## SIX MONTHLY COMPLIANCE REPORT

APRIL 2023 to SEPTEMBER 2023



# **Graphite India Limited**

Village – Sagarbhanga, Taluk – Durgapur, District – Paschim Bardhaman, West Bengal – 713211

## COMPLIANCE STATUS REPORT ON ENVIRONMENTAL CLEARANCE

### **GRAPHITE INDIA LIMITED**

Village – Sagarbhanga, Taluk – Durgapur, District – Paschim Bardhaman, West Bengal – 713211

F. No.: EN/T-II-1/128/2021 date: 10/03/2023

#### I. Statutory compliance

| SI.  | Compliance conditions                           | : | Compliance status                        |
|------|---|---|--|
| i.   | The project proponent shall obtain forest       | : | The project proponent does not           |
|      | clearance under the provisions for Forest       |   | required forest clearance as the         |
|      | (Conservation) Act, 1986, in case of the        |   | expansion project is in the existing     |
|      | diversion of forest land for non-forest purpose |   | industrial land.                         |
|      | in the project.                                 |   |  |
| ii.  | The project proponent shall obtain clearance    | : | It is not applicable as the expansion    |
|      | from the National Board for Wildlife, if        |   | project is in the existing industrial    |
|      | applicable.                                     |   | land.                                    |
| iii. | The project proponent shall prepare a Site-     | : | Site-Specific Conservation Plan &        |
|      | Specific Conservation Plan & Wildlife           |   | Wildlife Management Plan does not        |
|      | Management Plan and approved by the Chief       |   | required for this project as there is no |
|      | Wildlife Warden. The recommendations of the     |   | Schedule I species present in the 10     |
|      | approved Site-Specific Conservation             |   | km radius of the project.                |
|      | Plan/Wildlife Management Plan shall be          |   |  |
|      | implemented in consultation with the State      |   |  |
|      | Forest Department. The implementation report    |   |  |
|      | shall be furnished along with the six-monthly   |   |  |
|      | compliance report. (in case of the presence of  |   |  |
|      | schedule-I species in the study area).          |   |  |

| SI.  | Compliance conditions                         | : | Compliance status                       |
|------|---|---|---|
| iv.  | The project proponent shall obtain Consent to | : | The project proponent has applied       |
|      | Establish/Operate under the provisions of Air |   | for Consent to Operate for expansion    |
|      | (Prevention & Control of Pollution) Act, 1981 |   | project. Consent to Establish has       |
|      | and the Water (Prevention & Control of        |   | been obtained. Consent to operate       |
|      | Pollution) Act, 1974 from the concerned State |   | for existing project are attached as    |
|      | Pollution Control Board Committee.            |   | Annexure – 1.                           |
| ٧.   | The project proponent shall obtain the        | : | There is no drawl of ground water.      |
|      | necessary permission from the Central         |   |   |
|      | Ground Water Authority, in case of drawl of   |   |   |
|      | ground water/ from the competent authority    |   |   |
|      | concerned in case of drawl of surface water   |   |   |
|      | required for the project.                     |   |   |
| vi.  | The project proponent shall obtain            | : | For existing Authorization under the    |
|      | authorization under the Hazardous and the     |   | Hazardous and the other Waste           |
|      | other Waste Management Rules, 2016 as         |   | Management Rules, 2016 has been         |
|      | amended from the time to time.                |   | obtained. See <b>Annexure - 2</b> . For |
|      |   |   | expansion part HW authorization will    |
|      |   |   | be applied after getting CTO.           |
| vii. | The company shall strictly comply with the    |   | The company will applicable rules       |
|      | rules and guidelines under Manufactures,      |   | and guidelines comply with the rules    |
|      | Storage and Import of Hazardous Chemicals     |   | and guidelines under Manufactures,      |
|      | (MSHIC) Rules, 1989 as amended time to        |   | Storage and Import of Hazardous         |
|      | time. All transportation of Hazardous         |   | Chemicals (MSHIC) Rules, 1989 as        |
|      | Chemicals shall be as per the Motor Vehicle   |   | amended time to time. All               |
|      | Act (MVA), 1989.                              |   | transportation of Hazardous             |
|      |   |   | Chemicals shall be as per the Motor     |
|      |   |   | Vehicle Act (MVA), 1989.                |
| ii.  | Air quality monitoring and preservation       |   |   |
| i.   | The project proponent shall install 24x7      | : | 24x7 continuous emission system at      |
|      | continuous emission system at process stacks  |   | 15 KTPA expansion project process       |
|      | to monitor stack emission with respect to     |   | stack to monitor stack emission with    |
|      | standards prescribed in Environment           |   | respect to standards prescribed in      |
|      | (Protection) Rules, 1986 and connected to     |   | Environment (Protection) Rules,         |
|      | SPCB and CPCB online serves and calibrate     |   | 1986 will be installed. Purchase        |

| SI.  | Compliance conditions   | : | Compliance status                          |
|------|---|---|--|
|      | these systems from time to time according to  |   | order issued and materials received        |
|      | equipment supplier specification through labs   |   | and in the process of installation.        |
|      | recognized under Environment (Protection)   |   | Purchase order is attached as              |
|      | Act, 1986 or NABL accredited laboratories.  |   | Annexure – 3.                              |
| ii.  | The project proponent shall monitor fugitive  | : | Fugitive emissions in the plant            |
|      | emissions in the plant premises at least once   |   | premises has been monitored.               |
|      | in every quarter through labs recognized under  |   | Reports are attached as <b>Annexure</b> –  |
|      | Environment (Protection) Act, 1986.   |   | 4.   |
| iii. | The project proponent shall install system to   | : | Continuous Ambient Air Quality             |
|      | carryout continuous Ambient Air Quality   |   | Monitoring will be installed. The          |
|      | Monitoring for common/criterion parameters  |   | project proponent has monitored            |
|      | relevant to the main pollutants released (e.g.  |   | Ambient Air Quality from NABL              |
|      | PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission,                           |   | accredited lab. Reports are attached       |
|      | and SO <sub>2</sub> , and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> |   | as <b>Annexure – 4</b> . Purchase order of |
|      | emission) within and outside the plant area at  |   | CAAQMS is attached as <b>Annexure</b>      |
|      | least at four locations (one within and three   |   | <b>– 3.</b>                                |
|      | outside the plant area at an angel of 102°  |   |  |
|      | each), covering upwind and downwind   |   |  |
|      | directions. (case to case basis small plants:   |   |  |
|      | Manual; Large plants: Continous).   |   |  |
| iv.  | The project proponent shall submit monthly  | : | The project proponent will submit          |
|      | summary report of continuous stack emission   |   | monthly summary continuous report          |
|      | and air quality monitoring and results of   |   | emission of 15 KTPA expansion              |
|      | manual monitoring of air quality/fugitive   |   | processes stack and air quality            |
|      | emissions to Regional Office of Ministry of   |   | monitoring and results of manual           |
|      | Environment, Forest & Climate Change / State  |   | monitoring of air quality/fugitive         |
|      | Environment Impact Assessment Authority   |   | emissions after installation to            |
|      | /State Pollution Control Board / Zonal office of  |   | Regional Office of Ministry of             |
|      | CPCB along with six-monthly monitoring  |   | Environment, Forest & Climate              |
|      | report.   |   | Change / State Environment Impact          |
|      |   |   | Assessment Authority /State                |
|      |   |   | Pollution Control Board / Zonal office     |
|      |   |   | of CPCB along with six-monthly             |

| SI.   | Compliance conditions                             | : | Compliance status                      |
|-------|---|---|--|
|       |   |   | monitoring report. Stack monitoring    |
|       |   |   | has been carried out. Reports are      |
|       |   |   | attached as <b>Annexure – 4</b> .      |
| v.    | Appropriate Air Pollution Control (APC)           | : | Appropriate Air Pollution Control      |
|       | system shall be provided for all the dust         |   | (APC) system has been provided for     |
|       | generating points including fugitive dust from    |   | 15 KTPA expansion project and also     |
|       | all vulnerable sources, so as to comply           |   | APC has been provided at all dust      |
|       | prescribed stack emission and fugitive            |   | generating points for existing units.  |
|       | emission standards.                               |   | Photograph has been attached as        |
|       |   |   | Annexure – 5.                          |
| vi.   | Sulphur content should not exceed 0.5% in the     | : | The unit does not use coal fired       |
|       | coal for use fired boilers to control particulate |   | boiler so this condition is not in     |
|       | emission within permissible limits (as            |   | project configuration.                 |
|       | applicable). The gaseous emissions shall be       |   |  |
|       | dispersed through stack of adequate height as     |   |  |
|       | per CPCB guidelines.                              |   |  |
| vii.  | The DG sets shall be equipped with suitable       |   | The DG sets has been equipped with     |
|       | pollution control devices and the adequate        |   | suitable pollution control devices and |
|       | stack height so that the emissions are in         |   | with the adequate stack height.        |
|       | conformity with the extant regulations and the    |   |  |
|       | guidelines in this regard.                        |   |  |
| viii. | The National Emission Standards for               |   | This condition is not in project       |
|       | Petroleum Oil Refinery issued by the              |   | configuration.                         |
|       | Ministry vide G.S.R. 186(E) dated 18th            |   |  |
|       | March, 2008 and G.S.R. 595(E) dated 21st          |   |  |
|       | August, 2009 as amended from time to time         |   |  |
|       | shall be  |   |  |
|       | followed.   |   |  |
| ix.   | The National Emission Standards for               |   | This condition is not in project       |
|       | Petrochemical (Basic & Intermediates) issued      |   | configuration.                         |
|       | by the Ministry vide G.S.R. 820 (E) dated 9th     |   |  |
|       | November, 2012 as amended time to time            |   |  |
|       | shall be followed.                                |   |  |
|       |   |   | i .                                    |

| SI.  | Compliance conditions                             | • | Compliance status                       |
|------|---|---|---|
| X.   | Storage of raw materials, coal etc. shall be      |   | Storage of raw materials are stored     |
|      | either stored in silos or in covered areas to     |   | in covered areas to prevent dust        |
|      | prevent dust pollution and other fugitive         |   | pollution and other fugitive            |
|      | emissions.  |   | emissions.                              |
| iii. | Water quality monitoring and preservation         | ı |   |
| i.   | The project proponent shall provide online        |   | Presently there is no discharge of      |
|      | continuous monitoring of effluent, the unit       |   | effluent of outside the plant. The unit |
|      | shall install web camera with night vision        |   | will install web camera with night      |
|      | capability and flow meters in the channel/        |   | vision capability and flow meters       |
|      | drain carrying effluent within the premises       |   | in the channel/ drain carrying          |
|      | (applicable in case of the projects achieving     |   | effluent within the premises.           |
|      | ZLD).   |   | Purchased has been attached as          |
|      |   |   | Annexure – 3.                           |
| ii.  | The project proponent shall monitor               |   | The condition is not in project         |
|      | regularly ground water quality at least twice     |   | configuration.                          |
|      | a year (pre and post monsoon) at sufficient       |   |   |
|      | numbers of piezometers/ sampling wells in the     |   |   |
|      | plant and adjacent areas through labs             |   |   |
|      | recognized under Environment (Protection)         |   |   |
|      | Act, 1986 and NABL accredited laboratories.       |   |   |
| iii. | The project proponent shall submit monthly        |   | Presently there is no discharge         |
|      | summary report of continuous effluent             |   | outside the plant. Manual monitoring    |
|      | monitoring and results of manual effluent         |   | of water quality has been attached      |
|      | testing and manual monitoring of ground           |   | as <b>Annexure – 4</b> and same will be |
|      | water quality to Regional Office of Ministry of   |   | submitted to Regional Office of         |
|      | Environment, Forests & Climate Change /           |   | Ministry of Environment, Forests &      |
|      | State Environment Impact Assessment               |   | Climate Change / State Environment      |
|      | Authority/Zonal office of CPCB/ State Pollution   |   | Impact Assessment Authority/Zonal       |
|      | Control Board along with six-monthly              |   | office of CPCB/ State Pollution         |
|      | monitoring report.                                |   | Control Board along with six-monthly    |
|      | _ ·   |   | monitoring report.                      |
| iv.  | The effluent discharge shall conform to the       |   | The effluent discharge conforms to      |
|      | standards prescribed under the Environment        |   | the standards prescribed under the      |
|      | (Protection) Rules, 1986, or as specified by the  |   | Environment (Protection) Rules,         |
|      | 1 Totoblion) Traics, 1500, or as specified by the |   | Environment (Froteodori) itales,        |

| SI.   | Compliance conditions                          | : | Compliance status                      |
|-------|--|---|--|
|       | State Pollution Control Board while granting   |   | 1986, or as specified by the State     |
|       | Consent under the Air / Water Act, whichever   |   | Pollution Control Board while          |
|       | is more stringent.                             |   | granting Consent under the Air /       |
|       |  |   | Water Act, whichever is more           |
|       |  |   | stringent.                             |
| V.    | As already committed by the project            |   | Zero Liquid Discharge is ensured       |
|       | proponent, Zero Liquid Discharge shall be      |   | and no waste / treated water is        |
|       | ensured and no waste / treated water shall be  |   | discharged outside the premises.       |
|       | discharged outside the premises (applicable in |   |  |
|       | case of the projects achieving the ZLD).       |   |  |
| vi.   | Total fresh water requirement shall not exceed |   | Total fresh water requirement will not |
|       | the proposed quantity or as specified by the   |   | exceed the proposed quantity or as     |
|       | Committee. Prior permission shall be obtained  |   | specified by the Committee. If         |
|       | from the concerned regulatory authority /      |   | supplied water required prior          |
|       | SWID in this regard.                           |   | permission will be obtained from the   |
|       |  |   | concerned regulatory authority /       |
|       |  |   | SWID in this regard. The proponent     |
|       |  |   | is planning to reduce water            |
|       |  |   | requirement per day.                   |
| vii.  | Process effluent / any wastewater shall not be |   | Process effluent / any wastewater is   |
|       | allowed to mix with storm water. The storm     |   | not allowed to mix with storm water.   |
|       | water from the premises shall be collected and |   | The storm water from the premises      |
|       | discharged through a separate conveyance       |   | is collected and discharged through    |
|       | system.  |   | a separate conveyance system.          |
| viii. | The project proponent shall practice rainwater |   | The project proponent will practice    |
|       | harvesting to maximum possible extent.         |   | rainwater harvesting as proposed in    |
|       |  |   | EIA. Purchase order and                |
|       |  |   | photographs are attached as            |
|       |  |   | Annexure - 6. Photographs of           |
|       |  |   | existing rainwater harvesting tank is  |
|       |  |   | attached herewith.                     |
| ix.   | The project proponent shall make efforts to    |   | The project proponent has made         |
|       | minimise water consumption in the complex by   |   | efforts to minimize water              |

| SI.  | Compliance conditions                          | :        | Compliance status                        |
|------|--|----------|--|
|      | segregation of used water, practicing cascade  |          | consumption in the complex by            |
|      | use and by recycling treated water.            |          | segregation of used water and by         |
|      |  |          | recycling treated/filtered water.        |
| iv.  | Noise monitoring and prevention                |          |  |
| i.   | Acoustic enclosure shall be provided to DG set |          | Acoustic enclosure is provided to DG     |
|      | for controlling the noise pollution.           |          | set for controlling the noise pollution. |
| ii.  | The overall noise levels in and around the     |          | The overall noise levels in and          |
|      | plant area shall be kept well within the       |          | around the plant area is kept well       |
|      | standards by providing noise control           |          | within the standards by providing        |
|      | measures including acoustic hoods,             |          | noise control measures including         |
|      | silencers, enclosures etc. on all sources of   |          | acoustic hoods, silencers,               |
|      | noise generation.                              |          | enclosures etc. on all sources of        |
|      |  |          | noise generation.                        |
| iii. | The ambient noise levels should conform to     |          | The ambient noise levels conforms        |
|      | the standards prescribed under E(P)A Rules,    |          | to the standards prescribed under        |
|      | 1986 viz. 75 dB(A) during day time and 70      |          | E(P)A Rules, 1986 viz. 75 dB(A)          |
|      | dB(A) during night time.                       |          | during day time and 70 dB(A) during      |
|      |  |          | night time. Reports of existing plant    |
|      |  |          | are attached as <b>Annexure – 4</b> .    |
| v.   | Energy Conservation measures                   |          | are allaeries as rumenare                |
| i.   | The energy sources for lighting purposes shall |          | The energy sources for lighting          |
|      | preferably be LED based.                       |          | purposes is LED based.                   |
|      |  |          | Photographs are attached as              |
|      |  |          | Annexure – 19.                           |
| vi.  | Waste management                               | <u> </u> |  |
| i.   | Hazardous chemicals shall be stored in tanks,  |          | Hazardous chemicals if any will be       |
|      | tank farms, drums, carboys etc. Flame          |          | stored in as per statuary norms and      |
|      | arresters shall be provided on tank farm and   |          | precaution taken as regulatory           |
|      | the solvent transfer through pumps.            |          | requirement.                             |
|      |  |          |  |
| ii.  | Process organic residue and spent carbon, if   |          | Process organic residue is not           |
|      | any, shall be sent to cement industries. ETP   |          | generated. ETP sludge generated          |
|      | sludge, process inorganic & evaporation salt   |          | and is disposed off to the TSDF.         |
|      | shall be disposed off to the TSDF.             |          | ,  |
|      | 1  |          |  |

| SI.  | Compliance conditions                           | : | Compliance status                      |
|------|---|---|--|
| iii. | The company shall undertake waste               |   | The company has undertaken the         |
|      | minimization measures as below:-                |   | waste minimization measures as         |
|      | a. Metering and control of quantities of        |   | mentioned in the condition –           |
|      | active ingredients to minimize waste.           |   | a. Project proponent has               |
|      | b. Reuse of by-products from the process        |   | metering and control of                |
|      | as raw materials or as raw material             |   | quantities of active ingredients       |
|      | substitutes in other processes.                 |   | to minimize waste.                     |
|      | c. Use of automated filling to minimize         |   | b. By-products are reused or           |
|      | spillage.                                       |   | sold.                                  |
|      | d. Use of Close Feed system into batch          |   | c. Automated filling is used to        |
|      | reactors.                                       |   | minimized spillage.                    |
|      | e. Venting equipment through vapour             |   | d. The condition is not in project     |
|      | recovery system.                                |   | configuration.                         |
|      | f. Use of high pressure hoses for               |   | e. The condition is not in project     |
|      | equipment clearing to reduce                    |   | configuration.                         |
|      | wastewater generation.                          |   | f. The condition is not in project     |
|      |   |   | configuration.                         |
| vii. | Green Belt                                      | 1 |  |
| i.   | The green belt of 5-10 m width shall be         |   | The project proponent has              |
|      | developed in the total project area and also in |   | developed within project and colony    |
|      | the compensatory plantation area as proposed    |   | areas. 90% of 4332 sq. m. greenbelt    |
|      | by the project proponent. In this regard, O.M.  |   | area has been developed by             |
|      | issued by MoEF&CC vide F No 22-                 |   | planting 610 Plants till date, Mango – |
|      | 2312018.IA.III(Pt.) dated 31.10.2019 should     |   | 180 nos, Bakul – 128 nos, Radha        |
|      | be strictly complied with, as the project is    |   | Chura & Krishna Chura- 203 nos ,       |
|      | located within the municipal boundaries of      |   | Jack Fruit- 99 nos. rest are in        |
|      | Durgapur Municipal Corporation which is         |   | process of plantation. Green belt at   |
|      | declared as Severely Polluted Area. The         |   | Colony area is developed as per        |
|      | plantation should be done mainly along the      |   | proposal. The project proponent has    |
|      | plant periphery, in downward wind direction,    |   | followed the plantation plan           |
|      | and along road sides etc. and also in the       |   | submitted and uploaded in the          |
|      | colony areas. Selection of plant species shall  |   | PARIVESH portal. Photographs and       |
|      | be as per the CPCB guidelines in consultation   |   | layout of old colony and new colony    |
|      | with the State Forest Department. The project   |   | are attached as <b>Annexure – 7.</b>   |

| SI.   | Compliance conditions                           | : | Compliance status                       |
|-------|---|---|---|
|       | proponent should follow the plantation plan     |   |   |
|       | submitted and uploaded in the PARIVESH          |   |   |
|       | portal by them. In addition to greenbelt area   |   |   |
|       | within project site, 13,018 sq.m. of greenbelt  |   |   |
|       | area to be developed in the colony area, as     |   |   |
|       | proposed.                                       |   |   |
| viii. | Public hearing and Human health issues          |   |   |
| i.    | Emergency preparedness plan based on the        |   | Emergency preparedness plan             |
|       | Hazard identification and Risk Assessment       |   | based on the Hazard identification      |
|       | (HIRA) and Disaster Management Plan shall       |   | and Risk Assessment (HIRA) and          |
|       | be implemented.                                 |   | Disaster Management Plan is             |
|       |   |   | implemented.                            |
| ii.   | The unit shall make the arrangement for         |   | The unit has made the arrangement       |
|       | protection of possible fire hazards during      |   | for protection of fire hazards during   |
|       | manufacturing process in material handling.     |   | manufacturing process in material       |
|       | Fire fighting system shall be as per the norms. |   | handling. Fire fighting system is as    |
|       |   |   | per the norms.                          |
| iii.  | Training shall be imparted to all employees     |   | Training is imparted to all employees   |
|       | on safety and health aspects of chemicals       |   | on safety and health aspects to         |
|       | handling. Pre- employment and routine           |   | product handling.                       |
|       | periodical medical examinations: for all        |   | Routine periodical medical              |
|       | employees shall be undertaken on regular        |   | examinations for all employees is       |
|       | basis. Training to all employees on handling    |   | done on regular basis. Health           |
|       | of chemicals shall be imparted.                 |   | register is maintained. Health          |
|       | ·   |   | register and training photographs       |
|       |   |   | have been attached as <b>Annexure</b> – |
|       |   |   | 8.                                      |
| iv.   | The project proponent shall carry out heat      |   | This condition is not in project        |
|       | stress analysis for the workmen who work in     |   | configuration.                          |
|       | high temperature work zone and provide          |   |   |
|       | Personal Protection Equipment (PPE) as per      |   |   |
|       | the norms of Factory Act.                       |   |   |
|       | ·   |   | Drovinion was made for the              |
| V.    | Provision shall be made for the housing         |   | Provision was made for the              |
|       | of construction labour within the site with     |   | housing of construction labour          |

| SI.  | Compliance conditions   | • | Compliance status  |
|------|---|---|--|
|      | all necessary infrastructure and facilities   |   | within the site with all necessary   |
|      | such as fuel for cooking, mobile toilets,   |   | infrastructure and facilities. The   |
|      | mobile STP, safe drinking water, medical  |   | housing were be in the form of   |
|      | health care, creche etc. The housing may be   |   | temporary structures removed after   |
|      | in the form of temporary structures to be   |   | the completion of the project.   |
|      | removed after the completion of the project.  |   |  |
| vi.  | There shall be adequate space inside the plant  |   | There is adequate space inside the   |
|      | premises earmarked for parking of vehicles for  |   | plant premises earmarked for   |
|      | raw materials and finished products, and no   |   | parking of vehicles for raw materials  |
|      | parking to be allowed outside on public places.                                       |   | and finished products, and no  |
|      |   |   | parking is allowed outside on public   |
|      |   |   | places. Parking photographs are  |
|      |   |   | attached as <b>Annexure – 9</b> .  |
| vii. | Occupational health surveillance of the   |   | Occupational health surveillance of  |
|      | workers shall be done on a regular basis and  |   | the workers have been submited on  |
|      | records maintained as per the Factories Act.  |   | a regular basis and records  |
|      |   |   | maintained as per the Factories Act.   |
|      |   |   | ESI challan has been attached as   |
|      |   |   | Annexure – 10.   |
| ix.  | Environment Management Plan (EMP)   | I |  |
| i.   | The project proponent should submit the   |   | The project proponent has submited   |
|      | proposed EMP on a six monthly basis. The  |   | the proposed EMP on a six monthly  |
|      | Office Memorandum issued by the MoEF &  |   | basis. The Office Memorandum   |
|      | CC vide F. No. 22-6512017-IA.III dated  |   | issued by the MoEF & CC vide F.  |
|      | 30.09.2020 read with O.M. issued by   |   | No. 22-6512017-IA.III dated  |
|      | MoEF&CC vide F No. 22-2312018.IA.III(Pt.)   |   | 30.09.2020 read with O.M. issued   |
|      | dated 31.10.2019 should be strictly complied  |   | by MoEF&CC vide F No. 22-  |
|      |   |   |  |
|      | with, as the project is located within the  |   | 2312018.IA.III(Pt.) dated  |
|      | with, as the project is located within the municipal boundaries of Durgapur Municipal |   | 2312018.IA.III(Pt.) dated 31.10.2019 is strictly complied with,  |
|      |   |   | , ,  |
|      | municipal boundaries of Durgapur Municipal  |   | 31.10.2019 is strictly complied with,  |
|      | municipal boundaries of Durgapur Municipal Corporation which is declared as Severely  |   | 31.10.2019 is strictly complied with, as the project is located within the   |
|      | municipal boundaries of Durgapur Municipal Corporation which is declared as Severely  |   | 31.10.2019 is strictly complied with, as the project is located within the municipal boundaries of Durgapur                                |
|      | municipal boundaries of Durgapur Municipal Corporation which is declared as Severely  |   | 31.10.2019 is strictly complied with, as the project is located within the municipal boundaries of Durgapur Municipal Corporation which is |

| SI.  | Compliance conditions                           | : | Compliance status                       |
|------|---|---|---|
|      |   |   | 20 KLD kitchen waste water has          |
|      |   |   | been attached as <b>Annexure – 11.</b>  |
| ii.  | Need based activities for local people is part  |   | Need based activities for local         |
|      | of the EMP. Details of such activities are      |   | people is part of the EMP has been      |
|      | submitted by the project proponent is given in  |   | complied with and addressed in six      |
|      | Annexure – 3.                                   |   | monthly compliance report. See          |
|      |   |   | Annexure – 12.                          |
| iii. | The company shall have a well laid down         |   | The company has prepared                |
|      | environmental policy duly approve by the        |   | environment policy. The policy has      |
|      | Board of Directors. The environmental policy    |   | been attached as <b>Annexure – 13</b> . |
|      | should prescribe for standard operating         |   |   |
|      | procedures to have proper checks and            |   |   |
|      | balances and to bring into focus any            |   |   |
|      | infringements/ deviation / violation of the     |   |   |
|      | environmental/forest /wildlife norms /          |   |   |
|      | conditions. The company shall have              |   |   |
|      | defined system of reporting infringements /     |   |   |
|      | deviation / violation of the environmental      |   |   |
|      | /forest/ wildlife norms / conditions and /or    |   |   |
|      | shareholders/stake holders. The copy of the     |   |   |
|      | board resolution in this regard shall be        |   |   |
|      | submitted to the Ministry of Environment,       |   |   |
|      | Forests & Climate Change /State                 |   |   |
|      | Environment Impact Assessment Authority /       |   |   |
|      | State Pollution Control Board as a part of six- |   |   |
|      | monthly report.                                 |   |   |
| iv.  | A separate Environmental Cell both at the       |   | Project proponent already have          |
|      | project and company head quarter level, with    |   | environment management system           |
|      | qualified personnel shall be set up under the   |   | organizational structure which is       |
|      | control of Senior Executive, who will directly  |   | given in EIA.                           |
|      | to the head of the organization.                |   |   |
| V.   | Action plan for implementing EMP and            |   | Action taken for the EMP which is       |
|      | environmental conditions along with             |   | need based activity for local people    |

| SI. | Compliance conditions                            | : | Compliance status                      |
|-----|--|---|--|
|     | responsibility matrix of the company shall be    |   | will be complied with and details with |
|     | prepared and shall be duly approved by           |   | the same will be shared in six         |
|     | competent authority. The year wise funds         |   | monthly compliance report. See         |
|     | earmarked for environmental protection           |   | Annexure – 12.                         |
|     | measures shall be kept in separate account       |   |  |
|     | and not to be diverted for any other purpose.    |   |  |
|     | Year wise progress of implementation of          |   |  |
|     | action plan shall be reported to the Ministry of |   |  |
|     | Environment, Forests & Climate Change /          |   |  |
|     | State Environment Impact Assessment              |   |  |
|     | Authority/ State Pollution Control Board along   |   |  |
|     | with the Six Monthly Compliance Report.          |   |  |
| vi. | Self environmental audit shall be conducted      |   | Self environmental monitoring is       |
|     | annually. Every three years third party          |   | done on quarterly basis and reports    |
|     | environmental audit shall be carried out.        |   | of the same is submitted to WBPCB.     |
|     |  |   | A every year third party               |
|     |  |   | environmental management system        |
|     |  |   | audit carried out. Audit certificates  |
|     |  |   | are attached as <b>Annexure – 14.</b>  |
| X.  | Additional conditions                            |   |  |
| a.  | The project proponent should comply with the     |   | The project proponent complies with    |
|     | conditions mentioned in O.M. issued by           |   | the conditions mentioned in O.M.       |
|     | MoEF&CC vide F No. 22-2312018.IA.III(Pt.)        |   | issued by MoEF&CC vide F No. 22-       |
|     | dated 31.10.2019 as the project is located       |   | 2312018.IA.III(Pt.)dated 31.10.2019    |
|     | within the municipal boundaries of Durgapur      |   | as the project is located within the   |
|     | Municipal Corporation which is declared as       |   | municipal boundaries of Durgapur       |
|     | Severely Polluted Area.                          |   | Municipal Corporation which is         |
|     |  |   | declared as Severely Polluted Area.    |
| b.  | The project proponent shall install display      |   | The project proponent is in process    |
|     | board for display of all the environmental       |   | of installation of display board for   |
|     | parameters including sensor-based air, water     |   | display of relevant environmental      |
|     | and noise quality monitoring stations as         |   | parameters. Purchase order is          |
|     | proposed within their premises.                  |   | attached as <b>Annexure – 3.</b>       |
| xi. | Miscellaneous                                    |   |  |

| SI.  | Compliance conditions                            | : | Compliance status                     |
|------|--|---|---------------------------------------|
| i.   | The environmental clearance accorded shall       |   | The given condition is noted.         |
|      | be valid for a period of 10 years for the        |   |                                       |
|      | proposed project.                                |   |                                       |
| ii.  | The project proponent shall make public the      |   | The project proponent has made        |
|      | environmental clearance granted for-their        |   | public the environmental clearance    |
|      | project along with the environmental             |   | granted for-their project along with  |
|      | conditions and safeguards at their cost by       |   | the environmental conditions and      |
|      | prominently advertising it at least in two local |   | safeguards at their cost by           |
|      | newspapers of the District or State, of which    |   | prominently advertising in two local  |
|      | one shall be in the vernacular language within   |   | newspapers of the District or State,  |
|      | seven days and in addition this shall also be    |   | of which one shall be in the          |
|      | displayed in the project proponent's website     |   | vernacular language and is also       |
|      | permanently.                                     |   | displayed in the project proponent's  |
|      |  |   | website permanently. Advertisement    |
|      |  |   | and screenshot of the website copy    |
|      |  |   | of local newspaper has been           |
|      |  |   | attached as <b>Annexure – 15</b> .    |
| iii. | The copies of the environmental clearance        |   | The copies of the environmental       |
|      | shall be submitted by the project proponents to  |   | clearance is submitted by the project |
|      | the Heads of local bodies, Panchayats and        |   | proponents to the Heads of local      |
|      | Municipal Bodies in addition to the relevant     |   | bodies, Panchayats and Municipal      |
|      | offices of the Government who in tum has to      |   | Bodies in addition to the relevant    |
|      | display the same for 30 days from the date of    |   | offices of the Government. The        |
|      | receipt.   |   | intimation copy has been attached     |
|      |  |   | as <b>Annexure – 16.</b>              |
| iv.  | The project proponent shall upload the           |   | The project proponent has             |
|      | status of compliance of the stipulated           |   | uploaded the status of compliance     |
|      | environment clearance conditions, including      |   | of the stipulated environment         |
|      | results of monitored data on their website and   |   | clearance conditions, including       |
|      | update the same on half-yearly basis.            |   | results of monitored data on their    |
|      |  |   | website and update the same on        |
|      |  |   | half-yearly basis. Website            |

| SI. Compliance conditions : Compliance screenshot has been screens |                     |
|--|---------------------|
|  |                     |
| V The project propopent shall monitor the criteria. The project pro  |                     |
| The project proportent shall mornton the chieffal  | roponent has        |
| pollutants level namely; PM!0, S02, NOx monitored the criteria   | a pollutants level  |
| (ambient levels as well as stack emissions) or namely; PM!0, S02   | , NOx (ambient      |
| critical sectoral parameters, indicated for the levels as well as state  | ck emissions) or    |
| projects and display the same at a convenient critical sectoral  | parameters,         |
| location for disclosure to the public and put on indicated for the   | projects and        |
| the website of the company. displayed the same   | in the website      |
| through six month  | hly compliance      |
| report.  |                     |
| vi. The project proponent shall submit six- The project propone  | ent is submitting   |
| monthly reports on the status of the six-monthly reports   | on the status of    |
| compliance of the stipulated environmental the compliance of   | the stipulated      |
| conditions on the website of the Ministry of environmental cor   | nditions. Refer     |
| Environment, Forest and Climate Change at Annexure – 17.   |                     |
| environment clearance portal with a copy to  |                     |
| SEIAA/WBPCB.   |                     |
| vii. The project proponent shall submit the The project proponer   | nt has submitted    |
| environmental statement for each financial the environmental   | statement for       |
| year in Form-V to the concerned State each financial year i  | in Form-V to the    |
| Pollution Control Board as prescribed under; concerned State P   | Collution Control   |
| the Environment (Protection) Rules, 1986, as Board. Submission   | letter has been     |
| amended subsequently and put on the website attached as <b>Annexu</b>  | ıre – 18.           |
| of the company.  |                     |
| viii. The project proponent shall inform the The project proponer  | nt has obtain the   |
| Regional Office of the MoEF&CC along with CTE and CTO where  | e in the details of |
| SEIAA and WBPCB, the date of financial the project were  | being already       |
| closure and final approval of the project by the disclosed.  |                     |
| concerned authorities, commencing the land   |                     |
| development work and start of production   |                     |
| operation by the project.  |                     |

| SI.   | Compliance conditions                             | • | Compliance status                      |
|-------|---|---|--|
| ix.   | The project authorities must strictly adhere to   |   | The condition will be followed.        |
|       | the stipulations made by the State Pollution      |   |  |
|       | Control Board and the State Government.           |   |  |
| х.    | The project proponent shall abide by all the      |   | The project proponent will follow by   |
|       | commitments and recommendations made in           |   | all the commitments and                |
|       | the EIA / EMP report, commitment made             |   | recommendations made in the EIA /      |
|       | during Public Hearing and also that during        |   | EMP report, commitment made            |
|       | their presentation to the State Expert Appraisal  |   | during Public Hearing and also that    |
|       | Committee (SEAC).                                 |   | during their presentation to the State |
|       |   |   | Expert Appraisal Committee             |
|       |   |   | (SEAC).                                |
| xi.   | No further expansion or modifications in the      |   | No further expansion or                |
|       | plant shall be carried out without prior approval |   | modifications in the plant will be     |
|       | of the SEIAA/ MoEF&CC.                            |   | carried out without prior approval of  |
|       |   |   | the SEIAA/ MoEF&CC.                    |
| xii.  | Concealing factual data or submission of false    |   | The condition will be followed.        |
|       | / fabricated data may result in revocation of     |   |  |
|       | this environmental clearance and attract          |   |  |
|       | action under the provisions of Environment        |   |  |
|       | (Protection) Act, 1986.                           |   |  |
| xiii. | The SEIAA may revoke or suspend the               |   | The condition will be followed.        |
|       | clearance, if implementation of any of the        |   |  |
|       | above conditions is not satisfactory.             |   |  |
| xiv.  | The SEIAA reserves the right to stipulate         |   | The condition will be followed.        |
|       | additional conditions if found necessary. The     |   |  |
|       | Company in a time bound manner shall              |   |  |
|       | implement these conditions.                       |   |  |
| XV.   | The Regional Office of                            |   | The condition will be followed.        |
|       | MoEF&CC/SEIAA/WBPCB shall monitor                 |   |  |
|       | compliance of the stipulated conditions.          |   |  |
|       | The project authorities should extend full        |   |  |
|       | cooperation to the officer (s) of the             |   |  |
|       | Regional Office of                                |   |  |
|       | _   |   |  |

| SI.   | Compliance conditions                            | : | Compliance status               |
|-------|--|---|---------------------------------|
|       | MoEF&CC/SEIAA/WBPCB by furnishing the            |   |                                 |
|       | requisite data / information / monitoring        |   |                                 |
|       | reports,   |   |                                 |
| xvi.  | The above conditions shall be enforced, inter-   |   | The condition will be followed. |
|       | alia under the provisions of the Water           |   |                                 |
|       | (Prevention & Control of Pollution) Act, 1974,   |   |                                 |
|       | the Air (Prevention & Control of Pollution) Act, |   |                                 |
|       | 1981, the Environment (Protection) Act, 1986,    |   |                                 |
|       | Hazardous and Other Wastes (Management           |   |                                 |
|       | and Transboundary Movement) Rules, 2016          |   |                                 |
|       | and the Public Liability Insurance Act, 1991     |   |                                 |
|       | along with their amendments and Rules and        |   |                                 |
|       | any other orders passed by the Hon'ble           |   |                                 |
|       | Supreme Court of India / High Courts/NGT and     |   |                                 |
|       | any other Court of Law relating to the subject   |   |                                 |
|       | matter.  |   |                                 |
| xvii. | Any appeal against this EC shall lie with the    |   | The condition will be followed. |
|       | National Green Tribunal, if preferred, within a  |   |                                 |
|       | period of 30 days as prescribed under Section    |   |                                 |
|       | 16 ofthe National Green Tribunal Act, 2010.      |   |                                 |

## Annexure - 1



## GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST - BURDWAN : general\_dgp@graphiteindia.com E-MAIL





16.06.2023

Sub: Application for CTO i.e "Consent to Operate" of 15,000MT per annum Finished Capacity Expansion Project for Discharge of effluent, Water and Emission / Continuation of Emission under Sec.-25 & 26 of water (prevention and control of pollution Act-1974) and under Sec-21 of Air (Prevention and Control of Pollution Act-1981) at JL NO. 85 & 92, Vill - Sagarbhanga, Durgapur Dist - Paschim Bardhaman , West Bengal vide CTE no. NO172047 & EC Identification no. EC238020WB141674 (Proposal No. SIA/WB/IND2/79688/2021 ) along with the relevant annexures.

Dear Sir.

Please find the Application no. 3832565 dt: 07.05.2023 for the Consent to Operate of 15,000MT per annum Finished Capacity Expansion Project along with the following annexures.

1. Project Report Stating:

a. Project details within existing Plant Premises.

b. Manufacturing Process details with Flow Chart (Annexure -1 )

c. Technical report for the Raw material & estimated By-Product generated along with the Pollution control Equipment to be Installed (Annexure -2)

d. Zero Liquid Discharge Details (Annexure-3)

e. Technical specification of the Pollution Control Device (Annexure-4 Page 1) Description of plant and Machinenes installed.(Annexure -4 pg 2 )

Undertaking in Non Judicial Stamp paper by the Organizational Head.

3. Land Plot Schedule & Map

Xerox copy of the valid Consent to Establish for 15000MT /Annum Finished Capacity Expansion Project
 Compliance status of Consent to Establish for 15000MT /Annum Finished Capacity Expansion Project

6. Xerox Copy of the Environmental Clearance for proposed Expansion of Capacity from 52 KTFA to 67

7. Xerox copy of the last three valid Consent to Operate: 1, 52000 MT /Annum Plant, 2, Pitch Impregnation Unit #IV & 3, RH Baking Unit #2

8. Xerox copy valid Hazardous Authorization. Xerox copy of the last Factory license, GST Registration, Pan Card, Trade License & Holding Tax

10. Water Analysis report of Waste Water.

11. Summary of Existing Stack & Ambient Air Report

12. Plant layout Highlighting the Expansion in Red as per The Annexure-5

13. Payment Challan of Consent to Operate fee amount Rs. 232375/= DT.15.06.2023 for the period June 2023 to November 2023

Hope, you will find everything in order. Kindly acknowledge & oblige.

Thanking you,

Yours Faithfully,

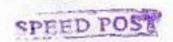
For Graphite India Limited.

Ranadeep-Chakraborty (Vice President Works)

Registered Office: 31, Chowringhee Road, Kolkata - 700016

CIN - L10101WB1974PLC094602 Ph.: +91-33-40029600 Fax: +91-33-40029676

E-mail Id : gilro@graphiteindia.com Website : www.graphiteindia.com



NOC NO172047

## WEST BENGAL POLLUTION CONTROL BOAI

Paribesh Bhawan 10A, Block-LA, Sector-III Bidhannagar, Kolkata-700 098

Mama No. 151 - 2N-08/2020(E)-Pt.-I

Dated 81.03,2023

From:

Member Secretary,

West Bengal Pollution Control Board

To: W/s. Graphite India Limited, segarbhangs, purgapur 713211, Dist. Paschim Bardhaman, West Bengal.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: 1 Your letter No. N11 Dated 24.03.2023

ii) Environmental Clearance issued by SELAA, WB, vide EC Identification No.EC23B020WB141674, File No.EN/T-II-i/128/2021 dated 10.63,2023

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s

India limited, Sagarbhanga, Lungapur-713211, Paschim Bardhaman, W.B.

for menufacturing elorage installation of one Baking Furnace (Richnammer Baking Furnace, RH 24 Section Unit=III) & released accessaries replacing one old

Restrowlating saking Furnace) for increase in Finished product capacity extrom 52 KTPA to 67 KTPA (sacitional production of 15000 MTPA)

at existing Unit at Sagarbhanga, Lungapur, Paschim Bardhaman, West this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point Bengal.

- The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS: 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
- Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
- You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent
  according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade
  effluent shall be discharged by you without prior consent of this Board.
- 4. All emission from your factory shall conform to the standards as laid down by this Board.
- No. emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
- No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ erected/re-erected without prior approval of this Board.

W. B. Pollution Control Board Doot, of Emfronment, Govt. of W.B.

#### NOC NO172047

- You shall comply with
  - Water (Prevention and Control of Pollution) Cess Act. 1977, if applicable. (ii)
  - Water (Prevention and Control of Pollution ) Cess Act, 1978, if applicable. (10)
  - Environment (Protection) Act, 1986 (iiii)
  - Environment (Protection) Rules, 1986 (iv)
  - Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000 (v)
  - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000 (vi)
  - Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms (vii) or Cell Rules, 1989
  - (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
  - The Public Liability Insurance Rules, 1991 and Amended Rules 1993 (ix)
  - Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable. (x)
  - Recycled Plastics Manufacture and Usage Rules 1999, if applicable and (xi)
  - Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable (xiii)
- You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

#### SPECIAL CONDITION:

See Annexures.

Gross capital investment - Rs.136.89 Crores.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Member Secretary West Bengal Pollution Control

Yours faithfully,

-2N-08/2020(E)-Pt.-I dd. 31.09.2023

Dated.....Ghief Engineer..... W. B. Pollution Control Board

Memo No Copy forwarded for information to :

- Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkatae 700 consment, Govt. of W.E. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S.
- 2. Building, Kolkata-700 001
- Guard file, West Bengal Pollution Control Board. 3.
- Environmental Engineer, VII/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./ 4.

Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly

Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)

Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan

10, Camac Street 2nd Floor Kolkata-700 017

Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City. Kolkata - 700 098

Block-05 at 40 Flats Complex Adjacent to Priyambada Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling

Housing Estate P.O.: Khanjanchak, P.S. Durgachak Haldia-721602

Dist.: Purba Medinipur

Satva Chowdhury Indoor Stadium Balurchar Bandh Road Malda-732101

Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor) Opposite Asansol Fire Station G.T. Road, Asansol-713 301

Member Secretary Engine West Bengal Pollution Control Board W. B. Pollution Control Board

Dept. of Environment, Govt. of W.B.

#### Annexure I to NOC Sl. No. - NO172047

Special Conditions issued to - M/s. Graphite India Limited (Expansion Project) at JL no. 85 & 92, VIII – Sagarbhanga, Durgapur, Dist – Paschim Brdhaman, West Bengal (Application no. 3484968)

#### Emission :-

| Sl. No. | Equipment   | APC device     | Stack Height (m)                               |
|---------|---|----------------|--|
| L       | Proposed Finishing unit<br>Electrode dust collector | Bag Filter     | 15   |
| 2       | Proposed Finishing unit<br>nipple dust collector    | Bag Filter     | 15   |
| 3       | Riedhammer Baking<br>Furnace                        | ESP            | 45   |
| 4       | Stock cleaning machine<br>dust collector            | Bag Filter     | 24   |
| 5       | Jaw Crusher machine dust<br>collector               | Beg filter     | 22   |
| 6       | 3X500 KVA DG Sets                                   | stacks of heig | stic enclosures with<br>tht 9m above DG<br>oom |

- Stacks should have sampling port, platform and ladder as per the Emission Regulation Part-III of CPCB. Particulate emission from all stacks shall be less than 30mg/Nm<sup>3</sup>.
- The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16<sup>th</sup> November, 2009 should be complied with.
- Dry fog system and water sprinklers to be installed to arrest fugitive emission.
- 24X7 continuous emission monitoring system at process stacks to be installed and as well as Continuous Ambient Air Quality Station for monitoring AAQ parameters to be installed.

#### Effluent :-

- Process All scrubber effluent to be treated in ETP. Treated effluent to be recycled.
- 2) 24X7 continuous effluent monitoring system to be installed.
- 3) Cooling water to be recycled after settling.
- 4) Domestic to be treated in STP.
- 5) ZLD system to be strictly followed.

#### Solid Waste : -

- Bag Filter dust to be reused in different processes.
- The proponent should abide by the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

#### General:-

- Noise Control Ambient noise level not to exceed the permissible limit.
- No additional machineries / equipment can be installed without prior permission from the State Board.
- No change in raw materials, products and production capacity should be made without prior permission from the State Board.
- 4) Plant layout should be as per EIA Report/DPR submitted during EC process.
- Proper lighting and proper pathway inside the factory premises should be constructed.
- Adequate measures to be adopted for control of fugitive emission.
- The unit should not start operation without obtaining 'Consent to Operate' from the State Board after complete installation of pollution control devices.
- 8) The unit should obtain permission from the District level authority for ground water abstraction, if any, as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005; before applying for 'Consent to Operate' to this Board.
- The unit should obtain Land Conversion Certificate from the competent authority, if applicable, before starting construction activities.
- 10) No construction is permitted on the land parcels, not under the possession of the industry.
- 11) At least 33% of the project area should be under green belt.

W. B. Pollution Control Board Dept. of Environment, Govt. of W.B.

#### Annexure I to NOC St. No. - NO172047

Special Conditions Issued to - M/s. Graphite India Limited (Expansion Project) at JL no. 85 & 92, Vill – Sagarbhanga, Durgapur, Dist – Paschim Brdhaman, West Bengal (Application no. 3484968)

12) Rain water harvesting must be done however recharging of harvested rain water is not allowed under any circumstances.

 All conditions as imposed by SEIAA, West Bengal through their Environmental Clearance issued vide EC Identification No. - EC23B020WB141674, File No. - EN/T-II-1/128/2021, Dated 10.03.2023 shall be strictly complied with.

14) Good house-keeping to be maintained.

15) This NOC is valid up to 31.03.2030 for setting up the unit.

Chief Engineer (EIM Cell)
West Bengal Pollution Control Board

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

#### WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg, No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number: CO110270

Memo Number: 05 - 27 - Co. p 12 0344 -

Date: 04-01-19.

#### Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 &

| Pollution) Act, 1981, as   |  | es and Orders made t                          |                                     |                                 |                     | and Control                             |
|--|--|---|-------------------------------------|---------------------------------|---------------------|---|
| <u>S</u>   | aphite                                       | LAIT  | TALC)                               | Linn                            | 4                   |   |
|  |  |   |                                     | A STATE OF THE PARTY OF         |                     |   |
| PrS - C  |  |   | Control of Control of Control       | - V                             |                     |   |
| 7132   |  |   |                                     |                                 |                     |   |
|  |  |   |                                     | (Detailed add                   | tress of the manufi | acturing unit)                          |
| a period from  | date of i                                    | 55 W.   |                                     | 30 11                           | 2023                | 000000000000000000000000000000000000000 |
| operate the industrial un<br>al unit, in accordance w<br>stance the quantity and q<br>c Table I & II of this con | th the conditions a<br>sality of liquid disc | is mentioned in the A<br>harge and gaseous er | Annexure to the<br>mission shall no | is consent let<br>of exceed the | ter provided on ar  | y day at any                            |
| Breach of the condi<br>plicant liable for prosec<br>revention and Control of                                     | ation under the pro                          |   |                                     |                                 |                     |   |

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of

this consent letter giving one month's notice to the applicant.

I the unit phould company with all the directions of the bound issued time to time and all the terms and conditions of the previous concent to operate vide no.

Coog2315 dated 09/11/2015. For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Bassistant Environmibeds) Engineer Durgapur Regional Office

West Bengal Pollution Contro. Dua. d

#### ANNEXURE

|              | Ctraphite India L  |                                       |  |  |  |  |  |
|--------------|--|---------------------------------------|--|--|--|--|--|
| for its unit | n Sagarthanga Dungatur.<br>Lachus Bardhaman-7132   | 1)                                    |  |  |  |  |  |
| Condition    |  |                                       |  |  |  |  |  |
|              | is Consent is valid for the manufacture of :-  |                                       |  |  |  |  |  |
| Sl. No.      | Name of major products and by-products   | Quantity manufactured per month       |  |  |  |  |  |
| 01           | Eloc trade   | 4333.33 MT                            |  |  |  |  |  |
| 02           | Pitch Coke   | 102-97 MT                             |  |  |  |  |  |
| 03           | Met Coke fines (60 freducts)   | 919.68 MT                             |  |  |  |  |  |
| 04           | Graphite Fines (Lo-Pomboets)   | 633.50 MT                             |  |  |  |  |  |
| 0.5          | Coal Tors Pitch from Esp / Ar-fre  | (b) A 28,52 MT                        |  |  |  |  |  |
| 06           | AND DESCRIPTION OF THE PARTY OF |                                       |  |  |  |  |  |
| 07           |  |                                       |  |  |  |  |  |
| 08           |  |                                       |  |  |  |  |  |
| 09           |  |                                       |  |  |  |  |  |
| 10           | Charles Consider and the   |                                       |  |  |  |  |  |
| 11           | THE PERSON NAMED IN  |                                       |  |  |  |  |  |
| 12           |  |                                       |  |  |  |  |  |
| 02. The A    | applicant shall remain responsible for quantity and quality  | of liquid effluent and air emissions. |  |  |  |  |  |
| 03. Daily    | discharge of industrial liquid effluent shall not exceed   | KL                                    |  |  |  |  |  |
|              | discharge of domestic liquid effluent shall not exceed   |                                       |  |  |  |  |  |
| 05. Daily    | discharge of mixed (industrial & domestic) liquid effluent   | shall not exceed 453 KL               |  |  |  |  |  |
| 06. The A    | discharge of mixed (industrial & domestic) liquid effluent   | Her Areadynant (place of discharge)   |  |  |  |  |  |
|              | gh nos. outlets / outfalls   |                                       |  |  |  |  |  |
|              | To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform<br>the Board and obtain prior permission of the Board in this effect.  |                                       |  |  |  |  |  |

 The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same

continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Aast. Env. Engr.)

Assistant Environmental Engine Durgapuc Regional Office West Bengal Pollution Control 200

| (3)   |
|---|
| Consent to Starbhile India Limited                    |
| 7 01 7 0 0 0  |
| for its unit at Sagare & house Purgapur P.S-Cake Over |
| Parchin bardhamon - 713211                            |
| 1 00 Cdana  |

Table-I

| Outlet Nature of |       | Parameters   | Standard   | Frequency<br>of effluent<br>sampling |  |
|------------------|-------|--|--|--------------------------------------|--|
| 1                | Mixed | pH   | Between: \$15th 9.0  | 1/2 /2000                            |  |
| 2                | Mixed | Total Suspended Solids   | Not to exceed : 160 mg/1.  | 0                                    |  |
| 3                | Mixed | Biochemical Oxygen Demand (3day at 27°C)   | Not to exceed: 3 = mg/1.   |                                      |  |
| 176              | 1000  | Chemical Oxygen Demand   | Not to exceed   250 mg/l.  |                                      |  |
|                  |       | Oil & Grease   | Not to exceed: 10 mg/1.  |                                      |  |
|                  |       |  |  |                                      |  |
|                  | _     |  |  |                                      |  |
|                  |       |  |  |                                      |  |
|                  |       | Attended to the same   | The state of the s |                                      |  |
|                  |       |  |  |                                      |  |
|                  |       | WEST BEN   | GAL  |                                      |  |
|                  |       | AAPS DE  |  |                                      |  |
|                  |       |  | The Other Land St.   |                                      |  |
|                  |       |  |  |                                      |  |
|                  |       |  |  |                                      |  |
|                  |       |  |  |                                      |  |
| - 3              |       |  |  |                                      |  |
|                  |       |  |  |                                      |  |
|                  |       |  | The second of  |                                      |  |
|                  |       |  | 100  |                                      |  |
|                  |       | The state of the s | of land  |                                      |  |

| 10. | Daily water | consumption | for the f | ollowing | purposes | should i | not exceed: | + |
|-----|-------------|-------------|-----------|----------|----------|----------|-------------|---|
|-----|-------------|-------------|-----------|----------|----------|----------|-------------|---|

| Industrial cooling, spraying in mine pits and boiler feed water  |        | 1568.00 KI |
|--|--------|------------|
| (Water used for gardening should be included in this category of | of use | e)         |

|        | Domestic purpose       |  | 30, 00 KI |
|--------|------------------------|--|-----------|
| N.T.O. | Transmission Lengthson |  |           |

| Processing whereby water gets polluted and the pollutants |    |
|---|----|
| are not easily biodegradable                              | →K |

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

| Consent to        | Ciral  | shite   | India  | Limita  |      |       |
|-------------------|--------|---------|--------|---------|------|-------|
| for its unit at . | Solone | honge   | Durgat | we P.S- | Ceke | Overs |
| Pac               | chin B | and how | 0000   | 3211    |      |       |

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

| Stack<br>No. | Stack Stack attached height do (sources and from control system. |          | Volume Velocity Nm³/hr. of gas emission  |       |              |               |    | Frequency<br>of emission<br>sampling |  |  |
|--------------|--|----------|--|-------|--------------|---------------|----|--------------------------------------|--|--|
|              | G.L.,<br>(in mts.)   | if any): | WES  | m/sec | SPM (mg/Nm²) | CO.<br>(%v/v) | AL |                                      |  |  |
| S-I          |  |          |  |       |              |               |    | III)<br>IIII)                        |  |  |
| S-2          |  | P.F.     | TO STATE OF THE PARTY OF THE PA |       | 5            |               | -  | est.                                 |  |  |
| S-3          |  | 1        | 000  | A     | NNE          | 大山            | Q  | F                                    |  |  |
| S-4          |  |          |  |       | ~            | P AND         | 7  | -                                    |  |  |
| S-5          |  |          | 1  | 16    | 37           | 97            |    |                                      |  |  |
| S-6          |  |          |  |       |              |               |    |                                      |  |  |
| S-7          |  |          |  |       |              |               |    |                                      |  |  |
| S-8          | 2  |          |  |       |              |               |    |                                      |  |  |
| S-9          |  |          |  |       |              |               |    |                                      |  |  |
| S-10         |  |          |  |       |              |               |    |                                      |  |  |

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Eurgapur Ragional Office West Bengal Pollution Control Co.

| Consent to Caphite India Linited                   |  |
|--|--|
| for its unit at Sagar Change Dungabur PS-Coke Over |  |
| Paralin Bardhamon 1 713211                         |  |

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:-

| St. No | Type of fuel | Quantity consumed per day | Fuel burning operation where the fuel is used |
|--------|--------------|---------------------------|---|
| 01     | CBM Gas      | 622576.75 W               | with Boiles Lattered wines                    |
| 02     | Furnace OF   | 492-66 KL/MO              | with Making turnace                           |
| 03     | HSD          |                           | Different O Doca sets                         |
| 04     |              |                           |   |
| 0.5    |              |                           |   |

 The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

| Type of waste | Quantity          | Treatment | Disposal |
|---------------|-------------------|-----------|----------|
| _             | All Property lies |           |          |
|               |                   |           |          |

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

| Time                            | Limit in dB(A) L <sub>eq</sub> |  |
|---------------------------------|--------------------------------|--|
| Day Time (06 a.m. to 09 p.m.)   | 75                             |  |
| Night Time (99 p.m. to 06 a.m.) | 70                             |  |

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./ St. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

| Consent to Graphite India Linited                    |    |
|--|----|
| for its unit at Songer Bhonga Dungatur P. S-Coke Ove | ΔΔ |
| Parclin Bardhaman - 713211                           |    |

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.

36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous

Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

This conditions of many the reserved and fact the same valid for the Additional Conditions of many the reserved and fact the same valid for the Additional Conditions of many the reserved for the same valid for the

West Bengal Pollution Control Dual

|                 | _        |        | (2)      |          |        |       |
|-----------------|----------|--------|----------|----------|--------|-------|
| Consent to      | Corap    | nite 1 | water    | - Livori | ted    |       |
| for its unit at | agonosho | nga, I | Duzgalov | v. P.S.  | - Coke | Overn |
| 0               |          |        | vow      |          |        |       |

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:-

| Sl. No | Type of fuel | Quantity consumed per day  | Fuel burning operation where the fuel is used |
|--------|--------------|--|---|
| 01     | CBM Gao      | A STATE OF THE STA | with Boiles delitered furnice                 |
| 0.2    | Furnace Oil  | 422-66 KL/Ma   | wth HBaking turnace                           |
| 0.3    | HSD          |  | Different O Do G Este                         |
| 04     | -            |  |   |
| 0.5    |              |  |   |

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

| Type of waste | Quantity | Treatment | Disposal |
|---------------|----------|-----------|----------|
|               |          |           |          |
|               |          |           |          |

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:

| Time vo                         | Limit in dB(A) L <sub>eq</sub> |
|---------------------------------|--------------------------------|
| Day Time (06 a.m. to 09 p.m.)   | 75                             |
| Night Time (09 p.m. to 06 a.m.) | 70                             |

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Assistant Environmental Engineer
Lurgapur Regionali Office
West Berigal Pollution Control Due d

Annexure I of Consent to Operate Sl. No. CO110270 of M/s. Graphite India Limited, located at Sagarbhanga, Durgapur, P. S- Coke Oven, Paschim Bardhaman-713211

| Stack<br>No. | Dedry He Dines of the control of the | Volume<br>Nm³/hr.  | Velocity of<br>gas<br>emission<br>m/sec | Concentrations of<br>parameters not to<br>exceed |                              | Frequency<br>of sampling |             |
|--------------|--|--|---|--|------------------------------|--------------------------|-------------|
|              |  |  |   |  | SPM<br>(mg/Nm <sup>3</sup> ) | CO (%                    |             |
| 1            | 30   | Mixture Fume Extractor (North) (Extrusion Dept.)               |   |  | 150                          | 1                        | Half yearly |
| 2            | 30   | Mixture Fume<br>Extractor (South)<br>(Extrusion Dept.)         |   |  | 150                          | 1                        | Half yearly |
| 3            | 30   | Cooler North<br>(Extrusion Dept.)                              |   |  | 150                          | 1                        | Half yearly |
| 4            | 30   | Cooler South<br>(Extrusion Dept.)                              |   |  | 150                          | 1                        | Half yearly |
| 5            | 30   | Fume Extractor (West<br>side) weigh floor<br>(Extrusion Dept.) |   |  | 150                          | 1                        | Half yearly |
| 6            | 7  | Raymond Mill Dust<br>Collector   Extrusion<br>Dept.)           |   |  | 150                          |                          | Half yearly |
| 7.           | 7.1  | Scrap System Dust<br>Collector (Extrusion<br>Dept.)            |   |  | 150                          |                          | Half yearly |
| 8            | 12   | Main Dust Collector<br>(Extrusion Dept.)                       |   |  | 150                          |                          | Half yearly |
| 9            | 10   | Baking Milling Dust<br>Collector                               |   |  | 150                          |                          | Half yearly |
| 10           | 30   | Bailing Furnace (Fce.<br>1 to 5 side)                          |   |  | 150                          | 1                        | Half yearly |
| 11           | 30   | Baking Furnace (Fce.<br>6 to 10 side)                          |   |  | 150                          | 1                        | Half yearly |
| 12           | 30   | Ried Hammer<br>Furnace (Baking<br>Dept.) (14 SECTION)          |   |  | 150                          | 1                        | Half yearly |
| 13           | 45   | Ried Hammer<br>Furnace (Baking<br>Dept.)(16 & 24<br>SECTION)   |   |  | 150                          | 1                        | Half yearly |
| 14           | 30.48  | P.I. UNIT 1<br>(THERMOPACK<br>STACK)                           |   |  | 150                          |                          | Half yearly |
| 15           | 30   | P.I. UNIT 1 (HGG<br>STACK)                                     |   |  | 150                          |                          | Half yearly |

| 16 | 30    | P.I. UNIT 2<br>(THERMOPACK<br>STACK)                        |   | 150                          |   | Half yearly |
|----|-------|---|---|------------------------------|---|-------------|
| 17 | 30    | P.I. UNIT 2 (HGG<br>STACK)                                  |   | 150                          |   | Half yearly |
| 18 | 10.67 | LWG # 3(MILLING)  |   | 150                          |   | Half yearly |
| 19 | 13    | Finishing Dust<br>Collector (North)<br>(Unit 1)             |   | 150                          |   | Half yearly |
| 20 | 15    | Finishing Dust<br>Collector (Unit 2)                        |   | 150                          |   | Half yearly |
| 21 | 9.75  | FINE SCREENING<br>BUST COLLECTOR                            |   | 150                          |   | Half yearly |
| 22 | 29,29 | Boiler (1.5 Ton &<br>2Ton) 2.0 Ton<br>Running               |   | 800 at 12 %<br>Co correction | 1 | Half yearly |
| 23 | 30    | Tunnel Kiln – 1 (Re-<br>baking Furnace)                     |   | 150                          | 1 | Half yearly |
| 24 | 13    | Finishing Unit - 3<br>(Dust Collector)                      |   | 150                          |   | Half yearly |
| 25 | 30    | P.I. Unit – 3 (HGG<br>Stack)                                |   | 150                          |   | Half yearly |
| 26 | 30    | Tunnel Kiln – 2 (Re-<br>baking Furnace)                     |   | 150                          |   | Half yearly |
| 27 | 30    | P.I. Unit – 3 (Thermo<br>pack Stack)                        |   | 150                          |   | Half yearly |
| 28 | 30    | New Extrusion Department Thermic Fluid Heater               | 0 | 150                          | 1 | Half yearly |
| 29 | 34    | New Extrusion (RICH<br>Dust Collector                       |   | 150                          |   | Half yearly |
| 30 | 34    | New Extrusion Main<br>Dust Collector                        |   | 150                          |   | Half yearly |
| 31 | 12.5  | New Extrusion<br>Raymond Mill Dust<br>Collector             |   | 150                          |   | Half yearly |
| 32 | 15    | New Extrusion Silo Dust Collector                           |   | 150                          |   | Half yearly |
| 33 | 8     | New Extrusion IRICH<br>(Trema) Scrubber<br>System           |   | 150                          | 1 | Half yearly |
| 34 | 18    | Acheson Dust<br>Collector                                   |   | 150                          |   | Half years  |
| 35 | 17    | New Extrusion Scrap<br>system Dust collector                |   | 150                          |   | Half yearl  |
| 36 | 15    | Finishing Unit – 3<br>(South Side) Nipple<br>Dust Collector |   | 150                          |   | Half yearl  |

,

| 37 | 11.58 | Finishing Unit – 2<br>Nipple line Dust<br>Collector | 150 | Haif yearly |
|----|-------|---|-----|-------------|
| 38 | 10    | R.H16 Stock<br>Cleaning Machine<br>Dust Collector   | 150 | Half yearly |
| 39 | 15    | P.12 Turning<br>Machine Dust<br>Collector           | 150 | Half yearly |
| 40 | 15    | P.L-3 Turning<br>Machine Dust<br>Collector          | 150 | Half yearly |

Rul

AEE & I/C Durgapur R. O, WBPCB

Assistant Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Dougt

Mr. Dhanuka Aug

## WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkata-700 098



Consent Letter Number : C0131904

Memo Number: 348 - 7/WPBD-Gut(408)/98 (Pt-VII) Date:...

Date: 14/12/2020

#### Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

| The West Bengal Pollution Control Board (here<br>26 of the Water (Prevention and Control of Pollution) A<br>of Pollution) Act, 1981, as amended and Rules and Or | inafter referred to as State Board) under the provisions of Section 25 & Act, 1974, as amended and Section 21 of the Air (Prevention and Control ders made thereunder, hereby grants its consent to:   |
|--|--|
|  | nited NGAL   |
|  | (Address of Regd. office/Head/Office/City Office)  |
| (hereinafter referred to as Applicant) for its unit located  | on existing factory primises   |
| Sagarbhanga Dwganna  | P.sCoke Oven, Dist-Paschin   |
| Burdwan, Pin-713211.   | TOPINAL SELECTION OF THE PROPERTY OF THE PROPE |
|  | (Detailed address of the manufacturing unit)   |
| for a period from date of issue  | <u>6 30/11/2023.</u>   |
|  | luent and to emit gaseous effluent from the premises/land of the indus-  |

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

Person Bureau Contract Robusto 100 Contract Cont

For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer
W. B. Poliution Control Board
Operation & Execution Cell

#### ANNEXURE

| Consent to Mls. Graphite India dimited                           |
|--|
| for its unit at existing factory premises Sagarbhanga, Dungapur, |
| P.S Coke Oven, Dist - Paschim Burdwan, Pin - 713241              |

#### Conditions:

01. This Consent is valid for the manufacture of :-

| Sl. No. | Name of major products and by-products   | Quantity manufactured per month |
|---------|--|---------------------------------|
| 01      | CFO for it's new Pitch   | Production of electrode         |
| 02      | Impregnation Unit (PI unit#1   | 1) will remain some as          |
| 03      | Pitch Impregnated, electrode   | accorded in last CFO            |
| 04      | is intermediate process of   | (SI. 20, CO1/0270) dt.          |
| 0.5     | Lotal finished papeluct  | 04/06/2019                      |
| 06      | 52000 MTPA)  |                                 |
| 07      | and the same of th | The second second               |
| 08      |  |                                 |
| 09      |  |                                 |
| 10      | WELL SHAP OF   | May Bary                        |
| 11      | VERNE SECTION OF   | 質問 医変え                          |
| 12      | COER VICEBIU AND   | IN ACTURAL STREET               |

| 02. | The Applicant shall remain resp  | ponsible for quantity and | quality of liquid efflue   | ent and air emissions. |
|-----|--|---------------------------|--|------------------------|
| 0.2 | and the state of t |                           | The state of the s |                        |

- Daily discharge of domestic liquid effluent shall not exceed as per existing facilit 04.
- Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed .....
- 06. The Applicant shall discharge liquid effluent to existing facility (place of discharge) through \_\_\_\_\_\_nos, outlets / outfalls,
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr/Sr. Env. Engr / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer W. B. Pollution Control Boarded...... Operation & Execution Cell

| Consent to Mls G | paphite India di | (3)<br>mited |   |
|------------------|------------------|--------------|---|
|                  | nbhanga, Dungar  |              | en, Dist-Paschin                        |
| Burdwan, 1       | Pin-713211       | -2           | *************************************** |

| à |  |  |
|---|--|--|
|   |  |  |
|   |  |  |

| Outlet<br>No. | Nature of effluent | Parameters   | Standard   | Frequency<br>of effluent<br>sampling |
|---------------|--------------------|--|--|--------------------------------------|
| 10            | Mixed              | pH   | Between: S.S to 9.0  | Half-Yearl                           |
|               |                    | Total Suspended Solids   | Not to exceed: 100 mg/1.   | marg-rease                           |
| - 4           |                    | Biochemical Oxygen Demand (3day at 27°C)   | Not to exceed: 30 mg/1.  |                                      |
| +             |                    | Chemical Oxygen Demand   | Not to exceed : 250 mg/1.  |                                      |
|               |                    | Oil & Grease   | Not to exceed: 10 mg/l.  |                                      |
|               |                    |  |  |                                      |
|               |                    |  |  |                                      |
|               |                    |  |  |                                      |
| _             |                    |  | THE RESERVE OF THE PARTY OF THE |                                      |
| _             |                    | THE PARTY IN CASE  | 001  |                                      |
|               |                    | VVESTBEIV  | LACI   |                                      |
| _             |                    |  |  |                                      |
|               |                    |  |  |                                      |
|               |                    |  |  |                                      |
| _             |                    |  |  |                                      |
| _             |                    | The state of the s |  |                                      |
|               |                    |  |  |                                      |
|               |                    |  |  |                                      |
|               |                    |  |  |                                      |
| _             |                    |  | III beautiful  |                                      |

| The Applicant falls in the | made thereunder and the Applicant shall comply with the |
|----------------------------|---|
|                            |   |

| 10. | D | aily water consumption for the following purposes should not en  | cceed :-  |
|-----|---|--|---|
|     |   | Industrial cooling, spraying in mine pits and boiler feed water<br>(Water used for gardening should be included in this category | as per existing facility                              |
| 9   | • | Domestic purpose   | - KL  |
|     |   | Processing whereby water gets polluted and the polluters   | eroccovaneconos, estrator y respectado escusionico-s- |

 Processing whereby water gets polluted and the pollutants are not easily biodegradable

are easily biodegradable

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer

W. B. Pollution Control Board
Operation & Execution Cell

Consent to MIS. Graphite India Limited.

for its unit at existing factory premises Egarbhanga, Durgapus,

P.S. - Coke Oven, Dist - Paschim Burdwan, Pin-713211

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

| Stack<br>No. | Stack<br>height<br>from<br>G.L.,<br>(in mts.) | Stack attached<br>to (sources and<br>control system.<br>if any): | Volume<br>Nm³/hr. | Velocity<br>of gas<br>emission<br>m/sec | Concentrations of parameters not to exceed |              |        |               | Frequency<br>of emission<br>sampling |
|--------------|---|--|-------------------|---|--|--------------|--------|---------------|--------------------------------------|
|              |   |  |                   |   | SPM<br>(mg/Nm³)                            | CO<br>(%v/v) | AL     |               |                                      |
| S-I          | 30.2  | P. I. Unity<br>(Thermopas<br>wet Scrubb                          |                   | with                                    | 0721                                       |              | nteres |               | Half Year                            |
| S-2          | 32.8  | P.D. Unit-<br>(Preheater   | system)           |   | 120  | No.          |        | Total Control | -do-                                 |
| S-3          | 8.5<br>(Sepanal                               | DiG. Sett  | 2x500<br>icendo   | KVA)<br>wre&                            | 120  | 1            |        | 1             | -do-                                 |
| S-4          | Stack)  | silencer.  | Vess :            |   |  |              | 57     |               |                                      |
| S-5          | _   |  | 1                 |   |  | Sales .      |        |               |                                      |
| S-6          |   |  |                   |   |  |              |        |               |                                      |
| S-7          |   |  |                   |   |  |              |        |               |                                      |
| S-8          |   |  |                   |   |  |              |        |               |                                      |
| S-9          |   |  |                   |   |  |              |        |               |                                      |
| S-10         |   |  |                   |   |  |              |        |               |                                      |

(Member Secretary/Chief Engr./ St. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

W. B. Pollution Control Board Operation & Execution Cell Consent to M.S. Graphite India Kimited.

for its unit at Saganhhauga, Dungapur, P.S. - Coke Oven, Dist-Paschin, Burdwan, Pin-713211

- 14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern :-

| SI, No | Type of fuel | Quantity consumed per day  | Fuel burning operation where the fuel is used |
|--------|--------------|----------------------------|---|
| 01     | CBM Gas      | 1,5,4000 m3/mouth          | 8. I Unit#4                                   |
| 02     |              | 7.                         | V. 2 UNIT 47 9                                |
| 03     |              |                            |   |
| 04     |              | All of the latest the same |   |
| 05     |              |                            |   |

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

| Type of waste    | Quantity   | Treatment  | Disposal                |  |
|------------------|------------|--|-------------------------|--|
| Pitch Condensate | 6 MT/ Year |  | to be disposed aff thro |  |
|                  |            | The state of the s | WBWML / Haldia          |  |

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:

| Time                            | Limit in dB(A) L <sub>eq</sub> |
|---------------------------------|--------------------------------|
| Day Time (06 a.m. to,09 p.m.)   | 75                             |
| Night Time (09 p.m. to 06 a.m.) | 70                             |

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Environmental Engineer

W. B. Pollution Control Boardtinued.....

Operation & Execution Cell

Consent to-MS. Graphite India dimited.

for its unit at Sagarbhanga, Durgapur, P.S.-Coke Oven, Dist-Paschim
Burdwan, Pin-713211

- The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure.

(Member Secretary/Chief Engr./ Sr. Env. Lingt. Enwignmental Engineer.)

W. B. Poliution Control Board Operation & Execution Cell

### Annexure to Consent Letter Number - CO131904

Additional Conditions issued M/s. Graphite India Limited at existing factory premises Sagarbhangaa India Limited, Durgapur, P.S-Coke Oven, Dist- Paschim Bardhaman, PIN-713211

- The unit should comply all the conditions mentioned in Consent to Establish (NOC) issued vide meo no.285-7/WPBD-Cont(408)/98 dated 27.10.2016 in favour of the industry for new Pitch Impregnation Unit(PI Unit#4) at existing factory premises by replacing of existing Pitch Impregnation Unit(PI #1).
- The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
- 3. This consent may be revoked at any time on violation of environmental norms.
- The unit shall comply the State Board direction issued vide memo no.1406-7/WPBD-Cont(408)/98(Part-VII) dated 02.12.2020.
- The unit shall demolish the existing Pitch Impregnation Unit(PI#1) immediately and submit the report of same before the State Board.
- This consent to Operate is valid for operation of new Pitch Impregnation Unit(PI Unit#4)
  Pitch Impregnated electrode is intermediate process of total finished product Electrode52000 MTPA will remain as existing production capacity at existing plant premises.

Environmental Engineer West Bengal Pollution Control Board

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

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## WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg No. - 10A, Block - LA, Sector-III Salt Lake City, Kolkatu-700 098



Mento Nominer 1302-F 12980-cont (408) 38 (pt. - 411).

## Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 &

26 of the Water (Prevention and Control of Pollution) Act, 1974, as appended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to . (hereinafter referred to 85 Applicant) for its unit located at ... P. 9 - Sogoo Brianga., Dwigstown, P.S- Cake Oven, Parchim Bandraman - 713211

(Detailed address of the manufactoring unit) for a period from 01/01/2022 6 30/11/2023

to operate the industrial unit and to discharge liquid effluent and to omit gascous effluent from the premises/land of the indusroal unit, in accordance with the conditions as mentioned in the Americans to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous excission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Epvironmental (Protection) Acr, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollition) Act, 1981.

The State Woord reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one shouth's notice to the applicant.



For and on behalf of the State Board (Monther Secretary Chief Engr./ Sr. Env. Lings. / Env. Ingr. / Appendix Engineer Office Environmental Engineer a policion Contral 800.

## ANNEXURE

| Conse   | ent 10    | Graphite India Limited  |
|---------|-----------|---|
| for its | s onit at | Graphite India Limited P.O. Sagarbhanga, Durgajour, P.S. Coke Oven. Parchim Bardhaman-713711  |
|         |           | Lachim Bardhaman 713711   |
|         | litions   |   |
| 01.     | This      | : Consent is valid for the minufacture of: Operation of New RH 24 section Baking  |
| SI.     | No.       | Name of major products and by-products Quantity manufactured per munth  |
| . (     | 11        |   |
| - (     | 12        |   |
| (       | 03        |   |
|         | 04        |   |
| (       | 05        | WESTBENGAL  |
| (       | 26        |   |
|         | 07        |   |
|         | 80        |   |
| (       | 09        |   |
|         | 10        |   |
|         | 11        |   |
|         | 12        |   |
| 02.     | The A     | pplicant shall remain responsible for quantity and quality of liquid offluent and air emissions.  |
| 03.     | Daily     | discharge of industrial liquid effluent shall not exceed  |
| 04.     | Daily     | discharge of dumestic liquid effluent shall not exceed  |
| 05.     | Daily     | discharge of mixed (industrial & domestic) liquid effluent shall not exceed   |
| 06.     | The $A_i$ | pplicans shall discharge liquid efficient to DMC Nutral (place of discharge) th 01(0.49-) nos outlets / outlalls.   |
| 07.     |           | ng into any altered or new outler/outfall or to change the place of discharge, the Applicant shall have to inform part and obtain prior permission of the Board in this effect.   |
| ÓN.     | waste     | pplicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid (sewage, sullage and liquid ciffment generated from canteen), and operate and maintain the same mousty so that the quality of final effluent conforms to the Sundard as given in Table-I in page 03. |

(Member Secretary/Chief Engr./ Sr. Env. Fing. / Piny. Engraphed Engr./ Sp. Env. Fing. (Piny. Engraphed Engr.) 30 Environment Region 2 (Party Sp. Combinued Party Sp. C

| Consent to Graphita India Limited  |
|--|
| Consent to The State Sta |
| for its unit at P.O. Sagar & hanga Durgapur P.S. Cake Oven, Parchim Bardhaman 713211   |
| The state of the s |

|  | 0- |  |
|--|----|--|
|  |    |  |

| Outlet<br>No. | Nature of effluent | Parameters                               | Standard                  | Frequency<br>of effluent<br>sampling |
|---------------|--------------------|--|---------------------------|--------------------------------------|
| 01            | Mixed              | pH                                       | Between: 5.5 +0 9.0       | 1                                    |
|               |                    | Total Suspended Solids                   | Not to exceed: / mm mg/1. | yearly                               |
|               |                    | Biochemical Oxygen Demand (3day at 27°C) | Not to exceed: 30 mg/l.   | 20                                   |
|               |                    | Chemical Oxygen Demand                   | Not to exceed: 250 mg/l.  | 1                                    |
| 1             |                    | Oil & Greage                             | Not to exceed: 10 mg/l,   | 7                                    |
|               |                    | WESTBEN                                  | GAL                       |                                      |
|               |                    |  |                           |                                      |
|               |                    |  |                           |                                      |
|               |                    |  |                           |                                      |

| 09. | The Applicant falls in the                            | 20407109           |                      | Water (Provention   |
|-----|---|--------------------|----------------------|---------------------|
|     | The Applicant falls in the                            | made thereboder as | nd the Applicant sha | all comply with the |
|     | provisions of the said Act and Rules made thereunder. |                    |                      |                     |

| 10 | Daily | water consumption | for the | following purposes | should not | exceed :- |
|----|-------|-------------------|---------|--------------------|------------|-----------|
|----|-------|-------------------|---------|--------------------|------------|-----------|

| • | Industrial cooling, spraying in mine puts and beiler feed water  | → 50.00 KI |
|---|--|------------|
|   | (Water used for gardening should be included in this category of | fluse)     |

|   |                  | (0.00 |
|---|------------------|-------|
| ٠ | Domestic purpose | •     |

- Processing whereby water gets polluted and the pollutants are easily biodegradable.
- Processing whereby water gets polluted and the pollutants are not easily biodegradable

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Coss as specified under Section 3 of the said Act.

(Member Secretary/Cheef Engr./ Se Kow Finger / Egypting Member Comboured.......

| Consent to Graphite India Limited   |
|---|
|   |
| for its unit of P.O- Sagar Change. Durgapur, P.S-Cake Over, Parchim Bardraman- 713211 |
| tacchim Bardhaman- 713211   |

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc.,
  and this quist be painted/displayed to faciliate identification.
- 13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-II

| Stack<br>No. | Steck<br>height<br>from      | Stack attached<br>do (sources and<br>control system. | Volume<br>Nm²/hr. | Velocity<br>of gas<br>emission<br>m/sec | Сореспі         | reed      | Frequency<br>of emission<br>sampling |   |   |        |
|--------------|------------------------------|--|-------------------|---|-----------------|-----------|--------------------------------------|---|---|--------|
|              | G1 <sub>n</sub><br>(in mts.) | (fany);  | WES               |   | SPM<br>(mg/Nm²) | CO (%n/v) | AL                                   |   |   |        |
| S-I          | 45m                          | 1x Rt 21 Sec<br>Baking Furn<br>(料理)                  | nc                |   | 150             | 1         |                                      |   |   | Jones  |
| S-2          | 30m                          | Stock Ste<br>Machine                                 | eniug _           |   | 150             | ,         |                                      | 2 |   | Jearly |
| S-3          | *11m                         | D. W DEF   | -                 | -                                       | 150             |           | -                                    |   | _ | Toords |
| S-4          | -                            |  |                   |   |                 | 1         | 7                                    |   |   |        |
| S-5          |                              |  |                   |   |                 | 200       |                                      |   |   |        |
| S-6          |                              |  |                   |   |                 |           |                                      |   |   |        |
| S-7          |                              |  |                   |   |                 |           |                                      |   |   |        |
| S-8          |                              |  |                   |   |                 |           |                                      |   |   |        |
| S-9          |                              |  |                   |   |                 |           |                                      | 1 | \ |        |
| S-10         |                              |  |                   |   |                 |           |                                      |   |   |        |

(Member Secretary/Chief, Lings:/ Sr. Env. Bugs. / Env. Eg.

Mast Bengal Pellering Control | 180st

| Consent to Graphite India Limited                           |
|---|
| for its unit it P.O. Sagarshanga, Durgobur, P.S. Coke Oven, |
| Parchim Bardhaman - 713211                                  |

- The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern:

| SI. No | Type of fuel | Quantity consumed per day | Fuel burning operation where the fuel is used |
|--------|--------------|---------------------------|---|
| 01     | CBM          | 87000 m3/month            | 1x RH 24 section Raking Farmach (#1           |
| 02     | HSD          |                           | 1x 500 KVA D.4 set                            |
| 03     |              |                           |   |
| 04     |              |                           |   |
| 05     |              |                           |   |

 The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified. helow :-

| Quantity | Treatment | Disposal |
|----------|-----------|----------|
|          |           |          |
|          |           |          |
|          | Quantity  | Quantity |

 The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

| Limit in dB(A) L <sub>eq</sub> |
|--------------------------------|
| 75                             |
| 70                             |
|                                |

- 18. The Applicant shall at all times maintain good bouse-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause muisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities. installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution. control devices.
- The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe. environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

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| Consens to Graphite India Limited  |  |
|--|--|
| for its mil at P. O. Sagarshanga Durgabux, P. S. Coke Over                             |  |
| for its milest P.O. Sagarshanga Durgabur P.S. Coke Over,<br>Parclim Bardhaman - 713211 |  |

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control sys-
- from the laboratory recognised of the West Bengal Pollition Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Buard.
- The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Roard's authorised agencies.
- The Applicant shall submit to the State Bourd by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required. under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable. time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- The Application shall farnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority,
- The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event fucluding natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noximis or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least. 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
- 36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.
  The Unit obsold Complia of the Spacial Conditions mentioned in the Additional Conditions Appearant to Consent Letter no. CO 107539 vide Memo 14. 415- de-Co-T/2)

0344 Jaked 22/11/2017.

(Member Fire retary/Chief Ergn.' Sr. Erw. Engr. / Env Engr. / Env Engr. /





### WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt, of West Bengal)
Paribesh Bhawan

Bldg. No. 10 A, Block-LA, Sector-III, Bidhan Nagar, Kolkata – 700 098

Tel: 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731 2335-0261 / 8212 / 8213 / 7428 / 5975

Fax: 0091 (033) 2335 6730 / 2813

Website: www.wbpcb.gov.in, e-mail: wbpcbnet@wbpcb.gov.in

Memo No. // 4 /2S (HW) -598/99-2000 (Pt-I)

Date: 16.06-2022

### FORM 2

Grant of Authorization under the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Ref.: Application authorization dated 30.07.2021 for management & handling of Hazardous & Other Waste (Management & Transboundary) Rules, 2016 and its amendment thereafter.

M/s. Graphite India Limited

Sagarbhanga, Durgapur, P.S.: Coke Oven, Paschim Bardhaman-713211 is hereby granted an authorisation for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal, or any other use of hazardous or other wastes or both on the Sagarbhanga, Durgapur, P.S.: Coke Oven, Paschim Bardhaman-713211.

### Details of Authorisation:

| SI.<br>no. | Category of Hazardous<br>Waste as per the Schedule<br>I, II and III of these rules | Authorised mode of disposal or recycling or utilization or co-processing etc. | Quantity<br>( MT/ per year) |
|------------|--|---|-----------------------------|
| 1,         | 5.1  | Recycling through authorized recyclers.*                                      | 13.97 KL                    |
| 2.         | 5.2  | Disposal to CHWTSDF. *  | 16.17                       |
| 3.         | 3.3  | Recycling through authorized recyclers.*                                      | 14.39 KL                    |
| 4.         | B1   | Disposal to CHWTSDF. *  | 5.34                        |
| 5.         | 33.1   | Recycling through authorized recyclers.*                                      | 1.55                        |
| 6.         | 35.1   | Recycling through authorized recyclers /<br>Disposal to CHWTSDF. *            | 214.90                      |
| 7.         | 35.3   | Disposal to CHWTSDF. *  | 3.88                        |

<sup>\*</sup> For detail refer to Specific Conditions.

- (1) Authorization shall be valid for a period upto 30.04.2026 with effect from the date of issue
- (2) The authorization is subject to the following general and specific conditions:

[Chief Engineer] West Bengal Pollution Control Board

W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

### A. General conditions of authorization:

- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
- The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- An application for the renewal of an authorisation shall be three months before the expiry of such authorisation.
- 13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- Annual return shall be filed by June 30<sup>th</sup> every year for the period ending 31st March of that year.

### B. Specific conditions:

- The unit shall store the hazardous wastes (category wise separately) under shade in an
  environment friendly safe manner within the premises at designated places and the
  unit shall not store hazardous waste on site for more than 90 days.
- Waste containing oil (5.2), ETP sludge (35.3) and discarded asbestos (B1) shall be disposed to the CHWTSDF through Manifest system (Form-10).
- Used oil (5.1), oily sludge (3.3), ESP tarry residue (35.1) and contaminated drums shall be sold through manifest system (Form 10) to the authorized recyclers having valid authorization of the State Pollution Control Board. During each sale, original Pass-book issued by SPCB to the authorized recyclers shall be endorsed mentioning

the quantity and copy of the same shall be kept as record. If not fit for recycling shall be sent to CHWTSDF facility with manifest system.

4. The unit shall submit copies of Form 10 to the State Board on a regular basis.

5. Transport of hazardous and other waste shall be in accordance with the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, guidelines issued by the Central Pollution Control Board (CPCB) and rules made under the Motor Vehicle's Act, 1988. The responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and this responsibility shall be clearly indicated in the Manifest.

 Records of hazardous waste generation, storage and disposal shall be maintained properly as form 3 of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, and shall be available to the inspecting officials of the State

Board during inspection.

 The unit shall update regularly the environmental information in Display Boards as per the order of the Hon'ble Supreme Court dated. 14.10.2003 in W.P.(C) NO.657 of 1995.

 Authorisation will be revoked in case of non-compliances with any of the above conditions.

M/s. Graphite India Limited Sagarbhanga, Durgapur, P.S.: Coke Oven, Paschim Bardhaman-713211

[Chief Engineer]
West Bengal Pollution Control Board
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.



Durgepur-713211, Dist. :- Paschim Bardhaman, West Bengal Phone :9670777399, 9670111899

E-mail: dgp\_purchase@graphiteindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

DOM/7600003322 Date 03.07.2023 216372 PO No Vandor Tal Not 9073313172 Date PO Rev No ENVIRO SYSTEMS & EQUIPMENTS Vendor's Ref Refer Text 34, AJAY NAGAR, PRIVATE ROAD. -Refer Text Our Ref

45 Days after receipt of materials Payment Terms. FOR GIL WORKS, DURGAPUR 700074 West Bengal KOLKATA

19AABFE8475E1Z9 PAN No : AABFE8475E GSTN No -MOU Qty Rate (INR) Description Sr No Mat No 1.000 2 949 545 00 C. Ambient Air Quality Monitoring System 70117660 HSN No/SAC Code - 9027 Delivery Schedule Total Quantity by 10.09.2023 1.000 276.521.00 PO 70117661 LED Display-4' X 4', Red Colour HSN No/SAC Code - 9827 Delivery Schedule Total Quantity by 10.09.2023 92,173,00 PC 1.000 Gas Cylinder for Calibration 70117662 HSN No/SAC Code - 9027 Delivery Schedule 10.09.2023 Total Quantity by PC 1.000 414.782.00 Porta Cabin with Accessories, 14'X14'X8' 70117663 HSN No/SAC Code - 9027 Delivery Schedule Total Quantity by 10.09.2023 1.000 1,108,100.00 70117664 Online Emission Monitoring System PG HSN No/SAC Code - 9027 Delivery Schedule 10.09.2023 Total Quantity by PC 1.000 115,218,00 Ultrasonic Flow Meter, Open Channel 6 70117665 HSN No/SAC Code - 9027 Delivery Schedule Total Quantity by 10.09.2023 3.000 115,220.00 PC: 70117868 PTZ IP Camera HSM No/SAC Code - 9027 Specification Refer Annexure enclosed herewith for detailed Technical Specifications, Scope of Supply & other terms, conditions etc. for above all items. Delivery Schedule

1.0. :3 CHOWRINGHEE ROAD, KOLKATA-700016 CIN.: 510101WB1974PLC094602 REGISTERED & H.

Telephone No.: +91-33-40029600 FAX: +91-33-40029676 E-mail ld : gilro@graphiteindia.com Website : www.graphileindia.com



Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal

Phone: 8670777399, 8670111899

E-mail: dgp\_purchase@graphileindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No : AAACC0457C

| PO No<br>PO No |               | OM/7600003322  |             | Date<br>Date   |             | 03.07 | 2023                                 |              |  |
|----------------|---------------|----------------|-------------|----------------|-------------|-------|--------------------------------------|--------------|--|
| Sr No          | Mat No        |                | Description |                |             | MOU   | Qty                                  | Rate (INR)   |  |
|                | Tota          | of Quantity by | 10.09.202   | 3              |             |       |                                      |              |  |
|                |               |                | EIETYTH     | REE LAKH Rupee | s ONLY      |       | Total Value :                        | 5,300,000.00 |  |
|                | Other Item Ch | arges          |             |                |             |       |                                      |              |  |
|                | Mat No.       | Discount       | CGST        | SGST/UTGST     | T/UTGST IGS |       | Tax Text                             |              |  |
| 21             | Common for AR |                | 9.00 %      | 9.00 %         |             |       | (GST Tax Credit (9% SGST 8<br>CGST)) |              |  |

### Terms and Condition

### Delivery Instructions

- Annexure enclosed herewith shall be referred and applicable which shall form a part of this Purchase Order.
- The above Equipments / Systems are required for Air Quality Monitoring System to be installed at RH#24-3 Section in Re-Baking Department inside our Durgapur Plant Premises.
- For G.I.L.'s internal reference only W.B.S. No. DGP-0009-RH-PM-06-M.

 The entire materials shall reach at our Durgapur Works within the stipulated time as mentioned in the front page of this Purchase Order.

However, in case of delay in delivery beyond mutually agreed delivery schedule due to fault not attributed to GIL, late delivery penalty @0.5% / week of the basic Purchase Order value or part thereof subject to 5% max, shall be applicable.

If delivery gets delay due to fault attributed to GIL, proportionate grace period in delivery schedule shall be considered only.

This shall be essence of contract. You shall strictly adhere to be delivery / work completion period agreed / committed. Further, our requirement being related to Pollution Control Board, it is critical in nature. If required by G.I.L., you shall try your level best to prepone delivery / work completion period to the maximum extent.

Transport and Insurance.

Transportation of Materials & necessary transit insurance shall be arranged & cost for same shall be borne by you, i.e. no extra cost to GIL. Hence, you are requested to dispatch the materials through your regular & reliable on Full load, Freight paid and Door Delivery basis.

- a. Please send scan copies of dispatch documents against each consignment immediately after dispatch from your Warks.
- b. Please be guided by Standard GST / IGST E-Waybill Rules & Regulations.

### Payment Instructions

a. 90% of basic value i.e. for Rs. 12,02,785.20 with applicable 100% GST Amount for CEMS and EQMS portion, i.e. of Rs. 13,36,428.00 shall be released immediate after supply at our Durgapur Works.

REGISTERED 4-H.O.: 31 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602

Telephone No.: +91-33-40029600 FAX: +91-33-40029676 E-mail ld : gilro@graphiteindia.com

Website: www.graphiteindia.com



Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal Phone :6670777399, 6670111899

E-mail:dgp\_purchase@graphiteindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No     | DOM/7600003322 | Date | 03.07.2023 |  |
|-----------|----------------|------|------------|--|
| PO No Rev |                | Date |            |  |

b. 90% of basic value i.e. for Rs. 33.59,719.80 with applicable 100% GST Amount for CAAQMS value. Le. of Rs. 37,33,022,00 shall be released immediate after inspection and acceptance of the same at your Delhi Office / Works and subject to submission of a Proforma Invoice of equal amount.

c. 10% of basic P.O. value, i.e. of Rs. shall be released immediate after successful Installation. Commissioning and handing over for regular usage etc. of the System and subject to submission of a Performance Bank Guarantee of equal amount valid for at least 12 months plus 01 month claim period from the date of handing over the System for regular usage.

#### Notes:

- Performance Bank Guarantee to be submitted by you, shall be as per the draft to be given by us in due. course of time.
- ii. Performance Bank Guarantee to be issued by any of the Nationalised Bank only.
- iii. Any type of Bank charges shall be to your A/c. i.e. no extra cost to G.I.L.
- iv. Statutory deductions, if any, shall be deducted by G.I.L. during release of your payment.
- The final payment shall be paid to you provided you have fulfilled all the obligations of rectifying defects, if any, during defect of liability period. If defects are not rectified by you in a reasonable time, G.I.L. will at their discretion to get the job done from any other vendor / contractor & the cost will be adjusted from your payable amount.
- vi. Full & final Settlement of the bill will be made only after the complete removal of man & machine from the
- vii. All Statutory formalities such as ESIC, PF etc. shall be completed by you to execute the work in our works for your workers / labours/ staff & compliance shall be made as per Statutory Rules & Act as applicable & all shall be at your cost (i.e. no extra cost to G.I.L.).

### General Instructions

- 1. Please acknowledge the receipt of this Purchase Order, signifying your acceptance of Terms and Conditions hereof.
- 2. Inward Delivery / Entry of Materials: Passage or entry all such materials as also other materials required in connection with proper execution of the job, into our Plant premises, shall duly follow standard inward delivery procedure including submission of List of materials on Company Letter-head / Challans, authorized by Project Department personnel and gate entered with Serial Number, Date and Signature of Security Personnel.

Clear distinction shall be made between Returnable and Non-Returnable class of materials and separate Challens containing all details of materials like Make / Brand, Description and Quantity shall be made out for different categories.

Only those materials which are entered as Returnable having a valid gate-stamped delivery challan, shall be allowed to taken-out of Plant premises, that too only after the completion of job.

### 3. NOTE:

- ALL INCOMING VEHICLES SHALL HAVE PUC CERTIFICATE AS PER MOTOR VEHICLES ACT.
- B: ALL INCOMING VEHICLES SHALL HAVE REGISTRATION & INSURANCE CERTIFICATES.
- THE DRIVERS OF ALL INCOMING VEHICLES SHALL POSSESS VALID DRIVING LICENCE.

REGISTERED IN LOT 31 CHOMRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602 Telephone No.: +91-33-40029600 FAX: +91-33-40029676

E-mail ld : gilro@graphiteindia.com

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Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal

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GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No     | DOM/7600003322 | Date | 03.07.2023 |  |
|-----------|----------------|------|------------|--|
| PO No Rev |                | Date |            |  |

 ALL INCOMING PLASTIC PACKING (EXCEPT-STRETCH WRAPPING POLYTHENE FILM) SHALL BE MORE THEN 50 MICRON

E. PLASTIC CARRY BAG shall not be less than 60 (GSM per square meter) or 240 microns in thickness.

F. ALL INCOMING TANKERS CARRYING HAZARDOUS MATERIALS SHALL HAVE TREM CARD WITH THE DRIVERS.

G. SUPPLIERS OF ALLTYPES OF BATTERIES MUST BUYBACK/TAKEBACK OLD/USED/REJECTED BATTERIES.

H. MATERIAL SAFETY DATA SHEET (MSDS) TO BE PROVIDED FOR ALL NEW (FIRST TIME SUPPLY) OF LUBRICANTS, CHEMICAL AND OTHER HAZAGURDOUS MATERIAL.

I. make sure that your personnel who will be coming for the JOB ARE covered under P.F. Esi / Mediclaim / Insurence.

J. Personnel who will be working, must have adequate Safety Precaution Like Helmet, Goggles / Spectacles. Face musk, etc as applicable for the Type of job.

K. For HANDLING HAZARDOUS material you must have Hazardous material handling Certificate from Government authority.

L. Vendor to get the Site clearance certified by DH (Bills also to be certified by DH mentioning Site Cleared)
M. Any Environmental damage occurring due to the services provided by the vendor will be penalized as deemed fit by the organization. (Concerned DH to Certify in Bills)

N. Vendor to get the job completion cerTfled by DH mentioning job completed within specified date / late by 07 days / late by 15days / late by more than a month.

O. PERSONNEL WORKING AT VENDOR SITE TO FOLLOW this GUIDELNES AT VENDOR PREMISES.

P. VENDOR TO TAKE WORK PERMIT FOR JOBS TO BE DONE INSIDE PLANT.

4. Registered Office Details:

31, Chowringhee Road, Kolkata 700 016

CIN: L10101WB1974PLC094602

Telephone No: 91 33 40029600: Fax No: 91 33 40029676

Email Id. gilro@graphiteindia.com Website: www.graphiteindia.com

5. Our Works Address & GST Details:

Works: M/s GRAPHITE INDIA LIMITED SAGARBHANGA COLONY DURGAPUR:-713211.

DIST: - BURDWAN.

GST No.: 19AAACC0457C1Z4.

Due to introduction of GST, the contract price shall be adjusted to take account of any increase or decrease in cost. Further, the Supplier/ Service Provider agrees to comply with all applicable GST laws, including GST acts, rules, regulations, procedures, circulars & instructions theraunder applicable in India from time to time and to ensure that such compliance is done within the time prescribed under such laws. Supplier/Service Provider should ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTN.

TOS will be deducted as per section 194 Q of income Tax Act - Effective from 01,07,2021 wherever applicable

REGISTERED & H.O.: 31 CHOWARMGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC084602

Telephone No.: +91-33-40029600 FAX: +91-33-40029676
E-mail Id: giro@graphiteindia.com Website: www.graphiteindia.com

## ANNEXURE

## TO BE READ IN CONJUNCTION WITH G.I.L.'S PURCHASE ORDER NO.-DOM/7600003322 DATED 03.07.2023

## PART-A

## **TECHNICAL & RELATED ASPECTS**

## 1) Vendor's / Supplier's Scope of Supply / Work:

Design, Engineering, Manufacture, Supply, Installation & Commissioning of complete set of Continuous Ambient Air Quality Monitoring System (CAAQMS), Online Emission Monitoring System (CEMS) & EQMS to be installed at our RH#24-3 Section in Graphite Department at our Durgapur Plant as per Technical Specification details etc. given hereinafter.

## 1.1) Technical Specifications:

a) Continuous Ambient Air Quality Monitoring System (CAAQMS), Sr. No.-1 of the Purchase Order:

USEPA Approved Make: "FPI"

### Parameter:

- PM10
- PM2.5
- SOx
- NOx

### Parameters Specification:

PM10 & PM2.5: PM-200 measures ambient particulate by using well applied beta ray attenuation technology. PM2.5& PM10 measurement can also be achieved by introducing corresponding cyclone.

### Technical Data:

Principle - Beta ray attenuation Performance Specification:

- Resolution 1 µg/m3,
- Lower Detectable Limit (24h) 1µg/m3,
- Reproducibility < 7%,</li>
- Range 1 mg/m3 to 10 mg/m3 Selectable.
- Sample Cycle 1~360 min,
- · Sample Flow Rate 16.7 L/min.
- Flow Accuracy ± 1%F.S.,
- Flow Stability ± 2% F. S.,
- Beta Source 14C (Carbon -14), 10µCi,
- · Beta Detector Type GM tube,
- · Filter Tape Glass fiber filter tape, 60 days of operation.

#### Environmental:

- Operating Temperature 5~40°C, = V
- Ambient Humidity 0-90% RH, noncondensing,
- Ambient Pressure 86-116 kPa 32,00,000.00 01 32,00,000.00.

### Physical and Electrical:

- Power Supply 220±10% VAC, 50±1Hz,
- Power Consumption 350W with pump and heater,
- Dimensions and Weight 310mm(H) x 430mm(VV) x 400mm(D), 25kg.

### Communication:

- Communication Port R\$232, R\$485,
- Digital I/O Two-digit input, four-digit output,
- Analog I/O Two (4-20) mA, 1-5V/0-5V output,
- Two (4-20) mA input,
- Other Optional serial printer and GPRS.

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### Ambient Sulphur Oxide (SOx) Analyser:

AQMS-500 Sulphur Oxide (SOx) Analyzer applies UV flucrescence technology recommended by US EPA as Federal reference method for trace level Sox measurement.

#### Technical Data:

- Standard Range Min: 0-100 ppb F.S. Max: 0-20 ppm F.S. (Selectable).
- Zero Noise < 0.4 ppb (RMS).</li>
- Span Noise < 2.5 ppb.</li>
- Lower Detectable limit < 0.5 ppb,</li>
- Zero Drift (24 hours) < 1 ppb.</li>
- Span Drift < 1% F.S.,</li>
- · Response Time < 80s (T90),
- · Precision < 1%.
- · Linearity < 1% F.S.,
- Sample Flow Rate 650 cc/min ±10%,
- Operating Temperature 20~30°C range, (per US EPA guidelines). Instrument may be safely operated over the range of 5~40°C.
- · Power Requirement 100~240 VAC, Converter applicable,
- Dimensions and Weight 178 mm(H) x 432mm(W) x 597mm(D).

### Key Features:

- . Compliance with US EPA reference method,
- Various outputs include Ethernet and RS232,
- User friendly interface with large screen,
- Continuous system diagnosis with alarm,
- · Multi-tasking software allows viewing test variables while operating.
- Temperature and pressure compensation,
- Internal data logging with 1 min to 365-day multiple averages,
- · Critical crifices provide flow stability.

### Ambient Oxides of Nitrogen (NO- NO2-NOx) Analyser:

AQMS- 600 nitrogen oxides (NO- NO -NO) Analyzer utilizes 2 X chemiluminescence technology indicated by US EPA as federal reference method for monitoring on multiple forms of nitrogen oxides.

### Technical Data:

- Standard Range Min: 0~100 ppb F.S. Max:
- + 0-20 ppm F.S. (Selectable),
- Zero Noise & It; 0.4 ppb (RMS),
- Span Noise & It; 2.5 ppb.
- Lower Detectable limit < 0.4 ppb.
- Zero Drift (24 hours) & It; 0.4 ppb,
- . Span Drift & It. 1% F.S.,
- · Response Time < 40s (T90),
- Precision & It; 1%,
- Linearity & It, 1% F.S.
- Sample Flow Rate 500 cc/min ±10%,
- Operating Temperature 20~30°C range (per US EPA guidelines). Instrument may be safely operated over the range of 5~40°C.
- Power Requirement 100~240 VAC, Converter applicable,
- Dimensions and Weight 178mm(H) x 432mm(W) x 609mm(D).

### Key Features:

- Permeation dryer on Ozone generator,
- Catalytic Ozone scrubber,
- Independent ranges for NOx, NO and NO2,
- · Compliance with US EPA reference method,
- Various outputs include ethernet andRS232,
- · User friendly interface with large screen,
- Continuous system diagnosis with alarm,
- Multi-tasking software allows viewing test variables while operating,
- Temperature and pressure compensation,
- Internal data logging with 1 min to365-day multiple averages.

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### b) CAAOM Station - Housing / Container, Sr. No.-2 of the Purchase Order:

Housing / Container for Continuous Ambient Air Quality Monitoring (CAAQM) Station including sampling System, internal fittings, instrument racks, electrical and gas line fittings, tools (Electrical & Mechanical) etc.

### Dimensions:

Inside length: 4200 mm, Inside width: 3500 mm, Inside height: 2500 mm,

- Split Air Conditioner (AC)-Split Air Conditioner (1 Ton Capacity 2 nos., 3STAR.), Refrigerant-R32, Make: "DAIKINS / equivalent",
- Online Uninterrupted Power Supply (UPS) Online UPS 5 KVA, Capacity, Make-"APC", Back-Up-02 Hrs., Battery Rating-26 AH X 08 Nos.,
- · Printer, Make: "CANON / equivalent " 01 No.,
- Monitor, Size: 18", LCD, Make-"LG/ equivalent" 01 No.,
- · Plug Points 5-6 Nos.,
- Wooden Table, Size: 3.5' X 2" 01 No.,
- Chair 02 Nos.

## c) Online Emission Monitoring System for SPM, Sox, and NOx., Sr. No.-3 of the Purchase Order:

Make: - Engineering and Environmental Solutions Pvt Ltd (Actual NOIR based technology),

### Specifications:

Product Name: CEMS (Continuous Emission Monitoring System) for stack Technology Used: NDIR (Non-Dispersive Infrared) SPM (Opacity Based Technology) Gas Parameters: SO2, NO2,

Remote Calibration Facility: Yes

| NDIR  |
|---|
| SPM 0 – 800mg/nM3<br>SO2 0-500mg/nM3<br>NO2 0-500mg/nM3   |
| 0.1ppm  |
| ±2% FS  |
| ±2% FS  |
| <90s  |
| 4-20mA output for Scada based System                      |
| SPCO output   |
| RS 232/RS485/4-20mA                                       |
| 50-200°C  |
| -10°C to 45°C   |
| IP65  |
| 230VAC, 50Hz  |
| Clean dry, oil free (dew point<-20degree) @ (0.5-0.7) MPa |
| 200 L/min for back flow                                   |
|   |

#### In Site Measurement:

- SOX, NOX, (NDIR)
- SPM Opacity Based
- Measurement accuracy is not affected by water and dust.
- Strong gas chamber, low operation and maintenance cost.
- Gas chamber made of Stainless Steel.
- Detector is connected to gas chamber via optical fibre which is convenient for replacement and achieves low maintenance cost.
- Detector is connected to gas chamber via optical fibre which is convenient for replacement and achieves low maintenance cost.
- This product adopts the most advanced Electro chemical technology and has high accuracy, low lowering limit and small temperature drift.

Achieves simultaneous measurements of Sox and NOx.

SAN O

- No optical moving parts, strong vibration resistance and measurement reliability.
- Modular design, good expansibility and convenient maintenance.
- Remote Calibration.

Note: M/s. Enviro System will provide entire Supply & Modern for data Transfer.

### d) Open Channel Ultrasonic Flow Meter, Sr. No.-4 of the Purchase Order:

- Voltage output DC 12V or 24V.
- Signal output: RS485/RS232; 4-20mA; 2 channel relay.
- Operating temperature: 0 50°C,
- Relative humidity: ≤ 85RH,
- Pressure: Atmospheric pressure.
- Level Range (meters),
- Range: 0 7 meters Height.
- GSM Based,
- Input Power: 228V 50Hz AC,
- · Power Adapter output 12V, 1A DC.
- Accuracy: 0.25 % F.S.
- Compensated temperature: -200°C to +850°C,
- Operating temperature: -400°C to +1250°C,
- Current consumption: 5Ma,
- Display: 16×2 LCD display.
- Enclosure: IP65,
- · Data Output: Microsoft Excel format,
- Clock: Real time internal clock.

## e) PTZ Camera with connectivity, Sr. No.-5 of the Purchase Order:

Make: - Suitable Standard Authorized make, Technical Specifications:

- Professional IP Pan/Tilt/Zoom speed dome, simple setup, IR-Cut 450ft night vision,
- 3MP High Resolution, PALNTSC, ONVIF support,
- PTZ Speed: 90 degrees vertical, 360 degrees Endless horizontal.

### DMD Display Board Environmental Monitoring, Sr. No.-6 of the Purchase Order;

LED Display Board Size: 4 Ft. x 4 Ft. Make: EESPL, Model: EESPL-DMD-01,

### Specification:

- . Type: Indoor / outdoor Display Board,
- Power Supply: 100-240 VAG,
- Special Features: Android App based,
- LED Display Board: 4 Ft. (Height.) x 4 Ft. (Width) x 4 Inches (Depth). Diagonally: 5.66ft. //14.37inch.
- · Digit Height: 6 inches. (Large size fonts also supported),
- LED DOT Pitch: 10mm. (p10).
- · Visibility: 20 -30 Mtrs.,
- + Application: Outdoor. All weather waterproof IP66,
- · Colour of display: RED,
- Display Type: Static/Scrolling/Flashing,
- Android App based Interface Software: Included.
- Android App features: Update Stock Data / Production data / Safety Dashboard on display board through Mobile App.,
- · Only viewing option for permitted persons,
- · Maintain log of stock data with date and time stamp,
- Admin login for user management and viewing / printing of reports,
- · Power supply: 220 Valts 5 Amps.,
- . Data Communication Protocol with Display Unit: WI-Fi,
- Make; ECPL. Model: ECPL/p10/4x4/RED.

Note: The Technical details of the above System should meet the EC / CTE requirements positively.

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## 2) Installation, Commissioning etc. of the above System:

2.1) You shall depute your competent person / s along with required Tools & Tackles etc. for Installation, Commissioning and Establishing Satisfactory Performance Trial of the System at our Durgapur Works. Required To & Fro Conveyance, Pocket Expenses, Incidental Charges etc., if any, of your Experts, Transportation charges for the required Tools & Tackles etc. shall be arranged and cost for the same shall be borne by you, i.e., no extra cost to GIL. However, Local Boarding, Lodging, Conveyance shall be arranged at our own cost.

### 2.2) Statutory Requirements:

- a) All Statutory formalities such as ESIC, PF etc. shall be completed by you to execute the work in our works for your workers / labors / staff / experts & compliance shall be made as per Statutory Rules & Act as applicable & all shall be at your own cost, i.e. no extra cost to GIL.
- b) You will take all safety precautions as per latest relevant factory Act, Rules etc, and it will be taken granted that You shall indemnified M/s G.I.L. from any liabilities arising out of non-compliance of any Statutory provisions & from any mishap & / or accident while working at the site, if unfortunately occurred you shall be totally responsible for the consequences & liabilities arising in case of any mishap occurring to your employees; your sub-Contractor's employees while working in M/s G.I.L 's plant including liabilities arising to M/s G.I.L in this respect.

### Notes:

- i) During Installation, requirement of any spare, if any, shall be taken care by you at no extra cost to GIL.
- ii) After Successful Trial Run of the System, if Training if System Training of our Engineers are required, you will have to provide the same at free of all costs to GIL.

## 3) Exclusions / GIL's Scope of Supply / Work:

- Any type of Electrical / Civil / Structural / Fabrication Work,
- ii. UPS Power Supply,
- iii. Analyzer Room for CEMS near to the Stack,
- iv. Compressed Dry Air line to the Stack,
- v. 4C X 1 Sq. mm Cable from the sampling point to Analyzer Room.
- vi. Internet Connection.

## 4) Certificates:

Manufacturer Routine Test Certificate for the materials shall be provided along with the Supply / Invoice. Otherwise, GIL may not be in a position to release your payment.

## PART - B

## SALIENT COMMERCIAL TERMS & CONDITIONS

## 1) Price:

Price per unit mentioned in the main P.O shall be firm till completion of entire supply / work to G.I.L.'s satisfaction.

## 2) Packing Mode and Packing & Forwarding Charges:

- a) All materials shall be supplied in properly packed condition in wooden boxes and properly supported & tied up to the truck / vehicle in a way so that slippage etc. do not take place which may cause damage to the item / items.
- b) All small & delicate items including electrical & instruments etc. must also be packed properly such as wrapping with polyethylene & then putting them inside wooden boxes or crates.
- c) You shall provide us a separate packing list for every consignment.
- d) Charges for the same, i.e. Packing & Forwarding Charges for the Consignment / s is / are included in the Unit \ Prices as mention in the main Purchase Order.



### 3) GST:

GST shall be paid extra as applicable at the time of dispatch of Materials. However, present applicable status is given below:

GST - Extra @18%

GST % mentioned in the P.O. are based on "present applicable rates". However, the same shall be payable at actual rates "as applicable" at the time of dispatch of material subject to submission of documentary evidences, if required and applicable. Further, this shall be considered only if contractual delivery / work completion period is mentioned.

Any claim / extra claim on account GST of whatsoever nature shall not be entertained by G.L. for whatsoever reasons after dispatch of the material as well as in case contractual delivery / work completion period is not maintained by you.

### 4) Others:

You shall provide 'as built' drawings & 'all other documents' at appropriate time after completion of satisfactory performance trials.

## 5) References:

- a. Your Offer Nos.; 42/ESE/Q/22-23 dated 03.06.2023 & 042/R1/ESE/Q/22-23 dated 26.06.2023. Subsequent across table Technical as well Commercial discussions, negotiations etc. had with you time to time including your visit at out H.O. on dated 30.06.2023.
- b. Our P.O. confirmation E-mail dated 03.07.2023.

## PART - C

## GENERAL TERMS AND CONDITIONS

## 1) Loading / Unloading:

Loading of material at your end shall be done by you at no extra cost to GIL.

Unloading of the material at our end shall be done by us at our own cost.

## 2) Inspection:

- a) Inspection, Testing etc. shall be done by G.L. / G.I.L.'s authorized representatives at your / your supplier's works prior to dispatch in stages and finally before dispatch and same shall be at their discretion. However, if you desire, inspection programme shall be decided jointly in advance so that stage wise inspection can be arranged. You shall give at least one week from prior information for inspection.
- b) G.I.L. shall be allowed for Inspection of material and review of progress randomly at any time during Execution of the Purchase order.
- c) Raw material and heat treatment (if required) as well as other special processes or material test Certificate shall be furnished during G.I.L.'s inspection. However, in case G.I.L. desires to test the material or processes independently, the same can be done by them at their discretion after discussions with you.
- d) All instruments, equipment, facilities, arrangements etc. required during inspection, testing etc. shall be arranged and provided by you at no extra cost. However, in case all performance criteria cannot be established at your end, the same shall be done for possible parameters only & balance shall be done at G.I.L.'s site. In this case, only general instruments can be provided by G.I.L. and any type of special instruments or you shall arrange equipment at no extra cost.
- e) Irrespective of inspection criteria given above, it will be sole responsibility of the vendor to fulfil the contractual obligations as per terms and conditions specified in G.I.L.'s purchase order and / or Annexure / s enclosed with the purchase order.
- f) Any repairs or rectifications for any type of defect / faults etc. shall not be carried by vendor without knowledge of G.I.L. G.I.L. may allow for such salvages provided that G.I.L. are convinced about the processes, procedures, methods type etc. to be followed for the repairs or rectifications are not expected to affect desired consistent performance and life of the item. However, final decision in such cases shall be solely at the discretion of G.I.L.

## 3) Warranty / Guarantee:

All the materials to be supplied shall be guaranteed against defective / faulty Material, Engineering Practice, Workmanship & changes / modifications carried, if any, etc. as well as for giving Satisfactory Performance &

Page 6 of 8

desired output Parameters on long term and consistent basis for a period of 12 months from the date of successful Commissioning and handing over of the System-s or Equipment-s for regular usage. In case any part or component or the entire Equipment / System is found defective / faulty during the Guarantee period, the same shall be rectified or item to be replaced with a new one by you at no extra cost to GIL within shortest possible time after intimation is given to you.

## 4) Painting:

a) Painting shall be included for the supply of material in your scope (as and where applicable) and the same shall be done as per Standard Engineering Practices followed for similar type of Equipment or Systems.

 b) Wherever applicable, special type of Paint System shall be used as per recommendations of the Paint Manufacturer.

## 5) Final Bills / Invoices etc.:

a) These shall be sent to GIL. Durgapur preferably along with the material / Delivery Challan. However, for any reason/s if the same is not possible, these shall be sent within 3 – 4 days period after dispatch of material.

b) Biss / Invoices shall be submitted at least in duplicate.

## 6) Spare Parts:

In case any spare parts are supplied along with the main equipment / s or system / s or in future, the same shall be identical in all respects to one fitted on the original equipment / s or system / s & G.I.L. should be in a position to use the same in as-it-is condition without any rectification, modifications etc. You shall ensure on these aspects & shall guarantee for the same till the time G.I.L. uses these spare parts.

## 7) Protection for all Electrical and Instrumentation Items:

All electrical and instrumentation items such as motors, panels, sensors, transmitters, controllers, indicators etc. or any other type of item/s which is / are likely to malfunction due to carbon or graphite dust shall be provided with IP-65 class of protection or any other equivalent protection as per national or international standard / s.

## 8) Bought out Items:

a) You shall give us a detailed list of all B.O items, if any used in the equipment/s or system/s, along with all related information such as make, model no., type, detailed specifications, product code No. etc. as applicable & required so that G.I.L. are in a position to ensure continuous / uninterrupted operation / usage of the equipment/s or system/s to be supplied by you and the same does not stop their regular production activities due to non availability of such items in time.

b) Makes of any B.O. items shall be reputed & renowned and shall be selected in such a way to give desired

satisfactory performance and life aspect on long term and consistent basis.

## 9) Verification of material received:

Materials dispatched by you and received at our end in duly packed condition shall not be opened by G.I.L. immediately after receiving and receipt for the same shall be given based on verification of packing (box, crates, loose) only for the identification given in your delivery challan and contents inside the packing shall not be checked by G.I.L. since the same is not advisable / practicable. However, it will be your sole responsibility to ensure that all materials required to fulfil the contractual obligations as per G.I.L.'s purchase order are provided / made available by you at the required point of time irrespective of whether assembly, erection, commissioning and testing will be done by you or by G.I.L.

## 10) Approval from Statutory Authorities:

Any type of Technical Assistance, Services, Expertise, discussions with Statutory Authorities, Documents or Compliances as per Statutory rules or Act, if required, at any point of time related or connected to the equipment / s or systems supplied by you shall be provided and given by you at no extra cost to GIL.

## Performance Aspects:

a) Responsibility for establishing of performance parameters and G.I.L.'s acceptance criteria as per P.O. terms and other contractual obligations shall be solely yours irrespective of whether Erection and / or Installation is done by you or by G.I.L.

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b) Performance testing shall be done till satisfactory / desired output parameters and performance criteria are established and systems equipments/ items handed over for regular usage / production. This will also include final load trials and fine tuning of the adjustments, wherever required and applicable.

## 12) Inward Delivery / Entry of Materials:

Passage or entry all such materials as also other materials required in connection with proper execution of the job, into our Plant premises, shall duly follow standard inward delivery procedure including submission of List of materials on Gompany Letter-head / Challans, authorized by Project Department personnel and gate entered with Serial Number, Date and Signature of Security Personnel.

Clear distinction shall be made between Returnable and Non-Returnable class of materials and separate Challans containing all details of materials like Make / Brand, Description and Quantity shall be made out for different categories.

Only those materials which are entered as Returnable having a valid gate-stamped delivery challan, shall be allowed to taken-out of Plant premises, that too only after the completion of job.

## 13) Jurisdiction:

Any dispute relating of this purchase order shall be deemed to have arisen in the local / state of plant and subject to adjudication by courts having jurisdiction over the location of unit. In case, the purchase order is issued from Kolkata, then in that event the courts in Kolkata, West Bengal would have jurisdiction.

## 14) Force Majeure Clause:

Seller shall neither be liable for loss, damage, delay nor be deemed to be in default for failure to perform when prevented from doing so by causes beyond its reasonable control including but not limited to acts of war (declared or undeclared), acts of God, fire, strike, labour difficulties, acts or omissions of any Governmental Authority or of Purchaser's compliance with Government regulations, insurrection or riots, embargo, delay or shortages in transportation or inability to obtain necessary labour, material, manufacturing facility from usual sources or from defects or delays in the performance of its suppliers or sub-contractors due to any of the foregoing enumerated causes. In the event of delay due to any such causes the date of delivery will be extended by period equal to the delay plus a reasonable time to resume production will be adjusted.



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## Annexure - 4







## TEST REPORT

### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India Ltd. |   |        |                           |      | Type of Industry   |     |    |     | : Graphite Unit |                         |     |                |
|-------------------------|---|---------------------|---|--------|---------------------------|------|--------------------|-----|----|-----|-----------------|-------------------------|-----|----------------|
| Address                 |   | P.O. – Sagarbhai    | P.O. – Sagarbhanga, Durgapur, Pin – 713211  |        |                           |      | Sampling Date      |     |    |     | :               | 03.08.2023              |     |                |
|                         |   |                     |   |        |                           |      | Period of Analysis |     |    | ;   | :               | 10.08.2023 - 11.08.2023 |     |                |
|                         |   |                     |   |        |                           |      | Date of Issue      |     |    |     | : 14.08.2023    |                         |     |                |
| Sampling Plan &         |   | ENV/SOP/01          | Deviation                                   | ı fror | n the Sampling Method and | Plan |                    | :   | No | Тур | pe o            | of Sample               | :   | Stack Emission |
| Procedure               |   |                     |   |        |                           |      |                    |     |    |     |                 |                         |     |                |
| Sample Condition        |   | Sealed Samp         | ealed   Sample ID No.   :   ENV/17/Aug./A/I |        |                           |      |                    | lo. | :  | EN  | V/1             | 17/Aug./TR(             | A)/ | T/23-24        |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Mixture Fume Extractor (North) (Stack - 1) (E | xtrusion 1 Dept.)           |     |    |     |
|------------------------------|---|---|-----------------------------|-----|----|-----|
| Shape of Stack               | : | Circular                                      | :                           | 30  | .0 |     |
| Materials of<br>Construction | : | M.S.  | :                           | 0.7 | 72 |     |
| Capacity                     | : | and the                                       | :                           | 26  | .0 |     |
| Emission Due to              | : | Due to Process Activity While Mixing          |                             |     |    |     |
| Fuel Used                    | : | Electrically Operated                         | Permanent Platform & Ladden | ſ   | :  | Yes |
| Working Fuel<br>Consumption  | : | N.A.  | Approx Print                |     |    |     |
| Pollution Control Device     | : | Nil   |                             |     |    |     |

### **B. RESULTS**

| SL.        | PARAMETERS                   | UNIT               | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|--------------------|--|---|----------|-------|
| <u>NO.</u> | Flue Gas Temperature         | о <b>С</b>         | IS : 11255 (Part 1)                        |   | 44.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg.          |  |   | 754.0    | N.A.  |
| 3.         |                              |                    | IC . 11255 (Dowt 2)                        |   | 14.97    | N.A.  |
|            | Velocity of Gas flow         | m/s                | IS : 11255 (Part 3)                        | · |          |       |
| 4.         | Quantity of Gas flow         | Nm³/hr.            | IS: 11255 (Part III)                       | : | 20441.53 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm <sup>3</sup> | IS 11255 (Part – 1) : 2019 & ASTM D 3685/D | : | 132.52   | 150.0 |
|            | Matter                       |                    | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |                    | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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**Authorised Signatory:** 

Dr. AJOY PAUL Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 \* Ph. 033 25792891/ 25497490 \* Fax : 033 25299141

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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | Graphite India Ltd.                        |      |                           |               |       |     |   | :                       | Graphite Unit |   |                |  |
|------------------|---|------------------|--|------|---------------------------|---------------|-------|-----|---|-------------------------|---------------|---|----------------|--|
| Industry         |   |                  |  |      |                           |               |       |     |   |                         |               |   |                |  |
| Address          | : | P.O. – Sagarbhar | P.O. – Sagarbhanga, Durgapur, Pin – 713211 |      |                           |               |       |     |   | :                       | 03.08.2023    |   |                |  |
|                  |   |                  | Period of Analysis                         |      |                           |               |       |     | : | 10.08.2023 - 11.08.2023 |               |   |                |  |
|                  |   |                  |  |      |                           | Date of Issue |       |     |   | :                       | 14.08.2023    | ; |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation                                  | fron | n the Sampling Method and | Plan          | :     | No  | T | ype                     | of Sample     | : | Stack Emission |  |
| Procedure        |   |                  |  |      |                           |               |       |     |   |                         |               |   |                |  |
| Sample Condition |   | Sealed Sampl     | e ID No.                                   | :    | ENV/17/Aug./A/II          | Repo          | rt No | . : | Е | ENV/17/Aug./TR(A)/      |               |   | /II/23-24      |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | Mixture Fume Extractor (South) (Stack - 2) | Extrusion 1 Dept.)                         |    |     |             |
|-----------------------------|---|--|--|----|-----|-------------|
| Shape of Stack              | : | Square                                     | :  | 30 | .0  |             |
| Materials of Construction   | : | M.S.                                       | Stack I.D. at sampling point (mtr.)        | :  | 0.4 | 106 x 0.406 |
| Capacity                    | : |  | Height of sampling port (mtr.) (from G.L.) | :  | 16  | .0          |
| Emission Due to             | : | Due to Process Activity While Mixing       |  |    |     |             |
| Fuel Used                   | : | Electrically Operated                      | Permanent Platform & Ladden                | •  | :   | Yes         |
| Working Fuel<br>Consumption | : | N.A.                                       |  |    |     |             |
| Pollution Control Device    | : | Nil  |  |    |     |             |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 48.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | - 4000                                     | : | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 11.90   | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 6510.01 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 45.11   | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year Tonocuperry Or Guilly Blauger

**Authorised Signatory:** 

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | Τ. | Craphita   | Graphite India Ltd. |             |        |                           |                    | fInc   | luctor |    |                | Graphite Unit           |   |                |  |
|------------------|----|------------|---------------------|-------------|--------|---------------------------|--------------------|--------|--------|----|----------------|-------------------------|---|----------------|--|
|                  |    | Grapinte   | Jinte maia Lta.     |             |        |                           | Type of Industry   |        |        |    | •              | Grapinte Onit           |   |                |  |
| Industry         |    |            |                     |             |        |                           |                    |        |        |    |                | Marie Control           |   |                |  |
| Address          | :  | P.O. – Sag | garbhai             | iga, Durgar | our, i | Pin – 713211              | Sampling Date      |        |        |    | :              | 03.08.2023              |   |                |  |
|                  |    |            |                     |             |        |                           | Period of Analysis |        |        |    | :              | 10.08.2023 - 11.08.2023 |   |                |  |
|                  |    |            |                     |             |        |                           | Date o             | f Issı | ıe     |    | :              | 14.08.2023              |   |                |  |
| Sampling Plan &  | :  | ENV/SOF    | P/01                | Deviation   | fro    | m the Sampling Method and | Plan               | :      | No     | Ту | <i>т</i> ре (  | of Sample               | : | Stack Emission |  |
| Procedure        |    |            |                     |             |        |                           |                    |        |        | ı  |                |                         |   |                |  |
| Sample Condition | :  | Sealed     | Sampl               | e ID No.    | :      | ENV/17/Aug./A/III         | Report             | No.    | :      | El | ENV/17/Aug./TR |                         |   | III/23-24      |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Cooler (North) (Extrusion – 1 Dept.) (Stack – 3) |                                     |    |     |     |
|------------------------------|---|--|-------------------------------------|----|-----|-----|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.) | :  | 30  | .0  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.) | :  | 0.5 | 550 |
| Capacity                     | : | - Les 2/0  | 15                                  | .0 |     |     |
| Emission Due to              | : | Due to Process Activity                          |                                     |    |     |     |
| Fuel Used                    | : | Electrically Operated                            | Permanent Platform & Ladder         |    | :   | Yes |
| Working Fuel<br>Consumption  | : | N.A.   |                                     |    |     |     |
| Pollution Control Device     | : | Nil  |                                     |    |     |     |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 40.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | 4000                                       | • | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 12.36   | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 9972.82 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 12.88   | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |         |       |
|            |                              |           | (VOI.11.07). 2017                          |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year T

**Authorised Signatory:** 

Dr. AJOY PAUL Quality Manager

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### FORMAT NO: ENV/FM/38

|                  |   | 1              |  |       |                           |         |       |               |    |                |                         |            |                |  |
|------------------|---|----------------|--|-------|---------------------------|---------|-------|---------------|----|----------------|-------------------------|------------|----------------|--|
| Name of the      | : | Graphite Indi  | a Ltd.                                     |       |                           | Type o  | f Inc | lustry        |    | :              | Graphite Unit           |            |                |  |
| Industry         |   | •              |  |       |                           |         |       |               |    |                |                         |            |                |  |
| Address          | : | P.O. – Sagarbl | P.O. – Sagarbhanga, Durgapur, Pin – 713211 |       |                           |         |       | Sampling Date |    |                |                         | 03.08.2023 |                |  |
|                  |   |                |  |       |                           |         |       | nalysi        | S  | ••             | 10.08.2023 - 11.08.2023 |            |                |  |
|                  |   |                |  |       |                           | Date of | Issi  | ıe            |    | •              | 14.08.2023              |            |                |  |
| Sampling Plan &  | : | ENV/SOP/01     | Deviation                                  | ı fro | m the Sampling Method and | Plan    | :     | No            | Ty | pe (           | of Sample               | :          | Stack Emission |  |
| Procedure        |   |                |  |       |                           |         |       |               |    |                |                         |            |                |  |
| Sample Condition | : | Sealed San     | ple ID No.                                 | :     | ENV/17/Aug./A/IV          | Report  | No.   | :             | EN | ENV/17/Aug./TR |                         |            | IV/23-24       |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Raymond Mill Dust Collector (Extru | sion 1 Dept.) (Stack - 6)                  |   |     |       |
|------------------------------|---|------------------------------------|--|---|-----|-------|
| Shape of Stack               | : | Square                             | Height of Stack (mtr.) (from G. L.)        | : | 16. | 0     |
| Materials of<br>Construction | : | M.S.                               | Stack I.D. at sampling point (mtr.)        | : | 0.3 | x 0.3 |
| Capacity                     | : | -                                  | Height of sampling port (mtr.) (from G.L.) | : |     |       |
| Emission Due to              | : | Due to Process Activity            |  |   |     |       |
| Fuel Used                    | : | Electrically Operated              | Permanent Platform & Ladden                | ſ | :   | Yes   |
| Working Fuel<br>Consumption  | : | N.A.                               | The self                                   |   |     |       |
| Pollution Control Device     | : | Bag Filter                         |  |   |     |       |

### **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |   | RESULTS   | LIMIT   |
|------------------------------|---|--|---|---|---|
| Flue Gas Temperature         | оС  | IS: 11255 (Part 1)   | a:  | 37.0  | N.A.  |
| Barometric Pressure          | mm of Hg.   | -  |   | 754.0   | N.A.  |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :   | 8.27  | N.A.  |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :   | 2556.40   | N.A.  |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D   | :   | 8.50  | 150.0   |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |   |   |   |
|                              |   | (Vol.11.07) : 2017   |   |   |   |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Mm of Hg.  Velocity of Gas flow  OC IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part 3)  IS: 11255 (Part III)  Concentration of Particulate  Matter  IS: 11255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Velocity of Gas flow  Mm's IS: 11255 (Part 3)  Unantity of Gas flow  Nm³/hr. IS: 11255 (Part III)  Concentration of Particulate  Matter  IS: 1255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 37.0         Barometric Pressure       mm of Hg.        : 754.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 8.27         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 2556.40         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 8.50         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year Tonocancery Dr. Confin Hange **Authorised Signatory:** 

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### FORMAT NO: ENV/FM/38

|                  |   | 1            |  |       |                           |         |       |               |    |                |                         |            |                |  |
|------------------|---|--------------|--|-------|---------------------------|---------|-------|---------------|----|----------------|-------------------------|------------|----------------|--|
| Name of the      | : | Graphite Ind | ia Ltd.                                    |       |                           | Type o  | f Inc | lustry        |    | :              | Graphite Unit           |            |                |  |
| Industry         |   | -            |  |       |                           |         |       |               |    |                |                         |            |                |  |
| Address          | : | P.O Sagarb   | P.O. – Sagarbhanga, Durgapur, Pin – 713211 |       |                           |         |       | Sampling Date |    |                |                         | 03.08.2023 |                |  |
|                  |   |              |  |       |                           |         |       | nalysi        | S  | :              | 10.08.2023 - 11.08.2023 |            |                |  |
|                  |   |              |  |       |                           | Date of | f Iss | ue            |    | :              | 14.08.2023              |            |                |  |
| Sampling Plan &  | : | ENV/SOP/01   | Deviatio                                   | n fro | m the Sampling Method and | Plan    | :     | No            | Ту | pe o           | of Sample               | :          | Stack Emission |  |
| Procedure        |   |              |  |       |                           |         |       |               |    |                |                         |            |                |  |
| Sample Condition | : | Sealed Sar   | nple ID No.                                | :     | ENV/17/Aug./A/V           | Report  | No.   | :             | EN | ENV/17/Aug./TR |                         |            | V/23-24        |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | :  | Scrap System Dust Collector (Extrusio | n 1 Dept.) (Stack - 7)                       |   |     |     |  |  |
|------------------------------|--|---------------------------------------|--|---|-----|-----|--|--|
| Shape of Stack               | Stack : Circular Height of Stack (mtr.) (from G. L.) |                                       |  |   |     |     |  |  |
| Materials of<br>Construction | :  | M.S.                                  | Stack I.D. at sampling point (mtr.)          | : | 0.6 |     |  |  |
| Capacity                     | :  | and the                               | Height of sampling port : (mtr.) (from G.L.) |   |     |     |  |  |
| Emission Due to              | :  | Due to Process Activity               |  |   |     |     |  |  |
| Fuel Used                    | :  | Electrically Operated                 | Permanent Platform & Ladde                   | r | :   | Yes |  |  |
| Working Fuel<br>Consumption  | :  | N.A.                                  | The said                                     |   |     |     |  |  |
| Pollution Control Device     | :  | Bag Filter                            |  |   |     |     |  |  |

### **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|-----|------------------------------|-----------|--|---|----------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 33.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. | -  | : | 754.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 17.75    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 17005.67 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 14.20    | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|     |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

ENDANA CONCURRENTY
Dr. Config Stanger

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | Type of Industry |        |                           |     |         | :    | Graphite Unit |                            |      |                         |   |                |  |
|-------------------------|---|------------------|------------------|--------|---------------------------|-----|---------|------|---------------|----------------------------|------|-------------------------|---|----------------|--|
|                         |   | DO C 11          | D                |        | D: 710011                 | C   | 1.      |      | _             | -                          |      | 02.00.2022              |   |                |  |
| Address                 | : | P.O. – Sagarbhar | nga, Durga       | our,   | Pin - /13211              | 58  | amplin  | ıg υ | ate           |                            | :    | 03.08.2023              |   |                |  |
|                         |   |                  |                  |        |                           |     |         |      |               |                            | :    | 10.08.2023 - 11.08.2023 |   |                |  |
|                         |   |                  |                  |        |                           | D   | ate of  | Issu | e             |                            |      | 14.08.2023              |   |                |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation        | ı froi | m the Sampling Method and | Pla | n       | :    | No            | Ту                         | pe o | of Sample               | : | Stack Emission |  |
| Procedure               |   |                  |                  |        |                           |     |         |      |               |                            |      |                         |   |                |  |
| Sample Condition        | : | Sealed Sampl     | e ID No.         | :      | ENV/17/Aug./A/VI          | R   | eport l | No.  | :             | ENV/17/Aug./TR(A)/VI/23-24 |      |                         |   | VI/23-24       |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Main Dust Collector (Extrusion 1 D | ept.) (Stack – 8)                            |    |     |     |  |  |
|------------------------------|---|------------------------------------|--|----|-----|-----|--|--|
| Shape of Stack               | : | Circular                           | :  | 22 | 2.0 |     |  |  |
| Materials of<br>Construction | : | M.S.                               | Stack I.D. at sampling point (mtr.)          | :  | 0.7 | 70  |  |  |
| Capacity                     | : | - Allen                            | Height of sampling port : (mtr.) (from G.L.) |    |     |     |  |  |
| Emission Due to              | : | Due to Process Activity            |  |    |     |     |  |  |
| Fuel Used                    | : | Electrically Operated              | Permanent Platform & Ladden                  | r  | :   | Yes |  |  |
| Working Fuel<br>Consumption  | : | N.A.                               | The set                                      |    |     |     |  |  |
| Pollution Control Device     | : | Bag Filter                         |  |    |     |     |  |  |

### **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |  | RESULTS  | LIMIT  |
|------------------------------|---|--|--|--|--|
| Flue Gas Temperature         | оС  | IS: 11255 (Part 1)   |  | 31.0   | N.A.   |
| Barometric Pressure          | mm of Hg.   | -  |  | 754.0  | N.A.   |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :  | 18.32  | N.A.   |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :  | 24646.29   | N.A.   |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 18.30  | 150.0  |
| Matter                       |   | 3685M-98 (reapproved 2005): Sec. 11  |  |  |  |
|                              |   | (Vol.11.07): 2017  |  |  |  |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Welocity of Gas flow Quantity of Gas flow Nm³/hr. Concentration of Particulate Matter  IS: 11255 (Part 3) IS: 11255 (Part III) IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature         °C         IS: 11255 (Part 1)         :           Barometric Pressure         mm of Hg.          :           Velocity of Gas flow         m/s         IS: 11255 (Part 3)         :           Quantity of Gas flow         Nm³/hr.         IS: 11255 (Part III)         :           Concentration of Particulate         mg/Nm³         IS 11255 (Part - 1): 2019 & ASTM D 3685/D         :           Matter         3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 31.0         Barometric Pressure       mm of Hg.        : 754.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 18.32         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 24646.29         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 18.30         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

New Tondoncery or Coulty Hange **Authorised Signatory:** 

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.       |        |                          |                                      | Type of Industry |   |    |    | :         | Graphite Unit           |   |                |  |
|------------------|---|------------------|------------|--------|--------------------------|--------------------------------------|------------------|---|----|----|-----------|-------------------------|---|----------------|--|
| Industry         |   |                  |            |        |                          |                                      |                  |   |    |    |           |                         |   |                |  |
| Address          | : | P.O. – Sagarbhai | nga, Durga | pur,   | Pin - 713211             |                                      | Sampling Date    |   |    |    |           | 04.08.2023              |   |                |  |
|                  |   |                  |            |        |                          |                                      |                  |   |    |    | •         | 10.08.2023 - 11.08.2023 |   |                |  |
|                  |   |                  |            |        |                          |                                      | Date of Issue    |   |    |    | ••        | 14.08.2023              | ; |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviatio   | n froi | m the Sampling Method an | d F                                  | Plan             | : | No | Ту | pe i      | of Sample               | : | Stack Emission |  |
| Procedure        |   |                  |            |        |                          |                                      |                  |   |    |    |           |                         |   |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.  | :      | ENV/17/Aug./A/VII        | Report No. : ENV/17/Aug./TR(A)/VII/2 |                  |   |    |    | VII/23-24 |                         |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | :    | Reid Hammer Furnace (Baking Furnace) (14 se | ection) (Stack No.12)                        |    |    |     |  |  |
|------------------------------|------|---|--|----|----|-----|--|--|
| Shape of Stack               | :    | :   | 30   | .0 |    |     |  |  |
| Materials of<br>Construction | r or |   |  |    |    |     |  |  |
| Capacity                     | :    | -m //h                                      | Height of sampling port : (mtr.) (from G.L.) |    |    |     |  |  |
| Emission Due to              | :    | Combustion of CBM and Baking of Electrode & | Nipple                                       |    |    |     |  |  |
| Fuel Used                    | :    | C.B.M                                       | Permanent Platform & Ladden                  | r  | 1: | Yes |  |  |
| Working Fuel<br>Consumption  | :    | 90 m³/hr.                                   |  |    |    |     |  |  |
| Pollution Control Device     | :    | E.S.P                                       |  |    |    |     |  |  |

### **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.                                |   | RESULTS  | LIMIT |
|-----|----------------------------------|----------------------|---|---|----------|-------|
| NO. | 6.3                              |                      |   |   |          |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)                        | : | 72.0     | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            |   |   | 754.0    | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)                        | : | 10.25    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)                      | : | 15825.52 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019                   | : | 64.50    | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98, | : | 53.80    | N.A.  |
|     |                                  |                      | Sec. 11 (Vol. 11.07) : 2017               |   |          |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019                           | : | 3.8      | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019                           | : | <1.0     | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D | : | 46.81    | 150.0 |
|     | Matter                           | J.                   | 3685M-98 (reapproved 2005) : Sec. 11      |   |          |       |
|     |                                  |                      | (Vol.11.07) : 2017                        |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



### ${\bf Authorised\ Signatory:}$



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L |            | Type of Industry |                           |               |           |      | :  | Graphite Unit                |                         |            |   |                |
|-------------------------|---|------------------|------------|------------------|---------------------------|---------------|-----------|------|----|------------------------------|-------------------------|------------|---|----------------|
| ,                       |   |                  |            |                  |                           | +-            |           | _    |    |                              |                         |            |   |                |
| Address                 | : | P.O. – Sagarbhai | ıga, Durga | pur, l           | Pin – 713211              | Sampling Date |           |      |    |                              | :                       | 04.08.2023 |   |                |
|                         |   |                  |            |                  | Period of Analysis        |               |           |      |    |                              | 10.08.2023 - 11.08.2023 |            |   |                |
|                         |   |                  |            |                  |                           | Ι             | Date of I | Íssu | e  |                              |                         | 14.08.2023 |   |                |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation  | ı froi           | m the Sampling Method and | Pla           | an        | :    | No | Ту                           | pe o                    | of Sample  | : | Stack Emission |
| Procedure               |   |                  |            |                  |                           |               |           |      |    |                              |                         |            |   |                |
| Sample Condition        | : | Sealed Sampl     | e ID No.   | :                | ENV/17/Aug./A/VIII        | F             | Report N  | Vo.  | :  | ENV/17/Aug./TR(A)/VIII/23-24 |                         |            |   | VIII/23-24     |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Reid Hammer Furnace (RH16 & RH24 - I Section | on) (Stack No.13)                            |   |     |     |  |  |  |
|------------------------------|---|--|--|---|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                                     | Circular Height of Stack (mtr.) (from G. L.) |   |     |     |  |  |  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)          | : | 1.8 | }   |  |  |  |
| Capacity                     | : | -m-/%  | Height of sampling port (mtr.) (from G.L.)   |   |     |     |  |  |  |
| Emission Due to              | : | Combustion of CBM and Baking of Electrodes   |  |   |     |     |  |  |  |
| Fuel Used                    | : | C.B.M  | Permanent Platform & Ladden                  | • | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | 170 m <sup>3</sup> /hr.                      |  |   |     |     |  |  |  |
| Pollution Control Device     | : | E.S.P  |  |   |     |     |  |  |  |

### **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.                                |   | RESULTS  | LIMIT |
|-----|----------------------------------|----------------------|---|---|----------|-------|
| NO. | 6.3                              |                      |   |   |          |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)                        | : | 86.0     | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            |   |   | 754.0    | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)                        | : | 12.49    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)                      | : | 93918.58 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019                   | : | 74.20    | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98, | : | 79.50    | N.A.  |
|     |                                  | o,                   | Sec. 11 (Vol. 11.07): 2017                |   |          |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019                           | : | 3.6      | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019                           | : | <1.0     | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D | : | 84.27    | 150.0 |
|     | Matter                           |                      | 3685M-98 (reapproved 2005) : Sec. 11      |   |          |       |
|     |                                  |                      | (Vol.11.07) : 2017                        |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

Your P INSTRUMENT CHARLESTY Dr. Godfr Manger  ${\bf Authorised\ Signatory:}$ 

Mark

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.                    |        |                           | Type o        | f Inc | lustry |                            |                         | Graphite Unit |   |                |  |
|------------------|---|------------------|-------------------------|--------|---------------------------|---------------|-------|--------|----------------------------|-------------------------|---------------|---|----------------|--|
| Industry         |   |                  |                         |        |                           |               |       |        |                            |                         |               |   |                |  |
| Address          | : | P.O Sagarbha     | nga, Durga <sub>l</sub> | our, i | Pin – 713211              | Sampling Date |       |        |                            |                         | 04.08.2023    |   |                |  |
|                  |   |                  |                         |        | Period of Analysis        |               |       |        |                            | 10.08.2023 - 11.08.2023 |               |   |                |  |
|                  |   |                  |                         |        |                           | Date of       | f Iss | ıe     |                            |                         | 14.08.2023    |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation               | fro    | m the Sampling Method and | Plan          | :     | No     | Ту                         | pe o                    | of Sample     | : | Stack Emission |  |
| Procedure        |   |                  |                         |        |                           |               |       |        |                            |                         |               |   |                |  |
| Sample Condition | : | Sealed Samp      | le ID No.               | :      | ENV/17/Aug./A/IX          | Report        | No.   | :      | ENV/17/Aug./TR(A)/IX/23-24 |                         |               |   | IX/23-24       |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P. I Unit - 2 (Thermo Pack Stack) (Stack No.1) | 6)                                  |    |     |     |
|------------------------------|---|--|-------------------------------------|----|-----|-----|
| Shape of Stack               | : | Circular                                       | Height of Stack (mtr.) (from G. L.) | :  | 30  | .0  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.) | :  | 0.4 | 10  |
|                              |   | Height of sampling port (mtr.) (from G.L.)     | :                                   | 28 | .0  |     |
| Emission Due to              | : | Combustion of CBM                              |                                     |    |     |     |
| Fuel Used                    | : | C.B.M  | Permanent Platform & Ladder         | ſ  | :   | Yes |
| Working Fuel<br>Consumption  | : | 70 m <sup>3</sup> /hr.                         | All Parks                           |    |     |     |
| Pollution Control Device     | : | Nil  |                                     |    |     |     |

### **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.   |   | RESULTS | LIMIT |
|-----|----------------------------------|----------------------|--|---|---------|-------|
| NO. | 4.3                              |                      |  |   |         |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)   | : | 67.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            | The second secon |   | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)   | : | 8.62    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)   | : | 3369.80 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019  | : | 69.50   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 76.20   | N.A.  |
|     |                                  | 1                    | Sec. 11 (Vol. 11.07) : 2017  |   |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019  | : | 3.2     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019  | : | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 62.58   | 150.0 |
|     | Matter                           | O,                   | 3685M-98 (reapproved 2005) : Sec. 11   |   |         |       |
|     |                                  |                      | (Vol.11.07) : 2017   |   |         |       |

Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87]. Remarks

N.A. means Not Available.

Result relates only to the sample tested.

### Reviewed By:

DY. QUARTE STANDARDERY DY. QUARTE STANDARD

H.O.

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### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite | India I | td.         |       |                           | Type o | f Inc  | lustry |    | :    | Graphite U               | nit |                |  |
|-------------------------|---|----------|---------|-------------|-------|---------------------------|--------|--------|--------|----|------|--------------------------|-----|----------------|--|
| Address                 | : | P.O Sag  | garbhai | ıga, Durgap | ur, l | Pin - 713211              | Sampli | ng [   | ate    |    | :    | 04.08.2023               | ;   |                |  |
|                         |   |          |         |             |       |                           | Period | of A   | nalysi | S  | :    | 10.08.2023               | - 1 | 1.08.2023      |  |
|                         |   |          |         |             |       |                           | Date o | f Issı | ıe     |    |      | 14.08.2023               | ;   |                |  |
| Sampling Plan &         | : | ENV/SOF  | P/01    | Deviation   | froi  | m the Sampling Method and | Plan   | :      | No     | Ту | pe ( | of Sample                | :   | Stack Emission |  |
| Procedure               |   |          |         |             |       |                           |        |        |        |    |      |                          |     |                |  |
| Sample Condition        | : | Sealed   | Samp    | e ID No.    | :     | ENV/17/Aug./A/X           | Report | No.    | :      | Eľ | VV/  | IV/17/Aug./TR(A)/X/23-24 |     |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P. I Unit - 2 (HGG Stack) (Stack No.17 |  |   |     |     |
|------------------------------|---|--|--|---|-----|-----|
| Shape of Stack               | : | Circular                               | Height of Stack (mtr.) (from G. L.)        | : | 30  | .0  |
| Materials of<br>Construction | : | M.S.                                   | Stack I.D. at sampling point (mtr.)        | : | 0.4 | 10  |
| Capacity                     | : | -m-//m                                 | Height of sampling port (mtr.) (from G.L.) | : | 28  | .0  |
| Emission Due to              | : | Combustion of CBM                      |  |   |     |     |
| Fuel Used                    | : | C.B.M                                  | Permanent Platform & Ladde                 | r | :   | Yes |
| Working Fuel<br>Consumption  | : | 70 m <sup>3</sup> /hr.                 |  |   |     |     |
| Pollution Control Device     | : | Water Spray Cooling Chamber            |  |   |     |     |

### **B. RESULTS**

| SL. | PARAMETERS                       | UNIT               | METHOD NO.                                |    | RESULTS | LIMIT |
|-----|----------------------------------|--------------------|---|----|---------|-------|
| NO. |                                  | Name of Street     |   |    |         |       |
| 1.  | Flue Gas Temperature             | оС                 | IS: 11255 (Part 1)                        | :  | 45.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.          | -   |    | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                | IS: 11255 (Part 3)                        | :  | 9.84    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm³/hr.            | IS: 11255 (Part III)                      | 1: | 4138.92 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 2): 2019                   | :  | 50.20   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98, | :  | 58.50   | N.A.  |
|     |                                  | 1                  | Sec. 11 (Vol. 11.07) : 2017               |    |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)            | IS 13270 : 2019                           | :  | 3.2     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)             | IS 13270 : 2019                           | :  | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup> | IS 11255 (Part – 1): 2019 & ASTM D 3685/D | :  | 56.01   | 150.0 |
|     | Matter                           | <i>-</i>           | 3685M-98 (reapproved 2005) : Sec. 11      |    |         |       |
|     |                                  |                    | (Vol.11.07) : 2017                        |    |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



 ${\bf Authorised\ Signatory:}$ 

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.       |        |                           |     | Type of | Ind  | lustry |    | :    | Graphite U               | nit |                |  |
|------------------|---|------------------|------------|--------|---------------------------|-----|---------|------|--------|----|------|--------------------------|-----|----------------|--|
| Industry         |   |                  |            |        |                           |     |         |      |        |    |      | No.                      |     |                |  |
| Address          | : | P.O Sagarbhai    | nga, Durga | our, I | Pin – 713211              |     | Sampli  | ng D | ate    |    | :    | 05.08.2023               | ;   |                |  |
|                  |   |                  |            |        |                           |     | Period  | of A | nalysi | 5  | •    | 10.08.2023               | - 1 | 1.08.2023      |  |
|                  |   |                  |            |        |                           |     | Date of | Issu | ıe     |    |      | 14.08.2023               |     |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation  | fror   | n the Sampling Method and | d P | Plan    | :    | No     | Ty | ре ( | of Sample                | :   | Stack Emission |  |
| Procedure        |   |                  |            |        |                           |     |         |      |        |    |      |                          |     |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.  | :      | ENV/17/Aug./A/XI          |     | Report  | No.  | :      | El | VV/  | //17/Aug./TR(A)/XI/23-24 |     |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Finishing Dust Collector (Unit - I) (North) (Sta | ck No.19)                                  |   |     |     |
|------------------------------|---|--|--|---|-----|-----|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.)        | : | 13  | 0   |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0.7 |     |
| Capacity                     | : | - ar / h   | Height of sampling port (mtr.) (from G.L.) | i | 4.2 |     |
| Emission Due to              | : | Process Activity                                 |  |   |     |     |
| Fuel Used                    | : | Electrically Operated                            | Permanent Platform & Ladden                | ſ | 1:  | Yes |
| Working Fuel<br>Consumption  | : | N.A.   |  |   |     |     |
| Pollution Control Device     | : | Bag Filter                                       |  |   |     |     |

### **B. RESULTS**

| SL. | PARAMETERS                   | UNIT               | METHOD NO.                                 |   | RESULTS  | LIMIT |
|-----|------------------------------|--------------------|--|---|----------|-------|
| NO. |                              |                    |  |   |          |       |
| 1.  | Flue Gas Temperature         | оС                 | IS : 11255 (Part 1)                        | : | 33.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg.          |  | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s                | IS : 11255 (Part 3)                        | : | 18.76    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.            | IS : 11255 (Part III)                      | : | 25039.99 | N.A.  |
| 5   | Concentration of Particulate | mg/Nm <sup>3</sup> | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 140.21   | 150.0 |
|     | Matter                       | -                  | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|     |                              |                    | (Vol.11.07): 2017                          |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year Tonocancery Dr. Confin Hange **Authorised Signatory:** 

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.                    |        |                           | Type of | f Inc | lustry |    | :    | Graphite U                | nit |                |
|------------------|---|------------------|-------------------------|--------|---------------------------|---------|-------|--------|----|------|---------------------------|-----|----------------|
| Industry         |   |                  |                         |        |                           |         |       |        |    |      | - SA                      |     |                |
| Address          | : | P.O Sagarbha     | nga, Durga <sub>l</sub> | our, i | Pin – 713211              | Sampli  | ng [  | ate    |    |      | 05.08.2023                |     |                |
|                  |   |                  |                         |        |                           | Period  | of A  | nalysi | S  | :    | 10.08.2023                | - 1 | 1.08.2023      |
|                  |   |                  |                         |        |                           | Date of | Issi  | ue     |    |      | 14.08.2023                |     |                |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation               | fro    | n the Sampling Method and | Plan    | :     | No     | Ту | pe o | of Sample                 | :   | Stack Emission |
| Procedure        |   |                  |                         |        |                           |         |       |        |    | 7    |                           |     |                |
| Sample Condition | : | Sealed Samp      | le ID No.               | :      | ENV/17/Aug./A/XII         | Report  | No.   | :      | EN | IV/  | V/17/Aug./TR(A)/XII/23-24 |     |                |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Finishing Dust Collector (Unit - 2) (Stack No.20) |  |    |     |     |
|------------------------------|---|---|--|----|-----|-----|
| Shape of Stack               | : | Circular  | Height of Stack (mtr.) (from G. L.)  | .0 |     |     |
| Materials of<br>Construction | : | M.S.  | Stack I.D. at sampling point (mtr.)  | :  | 0.9 | )   |
| Capacity                     | : | - and the .                                       | Height of sampling port (mtr.) (from G.L.)   | :  | 11  | .0  |
| Emission Due to              | : | Process Activity                                  |  |    |     |     |
| Fuel Used                    | : | Electrically Operated                             | Permanent Platform & Ladder  |    | :   | Yes |
| Working Fuel<br>Consumption  | : | N.A.  | Approximation of the Party of t |    |     |     |
| Pollution Control Device     | : | Bag Filter  |  |    |     |     |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 39.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. |  | : | 753.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 14.86    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 32162.10 | N.A.  |
| 5          | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 54.28    | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd. |   |                           |    |                   |   |            | Type of Industry |      |                         |   |                |
|------------------|---|------------------|---------------------|---|---------------------------|----|-------------------|---|------------|------------------|------|-------------------------|---|----------------|
| Industry         |   |                  |                     |   |                           |    |                   |   |            |                  |      | - 16                    |   |                |
| Address          | : | P.O. – Sagarbhai | nga, Durga          | pur, i  | Pin - 713211              |    | Sampling Date : 0 |   |            |                  |      | 08.08.2023              |   |                |
|                  |   |                  |                     |   |                           |    |                   |   |            | 5                | :    | 10.08.2023 - 11.08.2023 |   |                |
|                  |   |                  |                     |   |                           |    | Date of Issue     |   |            |                  | :    | 14.08.2023              | ; |                |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | n froi  | m the Sampling Method and | Pl | lan               | : | No         | Ту               | pe o | of Sample               | : | Stack Emission |
| Procedure        |   |                  |                     |   |                           |    |                   |   |            |                  |      |                         |   |                |
| Sample Condition | : | Sealed Sampl     | le ID No.           | ID No. : ENV/17/Aug./A/XIII Report No. : ENV/17/Aug./TR(A)/XIII/23- |                           |    |                   |   | XIII/23-24 |                  |      |                         |   |                |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Fine Screening Dust Collector (Stack No.21) |  |   |     |     |  |  |  |
|------------------------------|---|---|--|---|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                                    | G. L.)                                     |   |     |     |  |  |  |
| Materials of<br>Construction | : | M.S.  | Stack I.D. at sampling point (mtr.)        | : | 1.0 | 56  |  |  |  |
| Capacity                     | : | Land Alle                                   | Height of sampling port (mtr.) (from G.L.) |   |     |     |  |  |  |
| Emission Due to              | : | Process Activity                            |  |   |     |     |  |  |  |
| Fuel Used                    | : | Electrically Operated                       | Permanent Platform & Ladden                |   | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | N.A.  | April 1997                                 |   |     |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                                  |  |   |     |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|-----|------------------------------|-----------|--|---|----------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 39.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. |  | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 18.93    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 15867.62 | N.A.  |
| 5   | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 97.97    | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|     |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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### FORMAT NO: ENV/FM/38

| T                | 1 |              |                  |         |       |                           |               |               | _    |    |                             |                         |  |                |
|------------------|---|--------------|------------------|---------|-------|---------------------------|---------------|---------------|------|----|-----------------------------|-------------------------|--|----------------|
| Name of the      | : | Graphite Inc | Type of Industry |         |       |                           | :             | Graphite Unit |      |    |                             |                         |  |                |
| Industry         |   |              |                  |         |       |                           |               |               | _    |    |                             |                         |  |                |
| Address          | : | P.O Sagar    | rbhanga, l       | Durgap  | ur, l | Pin – 713211              | Samp          | ling l        | Date |    | :                           | 04.08.2023              |  |                |
|                  |   |              |                  |         |       |                           |               |               |      | S  | :                           | 10.08.2023 - 11.08.2023 |  |                |
|                  |   |              |                  |         |       |                           | Date of Issue |               |      |    |                             | 14.08.2023              |  |                |
| Sampling Plan &  | : | ENV/SOP/0    | 01 Dev           | viation | froi  | m the Sampling Method and | Plan          | :             | No   | Ty | уре о                       | of Sample               |  | Stack Emission |
| Procedure        |   |              |                  |         |       |                           |               |               |      |    |                             |                         |  |                |
| Sample Condition | : | Sealed Sa    | ample ID         | No.     | :     | ENV/17/Aug./A/XIV         | Repo          | rt No         | :    | El | ENV/17/Aug./TR(A)/XIV/23-24 |                         |  |                |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Boiler (1.5 Ton & 2 Ton) (Stack No.22) | (common stack)             |     |     |     |  |  |  |
|------------------------------|---|--|----------------------------|-----|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                               | G. L.)                     |     |     |     |  |  |  |
| Materials of<br>Construction | : | M.S.                                   | :                          | 0.2 | 280 |     |  |  |  |
| Capacity                     | : | No.1 – 1.5 Ton & No.2 – 2 Ton          | :                          | 13  | .50 |     |  |  |  |
| Emission Due to              | : | Combustion of CBM                      |                            |     |     |     |  |  |  |
| Fuel Used                    | : | C.B.M                                  | Permanent Platform & Ladde | r   | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | 50 m <sup>3</sup> /hr.                 | All the said               |     |     |     |  |  |  |
| Pollution Control Device     | : | Nil                                    |                            |     |     |     |  |  |  |

## **B. RESULTS**

|     |                                  |                    |  |   |         | 1     |
|-----|----------------------------------|--------------------|--|---|---------|-------|
| SL. | PARAMETERS                       | UNIT               | METHOD NO.   |   | RESULTS | LIMIT |
| NO. | 27                               |                    | Application of the second seco |   |         |       |
| 1.  | Flue Gas Temperature             | оС                 | IS: 11255 (Part 1)   | : | 156.0   | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.          | The second secon | : | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                | IS: 11255 (Part 3)   | : | 8.65    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm³/hr.            | IS: 11255 (Part III)   | : | 1311.90 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 2): 2019  | : | 116.50  | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 80.10   | N.A.  |
|     |                                  |                    | Sec. 11 (Vol. 11.07) : 2017  |   |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)            | IS 13270 : 2019  | : | 3.6     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)             | IS 13270 : 2019  | : | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup> | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 24.53   | 800.0 |
|     | Matter                           |                    | 3685M-98 (reapproved 2005) : Sec. 11   |   |         |       |
|     |                                  |                    | (Vol.11.07): 2017  |   |         |       |

Limit as per CPCB [Emission Regulation Part IV: COINDS/26/1986-87]. Remarks

N.A. means Not Available..

During monitoring 1.5 Ton capacity Boiler was running. Result relates only to the sample tested.

#### Reviewed By:



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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry |   | Graphite | India I |             |     | Type of Industry            |               |      |                    | :  | Graphite Unit |             |                         |                |  |
|-------------------------|---|----------|---------|-------------|-----|-----------------------------|---------------|------|--------------------|----|---------------|-------------|-------------------------|----------------|--|
| Address                 | : | P.O Sag  | garbhai | nga, Durgap | ur, | Pin - 713211                | Sampli        | ng [ | ate                |    | :             | 05.08.2023  | ;                       |                |  |
|                         |   |          |         |             |     |                             |               |      | Period of Analysis |    |               |             | 10.08.2023 - 11.08.2023 |                |  |
|                         |   |          |         |             |     |                             | Date of Issue |      |                    |    | :             | 14.08.2023  | ;                       |                |  |
| Sampling Plan &         | : | ENV/SOF  | 2/01    | Deviation   | fro | m the Sampling Method and I | Plan          | :    | No                 | Ty | ype           | of Sample   | :                       | Stack Emission |  |
| Procedure               |   |          |         |             |     |                             |               |      |                    |    |               |             |                         |                |  |
| Sample Condition        | : | Sealed   | Samp    | le ID No.   | :   | ENV/17/Aug./A/XV            | Report        | No.  | :                  | El | NV/           | 17/Aug./TR( | A)/                     | XV/23-24       |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Tunnel Kiln -1 (Re-Baking Furnace) | (Stack No.23)   |    |    |     |  |  |  |
|------------------------------|---|------------------------------------|---|----|----|-----|--|--|--|
| Shape of Stack               | : | Circular                           | G. L.)  |    |    |     |  |  |  |
| Materials of<br>Construction | : | M.S.                               | S. Stack I.D. at sampling point (mtr.)  Height of sampling port |    |    |     |  |  |  |
| Capacity                     | : |                                    | :   | 18 | .0 |     |  |  |  |
| Emission Due to              | : | Combustion of CBM                  |   |    |    |     |  |  |  |
| Fuel Used                    | : | C.B.M                              | Permanent Platform & Ladde                                      | r  | :  | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | 85 m³/hr.                          | 21 Alle Mills   |    |    |     |  |  |  |
| Pollution Control Device     | : | Incinerator                        |   |    |    |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT               | METHOD NO.   |    | RESULTS | LIMIT |
|-----|----------------------------------|--------------------|--|----|---------|-------|
| NO. | 27                               |                    | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1997   |    |         |       |
| 1.  | Flue Gas Temperature             | оС                 | IS: 11255 (Part 1)   | -: | 198.0   | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.          | The second secon | :  | 753.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                | IS: 11255 (Part 3)   | :  | 6.42    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm³/hr.            | IS: 11255 (Part III)   | :  | 5997.81 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 2): 2019  | :  | 96.50   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | :  | 81.20   | N.A.  |
|     |                                  |                    | Sec. 11 (Vol. 11.07) : 2017  |    |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)            | IS 13270 : 2019  | :  | 3.4     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)             | IS 13270 : 2019  | :  | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup> | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 77.65   | 150.0 |
|     | Matter                           |                    | 3685M-98 (reapproved 2005) : Sec. 11   |    |         |       |
|     |                                  |                    | (Vol.11.07): 2017  |    |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:



 ${\bf Authorised\ Signatory:}$ 

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I                         | Graphite India Ltd. |        |                           |               |                          |  |    | Type of Industry |      |                         | Graphite Unit |                |  |  |
|------------------|---|--|---------------------|--------|---------------------------|---------------|--------------------------|--|----|------------------|------|-------------------------|---------------|----------------|--|--|
| Industry         |   |  |                     |        |                           |               |                          |  |    |                  |      | 4                       |               |                |  |  |
| Address          | : | P.O. – Sagarbhai                         | nga, Durga          | our, l | Pin – 713211              |               | Sampling Date            |  |    |                  | ••   | 05.08.2023              |               |                |  |  |
|                  |   |  |                     |        |                           |               |                          |  |    |                  | :    | 10.08.2023 - 11.08.2023 |               |                |  |  |
|                  |   |  |                     |        |                           | Date of Issue |                          |  |    |                  | :    | 14.08.2023              |               |                |  |  |
| Sampling Plan &  | : | ENV/SOP/01                               | Deviation           | ı froi | m the Sampling Method and | Pla           | an                       |  | No | Ту               | pe ( | of Sample               | :             | Stack Emission |  |  |
| Procedure        |   |  |                     |        |                           |               |                          |  |    |                  |      |                         |               |                |  |  |
| Sample Condition | : | Sealed Sample ID No. : ENV/17/Aug./A/XVI |                     |        |                           |               | Report No. : ENV/17/Aug. |  |    | 17/Aug./TR(      | A)/  | XVI/23-24               |               |                |  |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Finishing Dust Collector Unit – 3 (Stack No.24) |                                     |     |     |     |
|------------------------------|---|---|-------------------------------------|-----|-----|-----|
| Shape of Stack               | : | Circular  | Height of Stack (mtr.) (from G. L.) | :   | 13  | .0  |
| Materials of<br>Construction | : | M.S.  | Stack I.D. at sampling point (mtr.) | :   | 0.7 | 78  |
| Capacity                     | : | - Canada  | :                                   | 9.0 | )   |     |
| Emission Due to              | : | Process Activity                                |                                     |     |     |     |
| Fuel Used                    | : | Electrically Operated                           | Permanent Platform & Ladder         | •   | :   | Yes |
| Working Fuel<br>Consumption  | : | TO A A A A A A A A A A A A A A A A A A A        | All Print                           |     |     |     |
| Pollution Control Device     | : | Bag Filter                                      |                                     |     |     |     |

## **B. RESULTS**

|                             |   | METHOD NO.  |   | RESULTS           | LIMIT             |
|-----------------------------|---|---|---|-------------------|-------------------|
| ue Gas Temperature          | оС  | IS : 11255 (Part 1)   | :   | 32.0              | N.A.              |
| arometric Pressure          | mm of Hg.   | -   | :   | 753.0             | N.A.              |
| elocity of Gas flow         | m/s   | IS : 11255 (Part 3)   | :   | 8.20              | N.A.              |
| uantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)   | :   | 13661.35          | N.A.              |
| oncentration of Particulate | mg/Nm³  | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D  | :   | 25.65             | 150.0             |
| atter                       |   | 3685M-98 (reapproved 2005) : Sec. 11  |   |                   |                   |
|                             | 7   | (Vol.11.07) : 2017  |   |                   |                   |
| a<br>e<br>u                 | rometric Pressure<br>locity of Gas flow<br>antity of Gas flow<br>ncentration of Particulate | rometric Pressure mm of Hg. locity of Gas flow m/s antity of Gas flow Nm³/hr. ncentration of Particulate mg/Nm³ | rometric Pressure mm of Hg.  locity of Gas flow m/s antity of Gas flow ncentration of Particulate mg/Nm³  IS: 11255 (Part 3) IS: 11255 (Part III) IS 11255 (Part – 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 | rometric Pressure | rometric Pressure |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

Kind & Discount of State of St

## **Authorised Signatory:**

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite   | India I | td.         |     |                             | Type o  | f Inc | lustry |    | :    | Graphite U  | nit |                |
|-------------------------|---|------------|---------|-------------|-----|-----------------------------|---------|-------|--------|----|------|-------------|-----|----------------|
| Address                 | : | P.O. – Sag | garbhai | ıga, Durgap | ur, | Pin - 713211                | Sampli  | ng D  | ate    |    | :    | 04.08.2023  |     |                |
|                         |   |            |         |             |     |                             | Period  | of A  | nalysi | S  | :    | 10.08.2023  | - 1 | 1.08.2023      |
|                         |   |            |         |             |     |                             | Date of | Issu  | ıe     |    |      | 14.08.2023  |     |                |
| Sampling Plan &         | : | ENV/SOP    | 2/01    | Deviation   | fro | m the Sampling Method and I | Plan    | :     | No     | Ту | pe ( | of Sample   | :   | Stack Emission |
| Procedure               |   |            |         |             |     |                             |         |       |        |    |      |             |     |                |
| Sample Condition        | : | Sealed     | Samp    | e ID No.    | :   | ENV/17/Aug./A/XVII          | Report  | No.   | :      | E  | VV/  | 17/Aug./TR( | A)/ | XVII/23-24     |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P. I. Unit – 3 (HGG Stack) (Stack No.25) |  |   |    |     |
|------------------------------|---|--|--|---|----|-----|
| Shape of Stack               | : | Circular                                 | Height of Stack (mtr.) (from G. L.)        | : | 30 | 0.0 |
| Materials of<br>Construction | : | M.S.                                     | Stack I.D. at sampling point (mtr.)        | : | 0. | 40  |
| Capacity                     | : | - Allen                                  | Height of sampling port (mtr.) (from G.L.) | : | 28 | 3.0 |
| Emission Due to              | : | Combustion of CBM                        |  |   |    |     |
| Fuel Used                    | : | CBM                                      | Permanent Platform & Ladden                | ſ | :  | Yes |
| Working Fuel<br>Consumption  | : | 60 m <sup>3</sup> /hr.                   | All the said                               |   |    |     |
| Pollution Control Device     | : | Water Spray Cooling Chamber              |  |   |    |     |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT               | METHOD NO.   |    | RESULTS | LIMIT |
|-----|----------------------------------|--------------------|--|----|---------|-------|
| NO. |                                  |                    |  |    |         |       |
| 1.  | Flue Gas Temperature             | oC                 | IS : 11255 (Part 1)  | -: | 42.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.          | The second secon | :  | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                | IS : 11255 (Part 3)  | :  | 10.51   | N.A.  |
| 4.  | Quantity of Gas flow             | Nm³/hr.            | IS : 11255 (Part III)  | :  | 4377.15 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 2) : 2019   | :  | 72.50   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | :  | 51.20   | N.A.  |
|     |                                  |                    | Sec. 11 (Vol. 11.07) : 2017  |    |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)            | IS 13270 : 2019  | :  | 3.4     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)             | IS 13270 : 2019  | :  | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup> | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 30.59   | 150.0 |
|     | Matter                           |                    | 3685M-98 (reapproved 2005) : Sec. 11   |    |         |       |
|     |                                  |                    | (Vol.11.07): 2017  |    |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

Year &

 ${\bf Authorised\ Signatory:}$ 

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.       |        |                           |     | Type of | fInd | ustry  |    | :    | Graphite U  | nit |                |
|------------------|---|------------------|------------|--------|---------------------------|-----|---------|------|--------|----|------|-------------|-----|----------------|
| Industry         |   |                  |            |        |                           |     |         |      |        |    |      | No.         |     |                |
| Address          | : | P.O. – Sagarbhai | nga, Durga | pur, i | Pin - 713211              |     | Sampli  | ng D | ate    |    | :    | 04.08.2023  |     |                |
|                  |   |                  |            |        |                           |     | Period  | of A | nalysi |    | :    | 10.08.2023  | - 1 | 1.08.2023      |
|                  |   |                  |            |        |                           |     | Date of | Issı | ıe     |    | :    | 14.08.2023  |     |                |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation  | ı froi | m the Sampling Method and | l P | Plan    | :    | No     | Ту | pe o | of Sample   | :   | Stack Emission |
| Procedure        |   |                  |            |        |                           |     |         |      |        |    |      |             |     |                |
| Sample Condition | : | Sealed Sampl     | le ID No.  | :      | ENV/17/Aug./A/XVIII       |     | Report  | No.  | :      | EN | IV/  | 17/Aug./TR( | A)/ | XVIII/23-24    |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P. I. Unit – 3 (Thermopack Stack) (Stack No.27) |  |   |     |     |
|------------------------------|---|---|--|---|-----|-----|
| Shape of Stack               | : | Circular  | Height of Stack (mtr.) (from G. L.)        | : | 30  | .0  |
| Materials of<br>Construction | : | M.S.  | Stack I.D. at sampling point (mtr.)        | : | 0.4 | -0  |
| Capacity                     | : | - And All                                       | Height of sampling port (mtr.) (from G.L.) | : | 28  | .0  |
| Emission Due to              | : | Combustion of CBM                               |  |   |     |     |
| Fuel Used                    | : | CBM   | Permanent Platform & Ladder                |   | :   | Yes |
| Working Fuel<br>Consumption  | : | 70 m <sup>3</sup> /hr.                          |  |   |     |     |
| Pollution Control Device     | : | Nil   |  |   |     |     |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT               | METHOD NO.   |   | RESULTS | LIMIT |
|-----|----------------------------------|--------------------|--|---|---------|-------|
| NO. | 6.3                              |                    |  |   |         |       |
| 1.  | Flue Gas Temperature             | оС                 | IS: 11255 (Part 1)   | : | 70.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.          | The state of the s | : | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                | IS: 11255 (Part 3)   | : | 9.47    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm³/hr.            | IS: 11255 (Part III)   | : | 3664.55 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 2): 2019  | : | 68.20   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 47.50   | N.A.  |
|     |                                  |                    | Sec. 11 (Vol. 11.07) : 2017  |   |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)            | IS 13270 : 2019  | : | 3.8     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)             | IS 13270 : 2019  | : | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup> | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 41.50   | 150.0 |
|     | Matter                           | <u> </u>           | 3685M-98 (reapproved 2005) : Sec. 11   |   |         |       |
|     |                                  |                    | (Vol.11.07) : 2017   |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:



 ${\bf Authorised\ Signatory:}$ 



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#### FORMAT NO: ENV/FM/38

|                  |   | 1             |              |       |                           |         |       |        |    |      |                           |     |                |  |
|------------------|---|---------------|--------------|-------|---------------------------|---------|-------|--------|----|------|---------------------------|-----|----------------|--|
| Name of the      | : | Graphite Indi | ia Ltd.      |       |                           | Type o  | f Inc | lustry |    | :    | Graphite U                | nit |                |  |
| Industry         |   | _             |              |       |                           |         |       |        |    |      |                           |     |                |  |
| Address          | : | P.O. – Sagarb | hanga, Durga | pur,  | Pin - 713211              | Sampli  | ng [  | ate    |    |      | 04.08.2023                | ;   |                |  |
|                  |   |               |              |       |                           | Period  | of A  | nalysi | s  |      | 10.08.2023                | - 1 | 1.08.2023      |  |
|                  |   |               |              |       |                           | Date of | Issi  | ıe     |    | •    | 14.08.2023                | ;   |                |  |
| Sampling Plan &  | : | ENV/SOP/01    | Deviation    | ı fro | m the Sampling Method and | Plan    | :     | No     | Ту | pe ( | of Sample                 | :   | Stack Emission |  |
| Procedure        |   |               |              |       |                           |         |       |        |    |      |                           |     |                |  |
| Sample Condition | : | Sealed Sar    | nple ID No.  | :     | ENV/17/Aug./A/XIX         | Report  | No.   | :      | EN | VV/  | V/17/Aug./TR(A)/XIX/23-24 |     |                |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Thermic Fluid Heater (Extrusion 2 Department | (Stack No.28)                              |   |    |     |
|------------------------------|---|--|--|---|----|-----|
| Shape of Stack               | : | Circular                                     | Height of Stack (mtr.) (from G. L.)        | : | 30 | 0.0 |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0. | 58  |
| Capacity                     | : | 10 Lakh K-Cal/hr.                            | Height of sampling port (mtr.) (from G.L.) | : | 20 | 0.0 |
| Emission Due to              | : | Combustion of CBM to Heat Treatment Field    |  |   |    |     |
| Fuel Used                    | : | CBM  | Permanent Platform & Ladder                | r |    | Yes |
| Working Fuel<br>Consumption  | : | 50 m <sup>3</sup> /hr.                       | Agent March                                |   |    |     |
| Pollution Control Device     | : | Nil  |  |   |    |     |

#### **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.   |    | RESULTS | LIMIT |
|-----|----------------------------------|----------------------|--|----|---------|-------|
| NO. | 47                               |                      |  |    |         |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)   | -: | 75.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            | The second secon | :  | 753.0   | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)   | :  | 7.79    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)   | :  | 6216.95 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019  | :  | 48.50   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | :  | 26.80   | N.A.  |
|     |                                  |                      | Sec. 11 (Vol. 11.07) : 2017  |    |         |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019  | :  | 3.8     | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019  | :  | <1.0    | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 12.81   | 150.0 |
|     | Matter                           | O,                   | 3685M-98 (reapproved 2005) : Sec. 11   |    |         |       |
|     |                                  |                      | (Vol.11.07) : 2017   |    |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

Kind Chicagosty
Dr. College Standard

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India I | .td.        |        |                           |      | Type of | Ind  | ustry  |    | :    | Graphite U  | nit |                |
|-------------------------|---|------------------|-------------|--------|---------------------------|------|---------|------|--------|----|------|-------------|-----|----------------|
| Address                 | : | P.O. – Sagarbhai | nga, Durgaj | our, F | Pin – 713211              |      | Sampli  | ng D | ate    |    | :    | 08.08.2023  |     |                |
|                         |   |                  |             |        |                           |      | Period  | of A | nalysi | 5  | :    | 10.08.2023  | - 1 | 1.08.2023      |
|                         |   |                  |             |        |                           |      | Date of | Issu | ıe     |    | •    | 14.08.2023  |     |                |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation   | fron   | n the Sampling Method and | l Pl | lan     |      | No     | Ту | pe ( | of Sample   | :   | Stack Emission |
| Procedure               |   |                  |             |        |                           |      |         |      |        |    |      |             |     |                |
| Sample Condition        | : | Sealed Sampl     | le ID No.   | :      | ENV/17/Aug./A/XX          |      | Report  | No.  | :      | EN | IV/  | 17/Aug./TR( | A)/ | XX/23-24       |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | IRICH Dust Collector (Extrusion 2  | Department) (Stack No. 29)                 |   |     |     |  |
|------------------------------|---|--|--|---|-----|-----|--|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.)        | : | 34  | .0  |  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0.3 | 30  |  |
| Capacity                     | : | - Alle   | Height of sampling port (mtr.) (from G.L.) | : | 28  | 3.0 |  |
| Emission Due to              | : | Process Activity   |  |   |     |     |  |
| Fuel Used                    | : | Electrically Operated  | Permanent Platform & Ladder                | ſ | :   | Yes |  |
| Working Fuel<br>Consumption  | : | The state of the s | The off                                    |   |     |     |  |
| Pollution Control Device     | : | Bag Filter   |  |   |     |     |  |

#### **B. RESULTS**

| 45.0    | N.A.            |
|---------|-----------------|
| 753.0   | N.A.            |
| 7.49    | N.A.            |
| 1769.08 | N.A.            |
| 43.0    | 150.0           |
|         |                 |
|         |                 |
|         | 7.49<br>1769.08 |

Remarks: Limit as per CPCB [Emission Regulation Part IV: COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

MINIMAL CTANGAGERY Dr. Godly Hanger

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd. |        |                           |                    |               |      |     |    | :                       | Graphite Unit             |   |                |  |
|------------------|---|------------------|---------------------|--------|---------------------------|--------------------|---------------|------|-----|----|-------------------------|---------------------------|---|----------------|--|
| Industry         |   |                  |                     |        |                           |                    |               |      |     |    |                         | al.                       |   |                |  |
| Address          | : | P.O. – Sagarbhai | nga, Durga          | pur, l | Pin – 713211              |                    | Sampli        | ng D | ate |    | ••                      | 08.08.2023                |   |                |  |
|                  |   |                  |                     |        |                           | Period of Analysis |               |      |     | :  | 10.08.2023 - 11.08.2023 |                           |   |                |  |
|                  |   |                  |                     |        |                           |                    | Date of Issue |      |     |    | :                       | 14.08.2023                |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | ı froi | m the Sampling Method and | P                  | lan           | :    | No  | Ту | pe (                    | of Sample                 | : | Stack Emission |  |
| Procedure        |   |                  |                     |        |                           |                    |               |      |     |    |                         |                           |   |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.           | :      | ENV/17/Aug./A/XXI         |                    | Report        | No.  | :   | EN | IV/                     | 7/17/Aug./TR(A)/XXI/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | Main Dust Collector (Extrusion 2) (Stack – 30) |  |   |     |     |  |  |
|-----------------------------|---|--|--|---|-----|-----|--|--|
| Shape of Stack              | : | Circular                                       | Height of Stack (mtr.) (from G. L.)          | : | 34  | 1.0 |  |  |
| Materials of Construction   | : | M.S.   | Stack I.D. at sampling point (mtr.)          | : | 1.0 | 0   |  |  |
| Capacity                    | : |  | Height of sampling port : (mtr.) (from G.L.) |   |     |     |  |  |
| Emission Due to             | : | Process Activity                               |  |   |     |     |  |  |
| Fuel Used                   | : | Electrically Operated                          | Permanent Platform & Ladder                  | • | :   | Yes |  |  |
| Working Fuel<br>Consumption | : | TO A A A A A A A A A A A A A A A A A A A       | Aller Name                                   |   |     |     |  |  |
| Pollution Control Device    | : | Bag Filter                                     |  |   |     |     |  |  |

#### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |     | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|-----|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | :   | 37.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | - Committee                                | . : | 753.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | :   | 10.47    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | :   | 27190.29 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | :   | 59.18    | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |     |          |       |
|            |                              |           | (Vol.11.07) : 2017                         |     |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

Kind & Discountery St. Godby Hauser

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Branch Office : Siliguri = Haldis = Durgspur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L |            | Type of | Ind                       | ustry |               | :    | Graphite U | nit |                             |                         |   |                |  |
|-------------------------|---|------------------|------------|---------|---------------------------|-------|---------------|------|------------|-----|-----------------------------|-------------------------|---|----------------|--|
| Address                 |   | P.O Sagarbhar    | nga, Durga | pur, l  | Pin – 713211              |       | Sampling Date |      |            |     |                             | 08.08.2023              |   |                |  |
|                         |   |                  |            |         |                           |       |               |      |            | 3   | :                           | 10.08.2023 - 11.08.2023 |   |                |  |
|                         |   |                  |            |         |                           | I     | Date of       | Issu | e          |     |                             | 14.08.2023              |   |                |  |
| Sampling Plan &         |   | ENV/SOP/01       | Deviation  | ı froi  | n the Sampling Method and | d P   | lan           | :    | No         | Ту  | pe o                        | of Sample               | : | Stack Emission |  |
| Procedure               |   |                  |            |         |                           |       |               |      |            |     |                             |                         |   |                |  |
| Sample Condition        | : | Sealed Sampl     | e ID No.   | :       | ENV/17/Aug./A/XXII        |       | Report l      | No.  | :          | EN  | NV/17/Aug./TR(A)/XXII/23-24 |                         |   |                |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Raymond Mill Dust Collector (Extrusion 2) (S | tack - 31)                                 |   |     |     |  |  |  |
|------------------------------|---|--|--|---|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                                     | G. L.)                                     |   |     |     |  |  |  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0.2 | 23  |  |  |  |
| Capacity                     | : |  | Height of sampling port (mtr.) (from G.L.) |   |     |     |  |  |  |
| Emission Due to              | : | Process Activity                             |  |   |     |     |  |  |  |
| Fuel Used                    | : | Electrically Operated                        | Permanent Platform & Ladden                | ſ | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | manales ar                                   | Age and                                    |   |     |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                                   |  |   |     |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |    | RESULTS | LIMIT |
|-----|------------------------------|-----------|--|----|---------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | :  | 36.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. | -  | -: | 753.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | :  | 9.05    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | :  | 1292.92 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | :  | 85.57   | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |    |         |       |
|     |                              |           | (Vol.11.07): 2017                          |    |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite I  | Graphite India Ltd. |             |       |                           |               |       |      | у                  | :                             | Graphite Unit |   |                |
|------------------|---|-------------|---------------------|-------------|-------|---------------------------|---------------|-------|------|--------------------|-------------------------------|---------------|---|----------------|
| Industry         |   |             |                     |             |       |                           |               |       |      |                    |                               |               |   |                |
| Address          | : | P.O. – Saga | arbhar              | iga, Durgap | ur, i | Pin – 713211              | Sam           | pling | Date |                    | :                             | 08.08.2023    | } |                |
|                  |   |             |                     |             |       |                           |               |       |      | Period of Analysis |                               |               |   | 1.08.2023      |
|                  |   |             |                     |             |       |                           | Date of Issue |       |      |                    | :                             | 14.08.2023    | ; |                |
| Sampling Plan &  | : | ENV/SOP,    | /01                 | Deviation   | fro   | m the Sampling Method and | Plan          | :     | No   |                    | Гуре                          | of Sample     | : | Stack Emission |
| Procedure        |   |             |                     |             |       |                           |               |       |      |                    | П                             |               |   |                |
| Sample Condition | : | Sealed      | Sampl               | e ID No.    | :     | ENV/17/Aug./A/XXIII       | Repo          | rt No | . :  |                    | ENV/17/Aug./TR(A)/XXIII/23-24 |               |   | XXIII/23-24    |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Silo Dust Collector (Extrusion 2) (Stack - 32) |  |   |     |     |  |  |  |
|------------------------------|---|--|--|---|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                                       | G. L.)                                       |   |     |     |  |  |  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)          | : | 0.6 | 50  |  |  |  |
| Capacity                     | : | - And All                                      | Height of sampling port : (mtr.) (from G.L.) |   |     |     |  |  |  |
| Emission Due to              | : | Process Activity                               |  |   |     |     |  |  |  |
| Fuel Used                    | : | Electrically Operated                          | Permanent Platform & Ladden                  | r | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : |  |  |   |     |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                                     |  |   |     |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|-----|------------------------------|-----------|--|---|----------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 37.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. |  | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 12.82    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 12417.25 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 14.56    | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|     |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite I | India L | td.                |       |                           | Type          | of Inc | lustry                  |    | :                            | Graphite Unit |   |                |  |
|------------------|---|------------|---------|--------------------|-------|---------------------------|---------------|--------|-------------------------|----|------------------------------|---------------|---|----------------|--|
| Industry         |   |            |         |                    |       |                           |               |        |                         |    |                              |               |   |                |  |
| Address          | : | P.O Saga   | arbhar  | ıga, Durgap        | ur, i | Pin – 713211              | Sampl         | ing I  | )ate                    |    |                              | 08.08.2023    |   |                |  |
|                  |   |            |         | Period of Analysis |       |                           |               | •      | 10.08.2023 - 11.08.2023 |    |                              |               |   |                |  |
|                  |   |            |         |                    |       |                           | Date of Issue |        |                         |    |                              | 14.08.2023    |   |                |  |
| Sampling Plan &  | : | ENV/SOP,   | /01     | Deviation          | fro   | m the Sampling Method and | Plan          | :      | No                      | Ту | pe o                         | of Sample     | : | Stack Emission |  |
| Procedure        |   |            |         |                    |       |                           |               |        |                         |    | 3                            |               |   |                |  |
| Sample Condition | : | Sealed     | Sampl   | e ID No.           | :     | ENV/17/Aug./A/XXIV        | Repor         | t No.  | :                       | EN | ENV/17/Aug./TR(A)/XXIV/23-24 |               |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | IRICH (TREMA) (Scrubber System Stack) (Stack | ck No.33)                                  |   |     |     |  |  |  |
|-----------------------------|---|--|--|---|-----|-----|--|--|--|
| Shape of Stack              | : | Circular                                     | G. L.)                                     |   |     |     |  |  |  |
| Materials of Construction   | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0.2 | 28  |  |  |  |
| Capacity                    | : | 40/0   | Height of sampling port (mtr.) (from G.L.) |   |     |     |  |  |  |
| Emission Due to             | : | Process Activity                             |  |   |     |     |  |  |  |
| Fuel Used                   | : | Electrically Operated                        | Permanent Platform & Ladden                | r | :   | Yes |  |  |  |
| Working Fuel<br>Consumption | : |  |  |   |     |     |  |  |  |
| Pollution Control Device    | : | Scrubber System                              |  |   |     |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.   |   | RESULTS  | LIMIT |
|-----|------------------------------|-----------|--|---|----------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)  | : | 56.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. | The second secon |   | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)  | : | 56.74    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | : | 11116.46 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 13.43    | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11   |   |          |       |
|     |                              |           | (Vol.11.07) : 2017   |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite I | India L | Type of Industry |       |                           |               |        | :             | Graphite Unit      |     |                            |            |                         |                |  |
|------------------|---|------------|---------|------------------|-------|---------------------------|---------------|--------|---------------|--------------------|-----|----------------------------|------------|-------------------------|----------------|--|
| Industry         |   |            |         |                  |       |                           |               |        |               |                    |     |                            | 1          |                         |                |  |
| Address          | : | P.O Saga   | arbhar  | ıga, Durgap      | ur, i | Pin – 713211              | Sampling Date |        |               |                    |     | :                          | 08.08.2023 |                         |                |  |
|                  |   |            |         |                  |       |                           |               |        |               | Period of Analysis |     |                            |            | 10.08.2023 - 11.08.2023 |                |  |
|                  |   |            |         |                  |       |                           |               |        | Date of Issue |                    |     |                            | 14.08.2023 |                         |                |  |
| Sampling Plan &  | : | ENV/SOP/   | /01     | Deviation        | fro   | m the Sampling Method and | Plan          | :      | ]             | No                 | Туј | pe c                       | of Sample  | ::                      | Stack Emission |  |
| Procedure        |   |            |         |                  |       |                           |               |        |               |                    | a.  | 3                          |            |                         |                |  |
| Sample Condition | : | Sealed S   | Sampl   | e ID No.         | :     | ENV/17/Aug./A/XXV         | Repo          | ort No | ).            | :                  | EN  | IV/17/Aug./TR(A)/XXV/23-24 |            |                         | XXV/23-24      |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Acheson Dust Collector (Stack No.34) |  |    |    |     |  |  |  |
|------------------------------|---|--------------------------------------|--|----|----|-----|--|--|--|
| Shape of Stack               | : | Rectangular                          | :  | 18 | .0 |     |  |  |  |
| Materials of<br>Construction | : | M.S.                                 | Stack I.D. at sampling point : 0.8 x 0.32 (mtr.) |    |    |     |  |  |  |
| Capacity                     | : | -m //h                               | Height of sampling port (mtr.) (from G.L.)       | :  | 10 | .5  |  |  |  |
| Emission Due to              | : | Process Activity                     |  |    |    |     |  |  |  |
| Fuel Used                    | : | Electrically Operated                | Permanent Platform & Ladder                      | r  | :  | Yes |  |  |  |
| Working Fuel<br>Consumption  | : |                                      |  |    |    |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                           |  |    |    |     |  |  |  |

## **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |  | RESULTS   | LIMIT   |
|------------------------------|---|--|--|---|---|
| Flue Gas Temperature         | оС  | IS: 11255 (Part 1)   | :  | 36.0  | N.A.  |
| Barometric Pressure          | mm of Hg.   | - 4000   |  | 753.0   | N.A.  |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :  | 14.77   | N.A.  |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :  | 13029.35  | N.A.  |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D   | :  | 131.95  | 150.0   |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |  |   |   |
|                              |   | (Vol.11.07) : 2017   |  |   |   |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Nm³/hr.  Concentration of Particulate  Matter  OC  IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS 11255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Nm³/hr.  Concentration of Particulate  Matter  OC  IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS: 11255 (Part III)  IS: 11255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 36.0         Barometric Pressure       mm of Hg.        : 753.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 14.77         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 13029.35         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 131.95         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

New A CHARACTETY OF CHARACTETY

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | raphite India Ltd. |        |                           |     |               |     |               |    | :                           | Graphite Unit           |            |                |  |  |
|------------------|---|------------------|--------------------|--------|---------------------------|-----|---------------|-----|---------------|----|-----------------------------|-------------------------|------------|----------------|--|--|
| Industry         |   |                  |                    |        |                           |     |               |     |               |    |                             |                         |            |                |  |  |
| Address          |   | P.O Sagarbhar    | nga, Durgaj        | our, l | Pin – 713211              | S   | Sampling Date |     |               |    |                             | 08.08.2023              |            |                |  |  |
|                  |   |                  |                    |        |                           |     |               |     |               |    | :                           | 10.08.2023 - 11.08.2023 |            |                |  |  |
|                  |   |                  |                    |        |                           |     |               |     | Date of Issue |    |                             |                         | 14.08.2023 |                |  |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation          | ı froi | m the Sampling Method and | Pla | an            | :   | No            | Ту | pe o                        | of Sample               | :          | Stack Emission |  |  |
| Procedure        |   |                  |                    |        |                           |     |               |     |               |    |                             |                         |            |                |  |  |
| Sample Condition | : | Sealed Sampl     | e ID No.           | :      | ENV/17/Aug./A/XXVI        | R   | Report I      | No. | :             | EN | NV/17/Aug./TR(A)/XXVI/23-24 |                         |            | XXVI/23-24     |  |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Scrap System Dust Collector (Extrusion # 2) (S   | tack – 35)                                    |   |    |     |  |
|------------------------------|---|--|---|---|----|-----|--|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.)           | : | 17 | 7.0 |  |
| Materials of<br>Construction | : | M.S.   | (mtr.)  |   |    |     |  |
| Capacity                     | : | 40.  | Height of sampling port<br>(mtr.) (from G.L.) |   |    |     |  |
| Emission Due to              | : | Process Activity   |   |   |    |     |  |
| Fuel Used                    | : | Electrically Operated  | Permanent Platform & Ladden                   | r | :  | Yes |  |
| Working Fuel<br>Consumption  | : | The same of the sa |   |   |    |     |  |
| Pollution Control Device     | : | Bag Filter   |   |   |    |     |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|-----|------------------------------|-----------|--|---|----------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 46.0     | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. |  | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        |   | 16.80    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 18506.87 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 138.23   | 150.0 |
|     | Matter                       | 1         | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|     |                              |           | (Vol.11.07): 2017                          |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Manufacture Chromosopher Dr. Goding Hanager

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | raphite India Ltd. |        |                           |    |               |                                    |               |    | :    | Graphite Unit           |   |                |  |
|------------------|---|------------------|--------------------|--------|---------------------------|----|---------------|------------------------------------|---------------|----|------|-------------------------|---|----------------|--|
| Industry         |   |                  |                    |        |                           |    |               |                                    |               |    |      |                         |   |                |  |
| Address          | : | P.O. – Sagarbhai | nga, Durga         | pur, l | Pin – 713211              |    | Sampling Date |                                    |               |    | ••   | 05.08.2023              |   |                |  |
|                  |   |                  |                    |        |                           |    |               |                                    |               | 3  | :    | 10.08.2023 - 11.08.2023 |   |                |  |
|                  |   |                  |                    |        |                           |    |               |                                    | Date of Issue |    |      |                         | ; |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation          | ı froi | m the Sampling Method and | Pl | lan           | :                                  | No            | Ту | pe ( | of Sample               | : | Stack Emission |  |
| Procedure        |   |                  |                    |        |                           |    |               |                                    |               |    |      |                         |   |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.          | :      | ENV/17/Aug./A/XXVII       |    | Report        | rt No. : ENV/17/Aug./TR(A)/XXVII/2 |               |    |      | XXVII/23-24             |   |                |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (II) Furnace (Stack No.36) |  |    |     |     |  |  |
|------------------------------|---|------------------------------------|--|----|-----|-----|--|--|
| Shape of Stack               | : | Circular                           | :  | 45 | .0  |     |  |  |
| Materials of<br>Construction | : | M.S.                               | Stack I.D. at sampling point (mtr.)        | :  | 1.6 | Ó   |  |  |
| Capacity                     | : |                                    | Height of sampling port (mtr.) (from G.L.) |    |     |     |  |  |
| Emission Due to              | : | Combustion of CBM                  |  |    |     |     |  |  |
| Fuel Used                    | : | CBM                                | Permanent Platform & Ladder                | ſ  | :   | Yes |  |  |
| Working Fuel<br>Consumption  | : | 120 m³/hr.                         | Page 100                                   |    |     |     |  |  |
| Pollution Control Device     | : | E.S.P                              |  |    |     |     |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.   |   | RESULTS  | LIMIT |
|-----|----------------------------------|----------------------|--|---|----------|-------|
| NO. | 4.7                              | December 1           |  |   |          |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)   | : | 95.0     | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            | The second secon | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)   | : | 11.35    | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)   | : | 64977.98 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019  |   | 62.50    | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 49.20    | N.A.  |
|     |                                  | o,                   | Sec. 11 (Vol. 11.07) : 2017  |   |          |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019  | : | 3.4      | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019  | : | <1.0     | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 17.12    | 150.0 |
|     | Matter                           | J,                   | 3685M-98 (reapproved 2005) : Sec. 11   |   |          |       |
|     |                                  |                      | (Vol.11.07) : 2017   |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:



 ${\bf Authorised\ Signatory:}$ 

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ⊥td.        |      |                           | Type o        | f Inc | lustry |    | :    | Graphite Unit                |   |                |  |
|------------------|---|------------------|-------------|------|---------------------------|---------------|-------|--------|----|------|------------------------------|---|----------------|--|
| Industry         |   |                  |             |      |                           |               |       |        |    |      |                              |   |                |  |
| Address          | : | P.O Sagarbha     | nga, Durgaj | our, | Pin – 713211              | Sampling Date |       |        |    | :    | 05.08.2023                   |   |                |  |
|                  |   |                  |             |      |                           |               |       |        |    | :    | 10.08.2023 - 11.08.2023      |   |                |  |
|                  |   |                  |             |      |                           | Date of Issue |       |        |    | :    | 14.08.2023                   |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation   | fro  | m the Sampling Method and | Plan          | :     | No     | Ту | pe o | of Sample                    | : | Stack Emission |  |
| Procedure        |   |                  |             |      |                           |               |       |        |    |      |                              |   |                |  |
| Sample Condition | : | Sealed Samp      | le ID No.   | :    | ENV/17/Aug./A/XXVIII      | Report        | No.   | :      | EN | IV/  | V/17/Aug./TR(A)/XXVIII/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Finishing Unit - 3 (South Side) Nip | ple Dust Collector (Stack - 37)            |   |     |     |  |  |
|------------------------------|---|-------------------------------------|--|---|-----|-----|--|--|
| Shape of Stack               | : | Circular                            | Height of Stack (mtr.) (from G. L.)        | : | 15  | 5.0 |  |  |
| Materials of<br>Construction | : | M.S.                                | Stack I.D. at sampling point (mtr.)        | : | 0.7 | 70  |  |  |
| Capacity                     | : | - Alle                              | Height of sampling port (mtr.) (from G.L.) |   |     |     |  |  |
| Emission Due to              | : | Process Activity                    |  |   |     |     |  |  |
| Fuel Used                    | : | Electrically Operated               | Permanent Platform & Ladden                |   | :   | Yes |  |  |
| Working Fuel<br>Consumption  | : | -                                   | The self                                   |   |     |     |  |  |
| Pollution Control Device     | : | Bag Filter                          |  |   |     |     |  |  |

#### **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |   | RESULTS   | LIMIT  |
|------------------------------|---|--|---|---|--|
| Flue Gas Temperature         | оС  | IS : 11255 (Part 1)  | :   | 34.0  | N.A.   |
| Barometric Pressure          | mm of Hg.   | -  | :   | 753.0   | N.A.   |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :   | 7.36  | N.A.   |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :   | 9842.07   | N.A.   |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D   | :   | 78.94   | 150.0  |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |   |   |  |
|                              |   | (Vol.11.07) : 2017   |   |   |  |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Welocity of Gas flow  Omega flow  Mm³/hr.  Concentration of Particulate  Matter  Mode flg.  IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS: 11255 (Part III)  Sec. 11 | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  mm of Hg.  Velocity of Gas flow  Mm's IS: 11255 (Part 3)  Uantity of Gas flow  Nm³/hr. IS: 11255 (Part III)  Concentration of Particulate  mg/Nm³ IS: 11255 (Part - 1): 2019 & ASTM D 3685/D  Matter  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 34.0         Barometric Pressure       mm of Hg.        : 753.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 7.36         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 9842.07         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 78.94         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year T

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite Inc | ıdia Ltd. |  | Type o | f Inc                     | lustry        |      | :                       | Graphite Unit |      |                           |  |                |
|------------------|---|--------------|-----------|--|--------|---------------------------|---------------|------|-------------------------|---------------|------|---------------------------|--|----------------|
| Industry         |   | •            |           |  |        |                           |               |      |                         |               |      |                           |  |                |
| Address          | : | P.O. – Sagar | rbhanga,  | , Durgap                                   | ur, i  | Pin – 713211              | Sampli        | ng [ | ate                     |               |      | 04.08.2023                |  |                |
|                  |   |              |           | Period                                     | of A   | nalysi                    | s             |      | 10.08.2023 - 11.08.2023 |               |      |                           |  |                |
|                  |   |              |           |  |        |                           | Date of Issue |      |                         |               |      | 14.08.2023                |  |                |
| Sampling Plan &  | : | ENV/SOP/0    | 01 De     | eviation                                   | froi   | m the Sampling Method and | Plan          | :    | No                      | Ту            | pe o | of Sample                 |  | Stack Emission |
| Procedure        |   |              |           |  |        |                           |               |      |                         |               |      |                           |  |                |
| Sample Condition | : | Sealed Sa    | ample II  | ple ID No. : ENV/17/Aug./A/XXIX Report No. |        |                           |               |      | :                       | EN            | IV/  | /17/Aug./TR(A)/XXIX/23-24 |  |                |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 16, Stock Cleaning Machine D | ust Collector (Stack No.39)         |     |    |     |  |  |  |
|------------------------------|---|-----------------------------------|-------------------------------------|-----|----|-----|--|--|--|
| Shape of Stack               | : | Rectangular                       | Height of Stack (mtr.) (from G. L.) | :   | 10 | .0  |  |  |  |
| Materials of<br>Construction | : | M.S.                              | (mtr.)                              |     |    |     |  |  |  |
| Capacity                     | : | - Allen                           | :                                   | 7.0 | )  |     |  |  |  |
| Emission Due to              | : | Process Activity                  |                                     |     |    |     |  |  |  |
| Fuel Used                    | : | Electrically Operated             | Permanent Platform & Ladder         | •   | :  | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | -                                 | The self                            |     |    |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                        |                                     |     |    |     |  |  |  |

#### **B. RESULTS**

| SL. | PARAMETERS                   | PARAMETERS UNIT METHOD NO. |  |   |         |       |
|-----|------------------------------|----------------------------|--|---|---------|-------|
| 1.  | Flue Gas Temperature         | оС                         | IS : 11255 (Part 1)                        | : | 43.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg.                  | -  | : | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s                        | m/s IS: 11255 (Part 3)                     |   | 9.15    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.                    | IS : 11255 (Part III)                      | : | 7397.79 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³                     | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 41.87   | 150.0 |
|     | Matter                       |                            | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|     |                              |                            | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:

Kind & Industrial Conductory 35 Only Manager

## **Authorised Signatory:**



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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.        |      |                           | Type o        | Type of Industry : Graphite Unit |     |    |                             |                         |   |                |  |
|------------------|---|------------------|-------------|------|---------------------------|---------------|----------------------------------|-----|----|-----------------------------|-------------------------|---|----------------|--|
| Industry         |   |                  |             |      |                           |               |                                  |     |    |                             | al.                     |   |                |  |
| Address          | : | P.O Sagarbha     | nga, Durgaj | our, | Pin – 713211              | Sampli        | ng I                             | ate |    | :                           | 04.08.2023              |   |                |  |
|                  |   |                  |             |      |                           |               |                                  |     |    | :                           | 10.08.2023 - 11.08.2023 |   |                |  |
|                  |   |                  |             |      |                           | Date of Issue |                                  |     |    | :                           | 14.08.2023              |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation   | fro  | m the Sampling Method and | Plan          | :                                | No  | Ту | pe o                        | of Sample               | : | Stack Emission |  |
| Procedure        |   |                  |             |      |                           |               |                                  |     |    |                             |                         |   |                |  |
| Sample Condition | : | Sealed Samp      | le ID No.   | :    | ENV/17/Aug./A/XXX         | Report        | No.                              | :   | EN | ENV/17/Aug./TR(A)/XXX/23-24 |                         |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (II), Stock Cleaning Machine I   | Oust Collector (Stack No.40)        |     |    |     |
|------------------------------|---|--|-------------------------------------|-----|----|-----|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.) | :   | 30 | .0  |
| Materials of<br>Construction | : | M.S.   | :                                   | 0.6 | 55 |     |
| Capacity                     | : |  | :                                   | 7.0 | )  |     |
| Emission Due to              | : | Process Activity   |                                     |     |    |     |
| Fuel Used                    | : | Electrically Operated  | Permanent Platform & Ladder         | ſ   | :  | Yes |
| Working Fuel<br>Consumption  | : | The state of the s | The said                            |     |    |     |
| Pollution Control Device     | : | Bag Filter   |                                     |     |    |     |

#### **B. RESULTS**

| PARAMETERS                   | PARAMETERS UNIT METHOD NO.  |  |  |   |  |  |
|------------------------------|---|--|--|---|--|--|
| Flue Gas Temperature         | оС  | IS: 11255 (Part 1)   | :  | 47.0  | N.A.   |  |
| Barometric Pressure          | mm of Hg.   | -  | :  | 754.0   | N.A.   |  |
| Velocity of Gas flow         | m/s IS: 11255 (Part 3)  |  | :  | 7.51  | N.A.   |  |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :  | 8284.41   | N.A.   |  |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part – 1) : 2019 & ASTM D 3685/D   | :  | 90.85   | 150.0  |  |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |  |   |  |  |
|                              |   | (Vol.11.07) : 2017   |  |   |  |  |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Welocity of Gas flow  Mm's IS: 11255 (Part 3)  Quantity of Gas flow  Nm³/hr. Concentration of Particulate  Matter  IS: 11255 (Part 1)  IS: 11255 (Part 1)  IS: 11255 (Part III)  Sec. 11 | Flue Gas Temperature  OC IS: 11255 (Part 1)  Barometric Pressure  Velocity of Gas flow  Mm's IS: 11255 (Part 3)  Unantity of Gas flow  Nm³/hr. IS: 11255 (Part III)  Concentration of Particulate  Matter  IS: 1255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 47.0         Barometric Pressure       mm of Hg.        : 754.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 7.51         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 8284.41         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 90.85         Matter       3685M-98 (reapproved 2005): Sec. 11 |  |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | td.        |        | Ту                        | pe of                 | Ind             | ustry | try : Graphite Unit |    |                         |                           |   |                |  |
|------------------|---|------------------|------------|--------|---------------------------|-----------------------|-----------------|-------|---------------------|----|-------------------------|---------------------------|---|----------------|--|
| Industry         |   |                  |            |        |                           |                       |                 |       |                     |    |                         |                           |   |                |  |
| Address          |   | P.O Sagarbhar    | nga, Durga | pur, l | Pin – 713211              | Sampling Date : 08.08 |                 |       |                     |    | 08.08.2023              | 08.08.2023                |   |                |  |
|                  |   |                  |            |        | Period of Analysis        |                       |                 |       |                     | :  | 10.08.2023 - 11.08.2023 |                           |   |                |  |
|                  |   |                  |            |        |                           | Date of Issue         |                 |       |                     |    |                         | 14.08.2023                |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation  | ı froi | m the Sampling Method and | Plan                  | 1               | : [   | No                  | Ty | pe o                    | of Sample                 | : | Stack Emission |  |
| Procedure        |   |                  |            |        |                           |                       |                 |       |                     |    |                         |                           |   |                |  |
| Sample Condition | : | Sealed Sampl     | e ID No.   | :      | ENV/17/Aug./A/XXXI        | Re                    | Report No. : El |       |                     | EN | V/:                     | /17/Aug./TR(A)/XXXI/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | Turning - I Dust Collector (Stack No.41) |                                     |     |       |
|-----------------------------|---|--|-------------------------------------|-----|-------|
| Shape of Stack              | : | Circular                                 | Height of Stack (mtr.) (from G. L.) | :   | 15.0  |
| Materials of Construction   | : | M.S.                                     | Stack I.D. at sampling point (mtr.) | :   | 0.25  |
| Capacity                    | : |  | :                                   | 3.0 |       |
| Emission Due to             | : | Process Activity                         |                                     |     |       |
| Fuel Used                   | : | Electrically Operated                    | Permanent Platform & Ladden         | ſ   | : Yes |
| Working Fuel<br>Consumption | : |  |                                     |     |       |
| Pollution Control Device    | : | Bag Filter                               |                                     |     |       |

## **B. RESULTS**

| SL. | PARAMETERS                   | PARAMETERS UNIT METHOD NO. |  |   |         |       |
|-----|------------------------------|----------------------------|--|---|---------|-------|
| 1.  | Flue Gas Temperature         | оС                         | IS : 11255 (Part 1)                        | : | 44.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg.                  | -  | : | 753.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s                        | IS : 11255 (Part 3)                        |   | 9.16    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.                    | IS : 11255 (Part III)                      | : | 1505.56 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³                     | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 35.24   | 150.0 |
|     | Matter                       |                            | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|     |                              |                            | (Vol.11.07): 2017                          |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite Ir | ndia Lt | td.        |        |                           | Type of Industry : Graphit   |              |                         |    |               | Graphite U                | nit |                |  |
|------------------|---|-------------|---------|------------|--------|---------------------------|--|--------------|-------------------------|----|---------------|---------------------------|-----|----------------|--|
| Industry         |   |             |         |            |        |                           | Alternative Control of the Control o |              |                         |    |               |                           |     |                |  |
| Address          | : | P.O. – Saga | arbhan  | ga, Durgap | ur, i  | Pin – 713211              | Sampling Date  |              |                         |    |               | 04.08.2023                |     |                |  |
|                  |   |             |         | Period     | l of A | nalysi                    | S  |              | 10.08.2023 - 11.08.2023 |    |               |                           |     |                |  |
|                  |   |             |         |            |        |                           | Date of Issue  |              |                         |    |               | 14.08.2023                |     |                |  |
| Sampling Plan &  | : | ENV/SOP/    | /01     | Deviation  | fro    | m the Sampling Method and | Plan   | :            | No                      | Ту | <i>т</i> ре ( | of Sample                 | :   | Stack Emission |  |
| Procedure        |   |             |         |            |        |                           |  |              |                         |    |               |                           |     |                |  |
| Sample Condition | : | Sealed S    | Sample  | e ID No.   | :      | ENV/17/Aug./A/XXXII       | Repor  | Report No. : |                         |    | VV/           | 17/Aug./TR(A)/XXXII/23-24 |     |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | P.I 2 - Turing Machine Dust Collector (S   | tack No.42)   |     |    |     |  |  |
|-----------------------------|---|--|---|-----|----|-----|--|--|
| Shape of Stack              | : | Circular   | Height of Stack (mtr.) (from G. L.)                                 | :   | 15 | .0  |  |  |
| Materials of Construction   | : | M.S.   | I.S. Stack I.D. at sampling point (mtr.)  Height of sampling port : |     |    |     |  |  |
| Capacity                    | : | - a / b  | i   | 3.0 | )  |     |  |  |
| Emission Due to             | : | Process Activity   |   |     |    |     |  |  |
| Fuel Used                   | : | Electrically Operated  | Permanent Platform & Ladder   | ſ   | :  | Yes |  |  |
| Working Fuel<br>Consumption | : | The same of the sa |   |     |    |     |  |  |
| Pollution Control Device    | : | Bag Filter   |   |     |    |     |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | PARAMETERS UNIT METHOD NO. |  |   |         |       |
|-----|------------------------------|----------------------------|--|---|---------|-------|
| 1.  | Flue Gas Temperature         | оС                         | IS: 11255 (Part 1)                         | : | 46.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg.                  |  | : | 754.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s                        | m/s IS: 11255 (Part 3)                     |   | 6.50    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.                    | IS : 11255 (Part III)                      | : | 1062.85 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³                     | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 71.32   | 150.0 |
|     | Matter                       |                            | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|     |                              |                            | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd.                        |         |                           |    |        |              |    |    | : Graphite Unit               |                         |   |                |  |  |
|------------------|---|------------------|--|---------|---------------------------|----|--------|--------------|----|----|-------------------------------|-------------------------|---|----------------|--|--|
| Industry         |   |                  |  |         |                           |    |        |              |    |    |                               | - A                     |   |                |  |  |
| Address          | : | P.O. – Sagarbhai | P.O. – Sagarbhanga, Durgapur, Pin – 713211 |         |                           |    |        |              |    |    | ••                            | 04.08.2023              |   |                |  |  |
|                  |   |                  |  |         |                           |    |        |              |    | 3  | :                             | 10.08.2023 - 11.08.2023 |   |                |  |  |
|                  |   |                  |  | Date of | Issu                      | ıe |        | : 14.08.2023 |    |    |                               |                         |   |                |  |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation                                  | ı froi  | m the Sampling Method and | P  | lan    |              | No | Ту | pe (                          | of Sample               | : | Stack Emission |  |  |
| Procedure        |   |                  |  |         |                           |    |        |              |    |    |                               |                         |   |                |  |  |
| Sample Condition | : | Sealed Sampl     | le ID No.                                  | :       | ENV/17/Aug./A/XXXIII      |    | Report | No.          | :  | EN | NV/17/Aug./TR(A)/XXXIII/23-2- |                         |   | XXXIII/23-24   |  |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | P.I 3 - Turing Machine Dust Collector ( | Stack No.43)                               |    |    |     |  |  |
|-----------------------------|---|---|--|----|----|-----|--|--|
| Shape of Stack              | : | Circular                                | :  | 15 | .0 |     |  |  |
| Materials of Construction   | : | M.S.                                    | (mtr.)                                     |    |    |     |  |  |
| Capacity                    | : | - And Alexander                         | Height of sampling port (mtr.) (from G.L.) |    |    |     |  |  |
| Emission Due to             | : | Process Activity                        |  |    |    |     |  |  |
| Fuel Used                   | : | Electrically Operated                   | Permanent Platform & Ladder                | ſ  | :  | Yes |  |  |
| Working Fuel<br>Consumption | : | -                                       |  |    |    |     |  |  |
| Pollution Control Device    | : | Bag Filter                              |  |    |    |     |  |  |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 34.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | -  | : | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS: 11255 (Part 3)                         | : | 6.37    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 1082.53 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 83.17   | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India Ltd. Type of Industry |             |      |                           |        |        |     |    | :                        | Graphite Unit           |   |                |  |
|-------------------------|---|--------------------------------------|-------------|------|---------------------------|--------|--------|-----|----|--------------------------|-------------------------|---|----------------|--|
| Address                 | : | P.O. – Sagarbha                      | nga, Durgaj | our, | Pin – 713211              | Sampl  | ing I  | ate |    | :                        | 05.08.2023              |   |                |  |
|                         |   |                                      |             |      |                           |        |        |     |    |                          | 10.08.2023 - 11.08.2023 |   |                |  |
|                         |   |                                      |             |      |                           | Date o | of Iss | ue  |    | ••                       | 14.08.2023              |   |                |  |
| Sampling Plan &         | : | ENV/SOP/01                           | Deviation   | fro  | m the Sampling Method and | Plan   | :      | No  | Ту | pe (                     | of Sample               | : | Stack Emission |  |
| Procedure               |   |                                      |             |      |                           |        |        |     |    |                          |                         |   |                |  |
| Sample Condition        | : | Sealed Samp                          | le ID No.   | :    | ENV/17/Aug./A/XXXIV       | Repor  | t No.  | :   | EN | ENV/17/Aug./TR(A)/XXXIV/ |                         |   | XXXIV/23-24    |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P.I. Unit – 4 (Thermo Pack Stack) (Stack No.44) |                                     |     |    |     |
|------------------------------|---|---|-------------------------------------|-----|----|-----|
| Shape of Stack               | : | Circular  | Height of Stack (mtr.) (from G. L.) | :   | 30 | .5  |
| Materials of<br>Construction | : | M.S.  | :                                   | 0.9 | 05 |     |
| Capacity                     | : | - London  | :                                   | 18  | .8 |     |
| Emission Due to              | : | Combustion of C.B.M                             |                                     |     |    |     |
| Fuel Used                    | : | C.B.M   | Permanent Platform & Ladder         | •   | :  | Yes |
| Working Fuel<br>Consumption  | : | 100 m <sup>3</sup> /hr.                         | Appendix of the Parket              |     |    |     |
| Pollution Control Device     | : | Nil   |                                     |     |    |     |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.                                |   | RESULTS  | LIMIT |
|-----|----------------------------------|----------------------|---|---|----------|-------|
| NO. | 4.3                              |                      |   |   |          |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)                        | : | 138.0    | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            | -   | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)                        |   | 5.99     | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)                      | : | 10899.39 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019                   |   | 110.50   | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98, | : | 76.50    | N.A.  |
|     |                                  | o,                   | Sec. 11 (Vol. 11.07): 2017                |   |          |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019                           | : | 3.6      | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019                           | : | <1.0     | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D | : | 125.71   | 150.0 |
|     | Matter                           | <u> </u>             | 3685M-98 (reapproved 2005) : Sec. 11      |   |          |       |
|     |                                  |                      | (Vol.11.07) : 2017                        |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry      | : | Graphite | India I | td.         |     |                             | Type o  | f Inc                                   | lustry |    | :                       | Graphite Unit |           |                |  |
|------------------------------|---|----------|---------|-------------|-----|-----------------------------|---------|---|--------|----|-------------------------|---------------|-----------|----------------|--|
| Address                      | : | P.O Sa   | garbhai | ıga, Durgap | ur, | Pin - 713211                | Sampli  | ng [                                    | ate    |    |                         | 05.08.2023    |           |                |  |
|                              |   |          |         |             |     |                             | Period  | d of Analysis : 10.08.2023 - 11.08.2023 |        |    |                         |               | 1.08.2023 |                |  |
|                              |   |          |         |             |     |                             | Date of | f Issi                                  | ıe     |    |                         | 14.08.2023    | ;         |                |  |
| Sampling Plan &<br>Procedure | : | ENV/SOI  | P/01    | Deviation   | fro | m the Sampling Method and l | Plan    | :                                       | No     | Ту | ре                      | of Sample     | :         | Stack Emission |  |
| Sample Condition             | : | Sealed   | Samp    | e ID No.    | :   | ENV/17/Aug./A/XXXV          | Report  | No.                                     | :      | EN | ENV/17/Aug./TR(A)/XXXV/ |               |           | XXXV/23-24     |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | P.I. Unit – 4 (Pre-Heater) (Stack No.45) |   |   |    |     |  |  |
|------------------------------|---|--|---|---|----|-----|--|--|
| Shape of Stack               | : | Circular                                 | Height of Stack (mtr.) (from G. L.)           | : | 35 | 8.8 |  |  |
| Materials of<br>Construction | : | M.S.                                     | (mtr.)  |   |    |     |  |  |
| Capacity                     | : | - Jan Jila                               | Height of sampling port<br>(mtr.) (from G.L.) |   |    |     |  |  |
| Emission Due to              | : | Combustion of C.B.M                      |   |   |    |     |  |  |
| Fuel Used                    | : | C.B.M                                    | Permanent Platform & Ladder                   | r | 1: | Yes |  |  |
| Working Fuel<br>Consumption  | : | 60 m <sup>3</sup> /hr.                   | The second                                    |   |    |     |  |  |
| Pollution Control Device     | : | Nil                                      |   |   |    |     |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                       | UNIT                 | METHOD NO.   |   | RESULTS  | LIMIT |
|-----|----------------------------------|----------------------|--|---|----------|-------|
| NO. |                                  |                      |  |   |          |       |
| 1.  | Flue Gas Temperature             | оС                   | IS: 11255 (Part 1)   | : | 35.0     | N.A.  |
| 2.  | Barometric Pressure              | mm of Hg.            | The second secon |   | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow             | m/s                  | IS: 11255 (Part 3)   | : | 5.18     | N.A.  |
| 4.  | Quantity of Gas flow             | Nm <sup>3</sup> /hr. | IS: 11255 (Part III)   | : | 18431.05 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 2): 2019  | : | 61.50    | N.A.  |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>   | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 42.60    | N.A.  |
|     |                                  |                      | Sec. 11 (Vol. 11.07): 2017   |   |          |       |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)              | IS 13270 : 2019  | : | 3.6      | N.A.  |
| 8.  | Concentration of CO              | %(v/v)               | IS 13270 : 2019  | : | <1.0     | 1.0   |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 23.90    | 150.0 |
|     | Matter                           | <u> </u>             | 3685M-98 (reapproved 2005) : Sec. 11   |   |          |       |
|     |                                  |                      | (Vol.11.07) : 2017   |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

N.A. means Not Available.

: Result relates only to the sample tested.

## Reviewed By:



 ${\bf Authorised\ Signatory:}$ 

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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry      |   | Graphite | India L | td.         |                         |                           | Туре   | f Inc | lustry |                         |     | Graphite Unit |     |                |  |
|------------------------------|---|----------|---------|-------------|-------------------------|---------------------------|--------|-------|--------|-------------------------|-----|---------------|-----|----------------|--|
| Address                      | : | P.O Sag  | garbhai | ıga, Durgap | ur, l                   | Pin - 713211              | Sampl  | ing [ | ate    |                         | :   | 05.08.2023    |     |                |  |
|                              |   |          |         | Period      | Period of Analysis : 10 |                           |        |       |        | 10.08.2023 - 11.08.2023 |     |               |     |                |  |
|                              |   |          |         |             |                         |                           | Date o | f Iss | ıe     |                         | :   | 14.08.2023    | ;   |                |  |
| Sampling Plan &<br>Procedure | : | ENV/SOP  | 9/01    | Deviation   | froi                    | m the Sampling Method and | Plan   | :     | No     | Ту                      | ype | of Sample     | :   | Stack Emission |  |
| Sample Condition             | : | Sealed   | Sampl   | e ID No.    | :                       | ENV/17/Aug./A/XXXVI       | Repor  | No.   | :      | El                      | NV/ | 17/Aug./TR(   | A)/ | XXXVI/23-24    |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | R.H 24 (II) Jaw Crusher Machine | Dust Collector (Stack No.46)               |     |    |     |
|------------------------------|---|---------------------------------|--|-----|----|-----|
| Shape of Stack               | : | Circular                        | Height of Stack (mtr.) (from G. L.)        | :   | 22 | 2.0 |
| Materials of<br>Construction | : | M.S.                            | :  | 0.4 | 48 |     |
| Capacity                     | : | John Man                        | Height of sampling port (mtr.) (from G.L.) | :   | 10 | 0.0 |
| Emission Due to              | : | Process Activity                |  |     |    |     |
| Fuel Used                    | : | Electrically Operated           | Permanent Platform & Ladder                | •   | :  | Yes |
| Working Fuel<br>Consumption  | : | -                               | The self                                   |     |    |     |
| Pollution Control Device     | : | Bag Filter                      |  |     |    |     |

#### **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |  | RESULTS  | LIMIT  |
|------------------------------|---|--|--|--|--|
| Flue Gas Temperature         | оС  | IS : 11255 (Part 1)  | :  | 32.0   | N.A.   |
| Barometric Pressure          | mm of Hg.   |  | :  | 752.0  | N.A.   |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :  | 8.21   | N.A.   |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :  | 5148.53  | N.A.   |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 52.32  | 150.0  |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |  |  |  |
|                              |   | (Vol.11.07) : 2017   |  |  |  |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr. | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Nm³/hr.  Concentration of Particulate  Matter  OC  IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS 11255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature         °C         IS: 11255 (Part 1)         :           Barometric Pressure         mm of Hg.          :           Velocity of Gas flow         m/s         IS: 11255 (Part 3)         :           Quantity of Gas flow         Nm³/hr.         IS: 11255 (Part III)         :           Concentration of Particulate         mg/Nm³         IS 11255 (Part - 1): 2019 & ASTM D 3685/D         :           Matter         3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 32.0         Barometric Pressure       mm of Hg.        : 752.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 8.21         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 5148.53         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 52.32         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year T

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd. |              |                           |                      |        |     |    |    | :          | Graphite Unit                |   |                |  |
|------------------|---|------------------|---------------------|--------------|---------------------------|----------------------|--------|-----|----|----|------------|------------------------------|---|----------------|--|
| Industry         |   |                  |                     |              |                           |                      |        |     |    |    |            |                              |   |                |  |
| Address          | : | P.O Sagarbha     | nga, Durgaj         | Pin – 713211 |                           | Sampling Date : 04.0 |        |     |    |    | 04.08.2023 | }                            |   |                |  |
|                  |   |                  |                     |              |                           |                      |        |     |    | ;  | :          | 10.08.2023 - 11.08.2023      |   |                |  |
|                  |   |                  |                     |              |                           | Date of Issue        |        |     |    |    | 14.08.2023 | 3                            |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | fror         | n the Sampling Method and | l P                  | lan    | :   | No | Ту | pe (       | of Sample                    | : | Stack Emission |  |
| Procedure        |   |                  |                     |              |                           |                      |        |     |    | H  | 7          |                              |   |                |  |
| Sample Condition | : | Sealed Samp      | le ID No.           | :            | ENV/17/Aug./A/XXXVII      |                      | Report | No. | :  | El | VV/        | V/17/Aug./TR(A)/XXXVII/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | :         | Reid Hammer - 16 Jaw Crusher Ma | chine Dust Collector (Stack No.47)         |   |    |     |  |  |  |
|-----------------------------|-----------|---------------------------------|--|---|----|-----|--|--|--|
| Shape of Stack              | :         | Circular                        | Height of Stack (mtr.) (from G. L.)        | : | 12 | .0  |  |  |  |
| Materials of Construction   | :         | M.S.                            | Stack I.D. at sampling point : 0.80 (mtr.) |   |    |     |  |  |  |
| Capacity                    | apacity : |                                 |  |   |    | 1   |  |  |  |
| Emission Due to             | :         | Process Activity                |  |   |    |     |  |  |  |
| Fuel Used                   | :         | Electrically Operated           | Permanent Platform & Ladden                |   | :  | Yes |  |  |  |
| Working Fuel<br>Consumption | :         | manales:                        | The self                                   |   |    |     |  |  |  |
| Pollution Control Device    | :         | Bag Filter                      |  |   |    |     |  |  |  |

## **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |  | RESULTS  | LIMIT   |
|------------------------------|---|--|--|--|---|
| Flue Gas Temperature         | оС  | IS: 11255 (Part 1)   | :  | 42.0   | N.A.  |
| Barometric Pressure          | mm of Hg.   | The second secon |  | 754.0  | N.A.  |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :  | 7.45   | N.A.  |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | -:   | 12648.89   | N.A.  |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | :  | 39.87  | 150.0   |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |  |  |   |
|                              |   | (Vol.11.07) : 2017   |  |  |   |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³   | Flue Gas Temperature  OC IS: 11255 (Part 1) Barometric Pressure  Welocity of Gas flow  Omega flow  Mm³/hr.  Concentration of Particulate  Matter  OC IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS: 11255 (Part III)  Sec. 11 | Flue Gas Temperature         °C         IS: 11255 (Part 1)         :           Barometric Pressure         mm of Hg.          :           Velocity of Gas flow         m/s         IS: 11255 (Part 3)         :           Quantity of Gas flow         Nm³/hr.         IS: 11255 (Part III)         :           Concentration of Particulate         mg/Nm³         IS 11255 (Part - 1): 2019 & ASTM D 3685/D         :           Matter         3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 42.0         Barometric Pressure       mm of Hg.        : 754.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 7.45         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 12648.89         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 39.87         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year T

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Branch Office : Siliguri \* Haldis \* Durgspur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd. |        |                           |     |               |     |               |    | :    | Graphite Unit                 |   |                |  |
|------------------|---|------------------|---------------------|--------|---------------------------|-----|---------------|-----|---------------|----|------|-------------------------------|---|----------------|--|
| Industry         |   |                  |                     |        |                           |     |               |     |               |    |      | A.                            |   |                |  |
| Address          | : | P.O Sagarbhai    | nga, Durga          | our, I | Pin - 713211              |     | Sampling Date |     |               |    | :    | 07.08.2023                    |   |                |  |
|                  |   |                  |                     |        |                           |     |               |     |               | 5  | :    | 10.08.2023 - 11.08.2023       |   |                |  |
|                  |   |                  |                     |        |                           |     |               |     | Date of Issue |    |      |                               | ; |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | fror   | m the Sampling Method and | l P | lan           | :   | No            | Ту | ре ( | of Sample                     | : | Stack Emission |  |
| Procedure        |   |                  |                     |        |                           |     |               |     |               |    |      |                               |   |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.           | :      | ENV/17/Aug./A/XXXVIII     |     | Report        | No. | :             | El | VV/  | //17/Aug./TR(A)/XXXVIII/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Reid Hammer - 24 (I) Stock Cleaning Dus | t Collector (Stack No.48)                  |   |     |     |
|------------------------------|---|---|--|---|-----|-----|
| Shape of Stack               | : | Circular                                | Height of Stack (mtr.) (from G. L.)        | : | 10  | .67 |
| Materials of<br>Construction | : | M.S.                                    | Stack I.D. at sampling point (mtr.)        | : | 0.3 | 300 |
| Capacity                     | : | -m //m                                  | Height of sampling port (mtr.) (from G.L.) | : | 4.5 | 57  |
| Emission Due to              | : | Process Activity                        |  |   |     |     |
| Fuel Used                    | : | Electrically Operated                   | Permanent Platform & Ladder                |   | :   | Yes |
| Working Fuel<br>Consumption  | : |   |  |   |     |     |
| Pollution Control Device     | : | Bag Filter with Cyclone Separator       |  |   |     |     |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|-----|------------------------------|-----------|--|---|---------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 40.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. |  | : | 752.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 9.84    | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 2359.50 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 52.78   | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|     |                              |           | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India I |             | Type of Industry |                           |                    |                            | :    | Graphite Unit |    |                         |                             |            |                |  |  |
|-------------------------|---|------------------|-------------|------------------|---------------------------|--------------------|----------------------------|------|---------------|----|-------------------------|-----------------------------|------------|----------------|--|--|
| Address                 | : | P.O Sagarbhai    | nga, Durgaj | our, I           | Pin – 713211              |                    | Sampling Date : 08.08.2023 |      |               |    |                         |                             |            |                |  |  |
|                         |   |                  |             |                  |                           | Period of Analysis |                            |      |               |    | 10.08.2023 - 11.08.2023 |                             |            |                |  |  |
|                         |   |                  |             |                  |                           |                    | Date of                    | Issı | ıe            |    |                         | 14.08.2023                  | 14.08.2023 |                |  |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation   | fror             | n the Sampling Method and | d P                | lan                        |      | No            | Ту | pe o                    | of Sample                   | :          | Stack Emission |  |  |
| Procedure               |   |                  |             |                  |                           |                    |                            |      |               |    |                         |                             |            |                |  |  |
| Sample Condition        | : | Sealed Sampl     | le ID No.   | :                | ENV/17/Aug./A/XXXIX       |                    | Report                     | No.  | :             | EN | IV/                     | V/17/Aug./TR(A)/XXXIX/23-24 |            |                |  |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Core Sampling Dust Collector (Stack No.49) |  |   |     |     |  |  |  |
|------------------------------|---|--|--|---|-----|-----|--|--|--|
| Shape of Stack               | : | Circular                                   | Height of Stack (mtr.) (from G. L.)        | : | 6.0 |     |  |  |  |
| Materials of<br>Construction | : | M.S.                                       | Stack I.D. at sampling point (mtr.)        | : | 0.2 | 5   |  |  |  |
| Capacity                     | : | - And Alle                                 | Height of sampling port (mtr.) (from G.L.) |   |     |     |  |  |  |
| Emission Due to              | : | Process Activity                           |  |   |     |     |  |  |  |
| Fuel Used                    | : | Electrically Operated                      | Permanent Platform & Ladder                |   | :   | Yes |  |  |  |
| Working Fuel<br>Consumption  | : |  | April 1995                                 |   |     |     |  |  |  |
| Pollution Control Device     | : | Bag Filter with Cyclone Separator          |  |   |     |     |  |  |  |

## **B. RESULTS**

| SL. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|-----|------------------------------|-----------|--|---|---------|-------|
| 1.  | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 35.0    | N.A.  |
| 2.  | Barometric Pressure          | mm of Hg. |  | : | 753.0   | N.A.  |
| 3.  | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 11.66   | N.A.  |
| 4.  | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 1972.65 | N.A.  |
| 5.  | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 43.75   | 150.0 |
|     | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|     |                              |           | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

New A CHARACTERY OF CHARACTERY

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Branch Office : Siliguri \* Haldis \* Durgspur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd.        |        |                           |   |               |     |    |    | :    | Graphite Unit              |   |                |  |
|------------------|---|------------------|----------------------------|--------|---------------------------|---|---------------|-----|----|----|------|----------------------------|---|----------------|--|
| Industry         |   |                  |                            |        |                           |   |               |     |    |    |      | A.                         |   |                |  |
| Address          | : | P.O Sagarbhai    | nga, Durga                 | our, I | Pin – 713211              |   | Sampling Date |     |    |    | :    | 09.08.2023                 |   |                |  |
|                  |   |                  |                            |        |                           |   |               |     |    | 5  |      | 10.08.2023 - 11.08.2023    |   |                |  |
|                  |   |                  | Date of Issue : 14.08.2023 |        |                           |   |               |     |    |    |      |                            |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation                  | fror   | n the Sampling Method and | P | lan           | :   | No | Ту | pe ( | of Sample                  | : | Stack Emission |  |
| Procedure        |   |                  |                            |        |                           |   |               |     |    |    |      |                            |   |                |  |
| Sample Condition | : | Sealed Sampl     | le ID No.                  | :      | ENV/17/Aug./A/XXXX        |   | Report        | No. | :  | EN | VV/  | V/17/Aug./TR(A)/XXXX/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | CBS Dust Collector (Stack No.50) |  |   |     |     |
|------------------------------|---|----------------------------------|--|---|-----|-----|
| Shape of Stack               | : | Circular                         | Height of Stack (mtr.) (from G. L.)        | : | 12. | .0  |
| Materials of<br>Construction | : | M.S.                             | Stack I.D. at sampling point (mtr.)        | : | 0.6 |     |
| Capacity                     | : | -0/0                             | Height of sampling port (mtr.) (from G.L.) | : | 5.0 |     |
| Emission Due to              | : | Process Activity                 |  |   |     |     |
| Fuel Used                    | : | Electrically Operated            | Permanent Platform & Ladder                | ſ | :   | Yes |
| Working Fuel<br>Consumption  | : |                                  |  |   |     |     |
| Pollution Control Device     | : | Bag Filter                       |  |   |     |     |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 43.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. |  |   | 754.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS: 11255 (Part 3)                         | : | 21.12    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 20114.48 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 27.37    | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

Year - Indicatory St. Control Manager

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#### FORMAT NO: ENV/FM/38

|                  | 1  |              |  |        |      |                           | Type o |               |                    |    |                              |               |                         |                |  |
|------------------|----|--------------|--|--------|------|---------------------------|--------|---------------|--------------------|----|------------------------------|---------------|-------------------------|----------------|--|
| Name of the      | 1: | Graphite Inc | Graphite India Ltd.                      |        |      |                           |        |               |                    |    | :                            | Graphite Unit |                         |                |  |
| Industry         |    |              |  |        |      |                           |        |               |                    |    |                              |               |                         |                |  |
| Address          | :  | P.O Sagar    | O. – Sagarbhanga, Durgapur, Pin – 713211 |        |      |                           |        |               |                    |    |                              | 07.08.2023    |                         |                |  |
|                  |    |              |  |        |      |                           |        |               | Period of Analysis |    |                              |               | 10.08.2023 - 11.08.2023 |                |  |
|                  |    |              |  |        |      |                           |        | Date of Issue |                    |    | :                            | 14.08.2023    |                         |                |  |
| Sampling Plan &  | :  | ENV/SOP/0    | Dev                                      | iation | froi | m the Sampling Method and | Plan   | :             | No                 | Ту | pe o                         | of Sample     |                         | Stack Emission |  |
| Procedure        |    |              |  |        |      |                           |        |               |                    |    |                              |               |                         |                |  |
| Sample Condition | :  | Sealed Sa    | ample ID N                               | lo.    | :    | ENV/17/Aug./A/XXXXI       | Report | No.           | :                  | EN | ENV/17/Aug./TR(A)/XXXXI/23-2 |               |                         | XXXXI/23-24    |  |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Finishing 4 - Electrode Line Dust Co   | ollector Stack (Stack – 51)  |   |    |     |  |  |  |
|------------------------------|---|--|--|---|----|-----|--|--|--|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.)                                | : | 17 | .5  |  |  |  |
| Materials of<br>Construction | : | M.S.   | (mtr.)   |   |    |     |  |  |  |
| Capacity                     | : | 40,000 m <sup>3</sup> /hr.   | 000 m <sup>3</sup> /hr. Height of sampling port (mtr.) (from G.L.) |   |    |     |  |  |  |
| Emission Due to              | : | Process Activity   |  |   |    |     |  |  |  |
| Fuel Used                    | : | Electrically Operated  | Permanent Platform & Ladder  | r | :  | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | The state of the s | The set  |   |    |     |  |  |  |
| Pollution Control Device     | : | Bag Filter   |  |   |    |     |  |  |  |

#### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 32.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | -  | : | 752.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS: 11255 (Part 3)                         | : | 8.21     | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 20245.77 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 23.55    | 30.0  |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | raphite India Ltd. |              |                           |                       |        |     |               |                    | try : Graphite Unit |            |     |                         |  |  |
|------------------|---|------------------|--------------------|--------------|---------------------------|-----------------------|--------|-----|---------------|--------------------|---------------------|------------|-----|-------------------------|--|--|
| Industry         |   |                  |                    |              |                           |                       |        |     |               |                    |                     | 4          |     |                         |  |  |
| Address          |   | P.O. – Sagarbhar | nga, Durga         | Pin – 713211 | San                       | Sampling Date : 07.08 |        |     |               |                    | 07.08.2023          | 07.08.2023 |     |                         |  |  |
|                  |   |                  |                    |              |                           |                       |        |     |               | Period of Analysis |                     |            |     | 10.08.2023 - 11.08.2023 |  |  |
|                  |   |                  |                    |              |                           |                       |        |     | Date of Issue |                    |                     |            |     |                         |  |  |
| Sampling Plan &  |   | ENV/SOP/01       | Deviation          | ı fror       | n the Sampling Method and | Plan                  |        | :   | No            | Ty                 | pe o                | of Sample  | :   | Stack Emission          |  |  |
| Procedure        |   |                  |                    |              |                           |                       |        |     |               |                    |                     |            |     |                         |  |  |
| Sample Condition | : | Sealed Sampl     | e ID No.           | :            | ENV/17/Aug./A/XXXXII      | Rep                   | port l | Vo. | :             | EN                 | V/:                 | 7/Aug./TR( | A)/ | XXXXII/23-24            |  |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | Finishing 4 - Nipple Line Dust Coll | ector Stack (Stack – 52)                   |   |    |     |  |  |  |
|-----------------------------|---|-------------------------------------|--|---|----|-----|--|--|--|
| Shape of Stack              | : | Circular                            | Height of Stack (mtr.) (from G. L.)        | : | 17 | .5  |  |  |  |
| Materials of Construction   | : | M.S.                                | (mtr.)                                     |   |    |     |  |  |  |
| Capacity                    | : | 30,000 m <sup>3</sup> /hr.          | Height of sampling port (mtr.) (from G.L.) | : | 14 | .0  |  |  |  |
| Emission Due to             | : | Process Activity                    |  |   |    |     |  |  |  |
| Fuel Used                   | : | Electrically Operated               | Permanent Platform & Ladder                | • | :  | Yes |  |  |  |
| Working Fuel<br>Consumption | : | -                                   | The second                                 |   |    |     |  |  |  |
| Pollution Control Device    | : | Bag Filter                          |  |   |    |     |  |  |  |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 33.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | -  | : | 752.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS: 11255 (Part 3)                         | : | 9.01     | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 17735.53 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 24.12    | 30.0  |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | ∡td.                    |      |                           | Type of       | of Inc | dustry |    | :    | Graphite Unit           |     |                |
|------------------|---|------------------|-------------------------|------|---------------------------|---------------|--------|--------|----|------|-------------------------|-----|----------------|
| Industry         |   | •                |                         |      |                           |               |        |        |    |      | 1                       |     |                |
| Address          | : | P.O. – Sagarbha  | nga, Durga <sub>l</sub> | our, | Pin - 713211              | Sampling Date |        |        |    | :    | 07.08.2023              |     |                |
|                  |   |                  |                         |      |                           |               |        |        |    | :    | 10.08.2023 - 11.08.2023 |     |                |
|                  |   |                  |                         |      |                           | Date of Issue |        |        |    | :    | 14.08.2023              |     |                |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation               | fro  | m the Sampling Method and | Plan          | :      | No     | Ту | pe o | of Sample               | :   | Stack Emission |
| Procedure        |   |                  |                         |      |                           |               |        |        |    |      |                         |     |                |
| Sample Condition | : | Sealed Samp      | le ID No.               | :    | ENV/17/Aug./A/XXXXIII     | Repor         | t No.  | :      | EN | VV/  | 17/Aug./TR(             | A)/ | XXXXIII/23-24  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | RH - 24 (III) E.S.P Stack (Stack - 53)     |  |   |    |     |  |  |
|-----------------------------|---|--|--|---|----|-----|--|--|
| Shape of Stack              | : | Circular                                   | Height of Stack (mtr.) (from G. L.)        | : | 45 | 5.0 |  |  |
| Materials of Construction   | : | M.S.                                       | Stack I.D. at sampling point (mtr.)        | : | 1. | 6   |  |  |
| Capacity                    | : | - Jan Alia                                 | Height of sampling port (mtr.) (from G.L.) |   |    |     |  |  |
| Emission Due to             | : | Combustion of C.B.M and Baking of Electroc | le & Nipple                                |   |    |     |  |  |
| Fuel Used                   | : | C.B.M                                      | Permanent Platform & Ladder                | - | :  | Yes |  |  |
| Working Fuel<br>Consumption | : | 120 m <sup>3</sup> /hr.                    | April 1997                                 |   |    |     |  |  |
| Pollution Control Device    | : | E.S.P                                      |  |   |    |     |  |  |

#### **B. RESULTS**

| SL. | PARAMETERS                       | PARAMETERS UNIT METHOD NO. |  |   |          |      |
|-----|----------------------------------|----------------------------|--|---|----------|------|
| NO. |                                  |                            |  |   |          |      |
| 1.  | Flue Gas Temperature             | оС                         | IS: 11255 (Part 1)   | : | 75.0     | N.A. |
| 2.  | Barometric Pressure              | mm of Hg.                  | The second secon | : | 752.0    | N.A. |
| 3.  | Velocity of Gas flow             | m/s                        | IS: 11255 (Part 3)   | : | 7.80     | N.A. |
| 4.  | Quantity of Gas flow             | Nm³/hr.                    | IS: 11255 (Part III)   | : | 47217.68 | N.A. |
| 5.  | Concentration of SO <sub>2</sub> | mg/Nm <sup>3</sup>         | IS 11255 (Part 2): 2019  | : | 54.80    | N.A. |
| 6.  | Concentration of NO <sub>x</sub> | mg/Nm <sup>3</sup>         | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 46.50    | N.A. |
|     |                                  |                            | Sec. 11 (Vol. 11.07) : 2017  |   |          |      |
| 7.  | Concentration of CO <sub>2</sub> | % (v/v)                    | IS 13270 : 2019  | : | 3.4      | N.A. |
| 8.  | Concentration of CO              | %(v/v)                     | IS 13270 : 2019  | : | <1.0     | 1.0  |
| 9.  | Concentration of Particulate     | mg/Nm <sup>3</sup>         | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 25.87    | 30.0 |
|     | Matter                           | <i>-</i>                   | 3685M-98 (reapproved 2005) : Sec. 11   |   |          |      |
|     |                                  |                            | (Vol.11.07): 2017  |   |          |      |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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Branch Office : Siliguri \* Haldis \* Durgspur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | Graphite India Ltd. |              |                           |                    |        |     |    |            | :          | Graphite Unit           |     |                |  |
|------------------|---|------------------|---------------------|--------------|---------------------------|--------------------|--------|-----|----|------------|------------|-------------------------|-----|----------------|--|
| Industry         |   |                  |                     |              |                           |                    |        |     |    |            |            |                         |     |                |  |
| Address          |   | P.O. – Sagarbhar | nga, Durga          | Pin - 713211 |                           | Sampling Date : 09 |        |     |    |            | 09.08.2023 |                         |     |                |  |
|                  |   |                  |                     |              |                           |                    |        |     |    | 3          |            | 10.08.2023 - 11.08.2023 |     |                |  |
|                  |   |                  |                     |              | Date of Issue             |                    |        |     |    | 14.08.2023 |            |                         |     |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | ı froi       | m the Sampling Method and | Pl                 | lan    |     | No | Ту         | pe o       | of Sample               | :   | Stack Emission |  |
| Procedure        |   |                  |                     |              |                           |                    |        |     |    |            |            |                         |     |                |  |
| Sample Condition | : | Sealed Sampl     | e ID No.            | :            | ENV/17/Aug./A/XXXXIV      |                    | Report | No. | :  | EN         | V/:        | 17/Aug./TR(             | A)/ | XXXXIV/23-24   |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (III) - Jaw Crusher Dust Co | ollector (Stack – 54)                      |   |    |     |  |  |  |
|------------------------------|---|-------------------------------------|--|---|----|-----|--|--|--|
| Shape of Stack               | : | Circular                            | Height of Stack (mtr.) (from G. L.)        | : | 22 | .0  |  |  |  |
| Materials of<br>Construction | : | M.S.                                | (mtr.)                                     |   |    |     |  |  |  |
| Capacity                     | : | Jila                                | Height of sampling port (mtr.) (from G.L.) | : | 14 | .0  |  |  |  |
| Emission Due to              | : | Process Activity                    |  |   |    |     |  |  |  |
| Fuel Used                    | : | Electrically Operated               | Permanent Platform & Ladden                |   | :  | Yes |  |  |  |
| Working Fuel<br>Consumption  | : | -                                   | 37/1-49                                    |   |    |     |  |  |  |
| Pollution Control Device     | : | Bag Filter                          |  |   |    |     |  |  |  |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS: 11255 (Part 1)                         | : | 43.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. |  | : | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS: 11255 (Part 3)                         | : | 9.88    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 9399.51 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part – 1) : 2019 & ASTM D 3685/D | : | 25.73   | 30.0  |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07) : 2017                         |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India L | Τ          | Type of Industry |                           |     |         | :    | Graphite Unit |    |                               |                         |   |                |
|------------------|---|------------------|------------|------------------|---------------------------|-----|---------|------|---------------|----|-------------------------------|-------------------------|---|----------------|
| Industry         |   |                  |            |                  |                           |     |         |      |               |    |                               |                         |   |                |
| Address          |   | P.O Sagarbhar    | nga, Durga | pur, i           | Pin - 713211              | S   | Samplir | ng D | ate           |    | :                             | 09.08.2023              |   |                |
|                  |   |                  |            |                  |                           |     |         |      |               | ;  | :                             | 10.08.2023 - 11.08.2023 |   |                |
|                  |   |                  |            |                  |                           | Γ   | Date of | Issı | ie            |    |                               | 14.08.2023              |   |                |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation  | ı froi           | m the Sampling Method and | Pla | an      | :    | No            | Ту | pe o                          | of Sample               | : | Stack Emission |
| Procedure        |   |                  |            |                  |                           |     |         |      |               |    |                               |                         |   |                |
| Sample Condition |   | Sealed Sampl     | e ID No.   | :                | ENV/17/Aug./A/XXXXV       | F   | Report  | No.  | :             | EN | ENV/17/Aug./TR(A)/XXXXV/23-24 |                         |   |                |

## A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (III) - Stock Cleaning Mech | anical Dust Collector (Stack – 55)         |   |    |     |  |
|------------------------------|---|-------------------------------------|--|---|----|-----|--|
| Shape of Stack               | : | Circular                            | Height of Stack (mtr.) (from G. L.)        | : | 22 | .0  |  |
| Materials of<br>Construction | : | M.S.                                | S. Stack I.D. at sampling point (mtr.)     |   |    |     |  |
| Capacity                     | : | - Alle                              | Height of sampling port (mtr.) (from G.L.) |   |    |     |  |
| Emission Due to              | : | Process Activity                    |  |   |    |     |  |
| Fuel Used                    | : | Electrically Operated               | Permanent Platform & Ladder                |   | :  | Yes |  |
| Working Fuel<br>Consumption  | : | -                                   | The M                                      |   |    |     |  |
| Pollution Control Device     | : | Bag Filter                          |  |   |    |     |  |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 38.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | -  | : | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 9.07    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 6091.20 | N.A.  |
| 5.         | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 24.10   | 30.0  |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07): 2017                          |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | aphite India Ltd. Type of Industry : Gr |        |                    |      |    |    |                           |                         |   | Graphite Unit  |  |  |  |
|-------------------------|---|------------------|---|--------|--------------------|------|----|----|---------------------------|-------------------------|---|----------------|--|--|--|
| Address                 | : | P.O. – Sagarbhai | nga, Durgapur, Pin – 713211             | Sa     | Sampling Date      |      |    |    |                           | 21.09.2023              |   |                |  |  |  |
|                         |   |                  |   | Pe     | Period of Analysis |      |    |    |                           | 23.09.2023 - 23.09.2023 |   |                |  |  |  |
|                         |   |                  |   | Da     | ate of l           | Issu | ıe |    | :                         | 25.09.2023              | } |                |  |  |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Method and  | d Plan | 1                  | :    | No | Ty | pe o                      | of Sample               |   | Stack Emission |  |  |  |
| Procedure               |   |                  |   |        |                    |      |    |    |                           |                         |   |                |  |  |  |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/I             | Re     | eport l            | No.  | :  | EN | ENV/93/Sep./TR(A)/I/23-24 |                         |   |                |  |  |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | :   | RH - 24 (III) Stock Cleaning Mechanic | al Dust Collector (Stack No.55)              |   |   |     |  |  |
|------------------------------|---|---------------------------------------|--|---|---|-----|--|--|
| Shape of Stack               | :   | Circular                              | Circular Height of Stack (mtr.) (from G. L.) |   |   |     |  |  |
| Materials of<br>Construction | Torring and the second |                                       |  |   |   | 50  |  |  |
| Capacity                     | : Height of sampling port (mtr.) (from G.L.)  |                                       |  |   |   | .0  |  |  |
| Emission Due to              | :   | Process Activity                      |  |   |   |     |  |  |
| Fuel Used                    | :   | Electrically Operated                 | Permanent Platform & Ladden                  | ſ | : | Yes |  |  |
| Working Fuel<br>Consumption  | :   | N.A.                                  | Mary Sept.                                   |   |   |     |  |  |
| Pollution Control Device     | :   | Bag Filter                            |  |   |   |     |  |  |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                               | UNIT               | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|--|--------------------|--|---|----------|-------|
| 1.         | Flue Gas Temperature                     | оС                 | IS : 11255 (Part 1)                        | : | 33.0     | N.A.  |
| 2.         | Barometric Pressure                      | mm of Hg.          | -  |   | 750.0    | N.A.  |
| 3.         | Velocity of Gas flow                     | m/s                | IS : 11255 (Part 3)                        | : | 12.22    | N.A.  |
| 4.         | Quantity of Gas flow                     | Nm³/hr.            | IS : 11255 (Part III)                      | : | 11955.93 | N.A.  |
| 5          | Concentration of O <sub>2</sub> by Orsat | % (v/v)            | EPA Method 3 : 2017                        | : | 20.0     | N.A.  |
| 6.         | Concentration of Particulate             | mg/Nm <sup>3</sup> | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 9.54     | 30.0  |
|            | Matter                                   | - 77               | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |  |                    | (Vol.11.07): 2017                          |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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#### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | .td.                                   | Type o | f Inc | lustry |    | :                         | Graphite U              | nit |                |  |
|-------------------------|---|------------------|--|--------|-------|--------|----|---------------------------|-------------------------|-----|----------------|--|
| Address                 | : | P.O Sagarbhar    | nga, Durgapur, Pin – 713211            | Sampl  | ing [ | ate    |    | :                         | 21.09.2023              |     |                |  |
|                         |   |                  |  | Period | of A  | nalysi | S  | ••                        | 23.09.2023 - 23.09.2023 |     |                |  |
|                         |   |                  |  | Date o | f Iss | ue     |    | ••                        | 25.09.2023              | 3   |                |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Method and | Plan   | :     | No     | Ту | pe                        | of Sample               | :   | Stack Emission |  |
| Procedure               |   |                  |  |        |       |        |    |                           |                         |     |                |  |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/II           | Repor  | t No. | :      | EN | NV/93/Sep./TR(A)/II/23-24 |                         |     |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | :  | Finishing 4 - Nipple Dust Collector (St | tack No.52)                                   |     |    |     |
|-----------------------------|--|---|---|-----|----|-----|
| Shape of Stack              | :  | Circular                                | Height of Stack (mtr.) (from G. L.)           | :   | 17 | .5  |
| Materials of Construction   | : M.S. Stack I.D. at sampling point (mtr.) |   | :   | 3.0 | 5  |     |
| Capacity                    |  |   | Height of sampling port<br>(mtr.) (from G.L.) | :   | 14 | .0  |
| Emission Due to             | :  | Process Activity                        |   |     |    |     |
| Fuel Used                   | :  | Electrically Operated                   | Permanent Platform & Ladder                   |     | :  | Yes |
| Working Fuel<br>Consumption | :  | N.A.                                    | Marie and                                     |     |    |     |
| Pollution Control Device    | :  | Bag Filter                              |   |     |    |     |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT               | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|--------------------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС                 | IS : 11255 (Part 1)                        | : | 41.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg.          | -  |   | 753.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s                | IS : 11255 (Part 3)                        | : | 8.33     | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.            | IS : 11255 (Part III)                      | : | 15992.83 | N.A.  |
| 5          | Concentration of O2 by Orsat | % (v/v)            | EPA Method 3 : 2017                        | : | 20.0     | N.A.  |
| 6.         | Concentration of Particulate | mg/Nm <sup>3</sup> | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 9.23     | 30.0  |
|            | Matter                       | - 77               | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |                    | (Vol.11.07): 2017                          |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

#### Reviewed By:



Authorised Signatory:



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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







#### FORMAT NO: ENV/FM/38

| Name of the      | : | Graphite India I | Graphite India Ltd. |      |                           |         |      |        |   | :     | Graphite Unit              |   |                |  |
|------------------|---|------------------|---------------------|------|---------------------------|---------|------|--------|---|-------|----------------------------|---|----------------|--|
| Industry         |   |                  |                     |      |                           |         |      |        |   |       | -                          |   |                |  |
| Address          | : | P.O Sagarbha     | nga, Durgaj         | our, | Pin - 713211              | Sampli  | ng [ | ate    |   | :     | 21.09.2023                 |   |                |  |
|                  |   |                  |                     |      |                           | Period  | of A | nalysi | S | :     | 23.09.2023 - 23.09.2023    |   |                |  |
|                  |   |                  |                     |      |                           | Date of | Issi | ıe     |   | :     | 25.09.2023                 |   |                |  |
| Sampling Plan &  | : | ENV/SOP/01       | Deviation           | fro  | m the Sampling Method and | Plan    | :    | No     | T | ype ( | of Sample                  | : | Stack Emission |  |
| Procedure        |   |                  |                     |      |                           |         |      |        |   |       |                            |   |                |  |
| Sample Condition | : | Sealed Samp      | le ID No.           | :    | ENV/93/Sep./A/III         | Report  | No.  | :      | E | NV/   | NV/93/Sep./TR(A)/III/23-24 |   |                |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | :  | Finishing 4 – Electrode Line Dust Co | ollector (Stack No.51)              |   |    |     |
|------------------------------|--|--------------------------------------|-------------------------------------|---|----|-----|
| Shape of Stack               | :  | Circular                             | Height of Stack (mtr.) (from G. L.) | : | 17 | .5  |
| Materials of<br>Construction | : M.S. Stack I.D. at sampling point (mtr.)                 |                                      |                                     |   |    | 5   |
| Capacity                     | : 40,000 m³/hr. Height of sampling port (mtr.) (from G.L.) |                                      |                                     |   |    | .0  |
| Emission Due to              | :  | Process Activity                     |                                     |   |    |     |
| Fuel Used                    | :  | Electrically Operated                | Permanent Platform & Ladder         | 1 | :  | Yes |
| Working Fuel<br>Consumption  | :  | N.A.                                 | The second                          |   |    |     |
| Pollution Control Device     | :  | Bag Filter                           |                                     |   |    |     |

## **B. RESULTS**

| SL.<br>NO. | PARAMETERS                               | UNIT               | METHOD NO.                                 |     | RESULTS  | LIMIT |
|------------|--|--------------------|--|-----|----------|-------|
| 1.         | Flue Gas Temperature                     | оС                 | IS : 11255 (Part 1)                        | :   | 38.0     | N.A.  |
| 2.         | Barometric Pressure                      | mm of Hg.          | -  |     | 753.0    | N.A.  |
| 3.         | Velocity of Gas flow                     | m/s                | IS : 11255 (Part 3)                        | :   | 11.11    | N.A.  |
| 4.         | Quantity of Gas flow                     | Nm³/hr.            | IS : 11255 (Part III)                      | :   | 26917.49 | N.A.  |
| 5          | Concentration of O <sub>2</sub> by Orsat | % (v/v)            | EPA Method 3 : 2017                        | : - | 20.0     | N.A.  |
| 6.         | Concentration of Particulate             | mg/Nm <sup>3</sup> | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | :   | 12.82    | 30.0  |
|            | Matter                                   | - 77               | 3685M-98 (reapproved 2005) : Sec. 11       |     |          |       |
|            |  |                    | (Vol.11.07): 2017                          |     |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

#### Reviewed By:



## Authorised Signatory:



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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | .td.                                   | Type   | of Inc             | lustry |                            | :    | Graphite U              | nit        |                |  |
|-------------------------|---|------------------|--|--------|--------------------|--------|----------------------------|------|-------------------------|------------|----------------|--|
| Address                 | : | P.O Sagarbhar    | nga, Durgapur, Pin – 713211            | Samp   | ling I             | ate    |                            | :    | 22.09.2023              | 3          |                |  |
|                         |   |                  |  | Perio  | Period of Analysis |        |                            |      | 23.09.2023 - 23.09.2023 |            |                |  |
|                         |   |                  |  | Date o | of Iss             | ue     |                            | ••   | 25.09.2023              | 25.09.2023 |                |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Method and | Plan   | :                  | No     | Ту                         | pe ( | of Sample               | :          | Stack Emission |  |
| Procedure               |   |                  |  |        |                    |        |                            |      |                         |            |                |  |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/IV           | Repor  | t No.              | :      | ENV/93/Sep./TR(A)/IV/23-24 |      |                         |            | IV/23-24       |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (III) - Jaw Crusher Dust Collec  | tor (Stack No.54)  |   |    |     |  |  |
|------------------------------|---|--|--|---|----|-----|--|--|
| Shape of Stack               | : | Circular   | Height of Stack (mtr.) (from G. L.)  | : | 22 | .0  |  |  |
| Materials of<br>Construction | : | M.S.   | Stack I.D. at sampling point (mtr.)  |   |    |     |  |  |
| Capacity                     | : | and the same of th | Height of sampling port<br>(mtr.) (from G.L.)  |   |    |     |  |  |
| Emission Due to              | : | Process Activity   |  |   |    |     |  |  |
| Fuel Used                    | : | Electrically Operated  | Permanent Platform & Ladder  | 1 | :  | Yes |  |  |
| Working Fuel<br>Consumption  | : | N.A.   | Mary Street Street, Square, Sq |   |    |     |  |  |
| Pollution Control Device     | : | Bag Filter   |  |   |    |     |  |  |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                               | UNIT               | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|--|--------------------|--|---|---------|-------|
| 1.         | Flue Gas Temperature                     | оС                 | IS: 11255 (Part 1)                         | : | 41.0    | N.A.  |
| 2.         | Barometric Pressure                      | mm of Hg.          | -  |   | 753.0   | N.A.  |
| 3.         | Velocity of Gas flow                     | m/s                | IS : 11255 (Part 3)                        | : | 8.33    | N.A.  |
| 4.         | Quantity of Gas flow                     | Nm³/hr.            | IS : 11255 (Part III)                      | : | 7972.51 | N.A.  |
| 5          | Concentration of O <sub>2</sub> by Orsat | % (v/v)            | EPA Method 3 : 2017                        | : | 20.0    | N.A.  |
| 6.         | Concentration of Particulate             | mg/Nm <sup>3</sup> | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 21.51   | 30.0  |
|            | Matter                                   | - 77               | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |  |                    | (Vol.11.07): 2017                          |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



### Authorised Signatory:



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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | .td.                                   | Type o  | f Inc              | lustry |                           | :            | Graphite U              | nit |                |
|-------------------------|---|------------------|--|---------|--------------------|--------|---------------------------|--------------|-------------------------|-----|----------------|
| Address                 | : | P.O Sagarbhar    | nga, Durgapur, Pin – 713211            | Sampli  | ng I               | ate    |                           | :            | 22.09.2023              | 3   |                |
|                         |   |                  |  | Period  | Period of Analysis |        |                           |              | 23.09.2023 - 23.09.2023 |     |                |
|                         |   |                  |  | Date of | f Iss              | ıe     |                           | : 25.09.2023 |                         |     |                |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Method and | Plan    | :                  | No     | Ту                        | pe (         | of Sample               | :   | Stack Emission |
| Procedure               |   |                  |  |         |                    |        |                           |              |                         |     |                |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/V            | Report  | No.                |        | ENV/93/Sep./TR(A)/V/23-24 |              |                         |     | V/23-24        |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to           | : | Core Sampling Dust Collector (Stack No - 49) |  |   |     |     |
|-----------------------------|---|--|--|---|-----|-----|
| Shape of Stack              | : | Circular                                     | Height of Stack (mtr.) (from G. L.)        | : | 6.0 |     |
| Materials of Construction   | : | M.S.   | Stack I.D. at sampling point (mtr.)        | : | 0.2 | 5   |
| Capacity                    | : | -  | Height of sampling port (mtr.) (from G.L.) | : | 4.5 |     |
| Emission Due to             | : | Process Activity                             |  |   |     |     |
| Fuel Used                   | : | Electrically Operated                        | Permanent Platform & Ladder                | • | :   | Yes |
| Working Fuel<br>Consumption | : | N.A.   | Aller Sans                                 |   |     |     |
| Pollution Control Device    | : | Bag Filter                                   |  |   |     |     |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS | LIMIT |
|------------|------------------------------|-----------|--|---|---------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 36.0    | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | _  | : | 754.0   | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 11.07   | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 1869.45 | N.A.  |
| 5          | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 68.51   | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |         |       |
|            |                              |           | (Vol.11.07): 2017                          |   |         |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

Manager Concessions

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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | .td.                                   | Type  | of Inc             | dustry |                            | :  | Graphite U              | nit        |                |  |  |
|-------------------------|---|------------------|--|-------|--------------------|--------|----------------------------|----|-------------------------|------------|----------------|--|--|
| Address                 | : | P.O Sagarbhar    | nga, Durgapur, Pin – 713211            | Samp  | Sampling Date      |        |                            |    | 22.09.2023              |            |                |  |  |
|                         |   |                  |  | Perio | Period of Analysis |        |                            |    | 23.09.2023 - 23.09.2023 |            |                |  |  |
|                         |   |                  |  | Date  | of Iss             | ue     |                            | •  | 25.09.2023              | 25.09.2023 |                |  |  |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Method and | Plan  | :                  | No     | Ту                         | pe | of Sample               | :          | Stack Emission |  |  |
| Procedure               |   |                  |  |       |                    |        |                            |    |                         |            |                |  |  |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/VI           | Repo  | rt No.             |        | ENV/93/Sep./TR(A)/VI/23-24 |    |                         |            | VI/23-24       |  |  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Mixture Fume Extractor (North) Ex | trusion Dept. (Stack No.1)                    |   |     |     |
|------------------------------|---|-----------------------------------|---|---|-----|-----|
| Shape of Stack               | : | Circular                          | Height of Stack (mtr.) (from G. L.)           | : | 30  | .0  |
| Materials of<br>Construction | : | M.S.                              | Stack I.D. at sampling point (mtr.)           | : | 0.7 | 72  |
| Capacity                     | : |                                   | Height of sampling port<br>(mtr.) (from G.L.) | : | 26  | .0  |
| Emission Due to              | : | Process Activity                  |   |   |     |     |
| Fuel Used                    | : | Electrically Operated             | Permanent Platform & Ladder                   | ſ | :   | Yes |
| Working Fuel<br>Consumption  | : | N.A.                              | The self                                      |   |     |     |
| Pollution Control Device     | : | Bag Filter                        |   |   |     |     |

### **B. RESULTS**

| SL.<br>NO. | PARAMETERS                   | UNIT      | METHOD NO.                                 |   | RESULTS  | LIMIT |
|------------|------------------------------|-----------|--|---|----------|-------|
| 1.         | Flue Gas Temperature         | оС        | IS : 11255 (Part 1)                        | : | 47.0     | N.A.  |
| 2.         | Barometric Pressure          | mm of Hg. | _  | : | 754.0    | N.A.  |
| 3.         | Velocity of Gas flow         | m/s       | IS : 11255 (Part 3)                        | : | 14.56    | N.A.  |
| 4.         | Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)                      | : | 19695.29 | N.A.  |
| 5          | Concentration of Particulate | mg/Nm³    | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D | : | 50.54    | 150.0 |
|            | Matter                       |           | 3685M-98 (reapproved 2005) : Sec. 11       |   |          |       |
|            |                              |           | (Vol.11.07): 2017                          |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

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**Authorised Signatory:** 

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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India I | td.              |                           | Type o  | f Ind | lustry |                             | :            | Graphite U              | nit |                |
|-------------------------|---|------------------|------------------|---------------------------|---------|-------|--------|-----------------------------|--------------|-------------------------|-----|----------------|
| Address                 | : | P.O. – Sagarbhai | nga, Durgapur, l | Pin - 713211              | Sampli  | ng D  | ate    |                             | :            | 22.09.2023              | }   |                |
|                         |   |                  |                  |                           |         |       |        | S                           | :            | 23.09.2023 - 23.09.2023 |     |                |
|                         |   |                  |                  |                           | Date of | Issu  | ıe     |                             | : 25.09.2023 |                         |     |                |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from   | m the Sampling Method and | Plan    | :     | No     | Ty                          | pe o         | of Sample               | :   | Stack Emission |
| Procedure               |   |                  |                  |                           |         |       |        |                             |              |                         |     |                |
| Sample Condition        | : | Sealed Sampl     | e ID No. :       | ENV/93/Sep./A/VII         | Report  | No.   | :      | ENV/93/Sep./TR(A)/VII/23-24 |              |                         |     | VII/23-24      |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | Extrusion - 2, Scrap System Dust Colle | ector (Stack No.35)                        |   |     |     |
|------------------------------|---|--|--|---|-----|-----|
| Shape of Stack               | : | Circular                               | Height of Stack (mtr.) (from G. L.)        | : | 17  | .0  |
| Materials of<br>Construction | : | M.S.                                   | Stack I.D. at sampling point (mtr.)        | : | 0.6 | 5   |
| Capacity                     | : | an Allin                               | Height of sampling port (mtr.) (from G.L.) |   |     |     |
| Emission Due to              | : | Process Activity                       |  |   |     |     |
| Fuel Used                    | : | Electrically Operated                  | Permanent Platform & Ladder                | r | :   | Yes |
| Working Fuel<br>Consumption  | : | N.A.                                   | Mary Sept.                                 |   |     |     |
| Pollution Control Device     | : | Bag Filter                             |  |   |     |     |

### **B. RESULTS**

| PARAMETERS                   | UNIT  | METHOD NO.   |  | RESULTS  | LIMIT  |
|------------------------------|---|--|--|--|--|
| Flue Gas Temperature         | оС  | IS : 11255 (Part 1)  | :  | 48.0   | N.A.   |
| Barometric Pressure          | mm of Hg.   | -  | :  | 754.0  | N.A.   |
| Velocity of Gas flow         | m/s   | IS : 11255 (Part 3)  | :  | 16.42  | N.A.   |
| Quantity of Gas flow         | Nm³/hr.   | IS : 11255 (Part III)  | :  | 18001.38   | N.A.   |
| Concentration of Particulate | mg/Nm³  | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D   | :  | 59.56  | 150.0  |
| Matter                       |   | 3685M-98 (reapproved 2005) : Sec. 11   |  |  |  |
|                              |   | (Vol.11.07): 2017  |  |  |  |
|                              | Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Concentration of Particulate  OC  mm of Hg.  m/s  Nm³/hr.  mg/Nm³ | Flue Gas Temperature  Barometric Pressure  Velocity of Gas flow  Quantity of Gas flow  Nm³/hr.  Concentration of Particulate  Matter  OC  IS: 11255 (Part 1)  IS: 11255 (Part 3)  IS: 11255 (Part 3)  IS: 11255 (Part III)  IS 11255 (Part - 1): 2019 & ASTM D 3685/D  3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature         °C         IS: 11255 (Part 1)         :           Barometric Pressure         mm of Hg.          :           Velocity of Gas flow         m/s         IS: 11255 (Part 3)         :           Quantity of Gas flow         Nm³/hr.         IS: 11255 (Part III)         :           Concentration of Particulate         mg/Nm³         IS 11255 (Part - 1): 2019 & ASTM D 3685/D         :           Matter         3685M-98 (reapproved 2005): Sec. 11 | Flue Gas Temperature       °C       IS: 11255 (Part 1)       : 48.0         Barometric Pressure       mm of Hg.        : 754.0         Velocity of Gas flow       m/s       IS: 11255 (Part 3)       : 16.42         Quantity of Gas flow       Nm³/hr.       IS: 11255 (Part III)       : 18001.38         Concentration of Particulate       mg/Nm³       IS 11255 (Part - 1): 2019 & ASTM D 3685/D       : 59.56         Matter       3685M-98 (reapproved 2005): Sec. 11 |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

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Service Chicanicary Se Quality Stronger **Authorised Signatory:** 

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Branch Office : Siliguri \* Haldia \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/38

| Name of the<br>Industry | : | Graphite India L | .td.                             |        | Type o        | f Ind | lustry |                              | :    | Graphite U | nit   |                |
|-------------------------|---|------------------|----------------------------------|--------|---------------|-------|--------|------------------------------|------|------------|-------|----------------|
| Address                 | : | P.O Sagarbhar    | nga, Durgapur, Pin – 713211      |        | Sampli        | ng D  | ate    |                              | :    | 22.09.2023 |       |                |
|                         |   |                  |                                  |        | Period        | of A  | nalysi | S                            | :    | 23.09.2023 | 3 – 2 | 3.09.2023      |
|                         |   |                  |                                  |        | Date of Issue |       |        |                              |      | 25.09.2023 | }     |                |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation from the Sampling Meth | od and |               |       |        | Ту                           | pe o | of Sample  | :     | Stack Emission |
| Procedure               |   |                  |                                  |        |               |       |        |                              |      |            |       |                |
| Sample Condition        | : | Sealed Sampl     | le ID No. : ENV/93/Sep./A/V      | III    | Report        | No.   |        | ENV/93/Sep./TR(A)/VIII/23-24 |      |            |       |                |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| Stack Attached to            | : | RH - 24 (III) ESP Stack (Stack No. 53) |  |   |     |     |
|------------------------------|---|--|--|---|-----|-----|
| Shape of Stack               | : | Circular                               | Height of Stack (mtr.) (from G. L.)        | : | 45  | .0  |
| Materials of<br>Construction | : | M.S.                                   | Stack I.D. at sampling point (mtr.)        | : | 1.6 |     |
| Capacity                     | : |  | Height of sampling port (mtr.) (from G.L.) | : | 30  | .0  |
| Emission Due to              | : | Process Activity                       |  |   |     |     |
| Fuel Used                    | : | Electrically Operated                  | Permanent Platform & Ladder                | 1 | :   | Yes |
| Working Fuel<br>Consumption  | : | N.A.                                   | A STATE SHOWING                            |   |     |     |
| Pollution Control Device     | : | E.S.P                                  |  |   |     |     |

### **B. RESULTS**

| SL. | PARAMETERS                               | UNIT               | METHOD NO.   |   | RESULTS  | LIMIT |
|-----|--|--------------------|--|---|----------|-------|
| NO. | 0.76                                     |                    |  |   |          |       |
| 1.  | Flue Gas Temperature                     | оС                 | IS : 11255 (Part 1)  | : | 8.5      | N.A.  |
| 2.  | Barometric Pressure                      | mm of Hg.          | Marine Comment of the | : | 753.0    | N.A.  |
| 3.  | Velocity of Gas flow                     | m/s                | IS: 11255 (Part 3)   | : | 8.89     | N.A.  |
| 4.  | Quantity of Gas flow                     | Nm³/hr.            | IS: 11255 (Part III)   | : | 52052.39 | N.A.  |
| 5.  | Concentration of SO <sub>2</sub>         | mg/Nm <sup>3</sup> | IS 11255 (Part 2) : 2019   | : | 80.56    | N.A.  |
| 6.  | Concentration of NO <sub>x</sub>         | mg/Nm <sup>3</sup> | IS 11255 (Part 7): 2017 / ASTM D 1608-98,  | : | 47.43    | N.A.  |
|     |  |                    | Sec. 11 (Vol. 11.07) : 2017  |   |          |       |
| 7.  | Concentration of CO <sub>2</sub>         | % (v/v)            | IS 13270 : 2019  | : | 3.6      | N.A.  |
| 8.  | Concentration of O <sub>2</sub> by Orsat | % (v/v)            | EPA Method 3 : 2017  | : | 14.8     | N.A.  |
| 9.  | Concentration of CO                      | %(v/v)             | IS 13270 : 2019  | : | <1.0     | 1.0   |
| 10. | Concentration of Particulate             | mg/Nm <sup>3</sup> | IS 11255 (Part - 1): 2019 & ASTM D 3685/D  | : | 20.64    | 30.0  |
|     | Matter                                   | o,                 | 3685M-98 (reapproved 2005) : Sec. 11   |   |          |       |
|     |  |                    | (Vol.11.07): 2017  |   |          |       |

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].

: N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



**Authorised Signatory:** 



H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 \* Ph. 033 25792891/ 25497490 \* Fax : 033 25299141

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E-mail : Info@envirocheck.in / envirocheck50@gmail.com \* Website : www.envirocheck.in

Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi









### STATEMENT OF STACK EMISSION DETAILS FOR THE YEAR AUGUST-2023

M/s. Graphite India Ltd.

Date of Sampling: 03.08.2023 to 09.08.2023

| Sl.<br>No. | Stack Attached to   | Stack<br>No. | Fuel (Type & Quantity) | Inner dia<br>(mm) | Height from ground (mm) | Height of<br>sampling port<br>from GL (mm) | Gas<br>Temp.<br>0C | Flow Rate of gas NM3/hr | PM<br>mg/NM³ | SO <sub>2</sub><br>mg/NM <sup>3</sup> | Nox<br>mg/NM3 | CO <sub>2</sub> (%) | Velocity<br>(m/s) | Other<br>Pollutants<br>if any | Description of Air<br>Pollution control<br>devices if any |
|------------|---|--------------|------------------------|-------------------|-------------------------|--|--------------------|-------------------------|--------------|---------------------------------------|---------------|---------------------|-------------------|-------------------------------|---|
| 1          | Mixture Fume Extractor (North)<br>(Extrusion #1 Dept)             | 1            | Electricity            | 720               | 30000                   | 26000                                      | 44                 | 20441.53                | 132.52       | -                                     | -             | -                   | 14.97             | N.A.                          | Nil   |
| 2          | Mixture Fume Extractor (South)<br>(Extrusion#1 Dept)              | 2            | Electricity            | 406x406           | 30000                   | 16000                                      | 48                 | 6510.01                 | 45.11        | -                                     | -             | -                   | 11.90             | N.A.                          | Nil   |
| 3          | Cooler North (Extrusion#1 Dept)                                   | 3            | Electricity            | 550               | 30000                   | 15000                                      | 40                 | 9972.82                 | 12.88        | -                                     | -             | -                   | 12.36             | N.A.                          | Nil   |
| 4          | Cooler South (Extrusion#1 Dept)                                   | 4            | Electricity            |                   |                         |  |                    | Pr                      | oduction U   | Init Not In                           | Operation     |                     |                   | N.A.                          | Nil   |
| 5          | Fume Extractor (West side) weigh floor (Extrusion#1 Dept)         | 5            | Electricity            | 780               | 30000                   | 26000                                      |                    | Pr                      | oduction U   | Init Not In                           | Operation     |                     |                   | N.A.                          | Bag Filter  |
| 6          | Raymond Mill Dust Collector<br>(Extrusion#1 Dept)                 | 6            | Electricity            | 300x300           | 16000                   | 7000                                       | 37                 | 2556.40                 | 8.50         | -                                     | -             | -                   | 8.27              | N.A.                          | Bag Filter  |
| 7          | Scrap System Dust Collector<br>(Extrusion#1 Dept)                 | 7            | Electricity            | 600               | 7100                    | 5600                                       | 33                 | 17005.67                | 14.20        | -                                     | -             | -                   | 17.75             | N.A.                          | Bag Filter  |
| 8          | Main Dust Collector (Extrusion#1<br>Dept)                         | 8            | Electricity            | 700               | 22000                   | 15000                                      | 31                 | 24646.29                | 18.30        | -                                     | -             | -                   | 18.32             | N.A.                          | Bag Filter  |
| 9          | Baking Milling Dust Collector                                     | 9            | -                      |                   |                         |  |                    | -                       | RC Baki      | ng Unit Ob                            | solete        |                     |                   | N.A.                          | -   |
| 10         | Baking Furnace (Fee. 1 to 5 side)                                 | 10           | -                      |                   |                         |  |                    |                         | RC Baki      | ng Unit Ob                            | solete        |                     |                   | N.A.                          | -   |
| 11         | Baking Furnace (Fee. 6 to 10 side)                                | 11           | -                      |                   |                         |  |                    |                         | RC Baki      | ng Unit Ob                            | solete        |                     |                   | N.A.                          | -   |
| 12         | Ried Hammer Furnace (Baking<br>Furnace) (14 SECTION)              | 12           | СВМ                    | 800               | 30000                   | 10500                                      | 72                 | 15825.52                | 46.81        | 64.50                                 | 53.80         | 3.8                 | 10.25             | N.A.                          | E.S.P   |
| 13         | Ried Hammer Furnace (Baking<br>Furnace)(RH16 & RH24-I<br>SECTION) | 13           | СВМ                    | 1800              | 45000                   | 33000                                      | 86                 | 93918.58                | 84.27        | 74.20                                 | 79.50         | 3.6                 | 12.49             | N.A.                          | E.S.P   |
| 14         | P.I. UNIT- 2 (THERMOPACK<br>STACK)                                | 16           | СВМ                    | 400               | 30000                   | 28000                                      | 67                 | 3369.80                 | 62.58        | 69.50                                 | 76.20         | 3.2                 | 8.62              | N.A.                          | Nil   |
| 15         | P.I. UNIT- 2 (HGG STACK)  | 17           | СВМ                    | 400               | 30000                   | 28000                                      | 45                 | 4138.92                 | 56.01        | 50.20                                 | 58.50         | 3.2                 | 9.84              | N.A.                          | Water spray Cooling<br>Chamber                            |
| 16         | Finishing Dust Collector (North)<br>(Unit 1)                      | 19           | Electricity            | 700               | 13000                   | 4200                                       | 33                 | 25039.99                | 140.21       | -                                     | -             | -                   | 18.76             | N.A.                          | Bag Filter  |









| Sl.<br>No. | Stack Attached to  | Stack<br>No. | Fuel (Type & Quantity)              | Inner dia<br>(mm) | Height from ground (mm) | Height of<br>sampling port<br>from GL (mm) | Gas<br>Temp.<br>0C | Flow Rate of gas NM3/hr | PM<br>mg/NM <sup>3</sup> | SO2        | Nox<br>mg/NM3 | CO <sub>2</sub> | Velocity<br>(m/s) | Other<br>Pollutants<br>if any | Description of Air<br>Pollution control<br>devices if any |
|------------|--|--------------|-------------------------------------|-------------------|-------------------------|--|--------------------|-------------------------|--------------------------|------------|---------------|-----------------|-------------------|-------------------------------|---|
| 17         | Finishing Dust Collector (Unit 2)                        | 20           | Electricity                         | 900               | 15000                   | 11000                                      | 39                 | 32162.10                | 54.28                    | -          | -             | -               | 14.86             | N.A.                          | Bag Filter  |
| 18         | FINE SCREENING DUST<br>COLLECTOR                         | 21           | Electricity                         | 560               | 9750                    | 6700                                       | 39                 | 15867.62                | 97.97                    | -          | -             | -               | 18.93             | N.A.                          | Bag Filter  |
| 19         | Boiler (1.5 Ton/ 2Ton) 2 Ton<br>Running                  | 22           | CBM<br>(86 m <sup>3</sup> /Hr.)     | 280               | 29290                   | 13500                                      | 156                | 1311.90                 | 24.53                    | 116.50     | 80.10         | 3.6             | 8.65              | N.A.                          | Nil   |
| 20         | Tunnel Kiln – 1 (Re-baking Furnace)                      | 23           | CBM<br>(140 Kg./Hr.)                | 730               | 30000                   | 18000                                      | 198                | 5997.81                 | 77.65                    | 96.50      | 81.20         | 3.4             | 6.42              | N.A.                          | Incinerator   |
| 21         | Finishing Dust Collector (Unit 3)                        | 24           | Electricity                         | 780               | 13000                   | 9000                                       | 32                 | 13661.35                | 25.65                    | -          | -             | -               | 8.20              | N.A.                          | Bag Filter  |
| 22         | P.I. Unit – 3 (HGG STACK)                                | 25           | СВМ                                 | 400               | 30000                   | 28000                                      | 42                 | 4377.15                 | 30.59                    | 72.50      | 51.20         | 3.4             | 10.51             | N.A.                          | Water Spray<br>Cooling Chamber                            |
| 23         | Tunnel Kiln – 2 (Re-baking<br>Furnace)                   | 26           | CBM<br>(140 Kg./Hr.)                | 730               | 30000                   | 18000                                      |                    | Pr                      | oduction U               | nit Not In | Operation     |                 |                   | N.A.                          | Incinerator   |
| 24         | P.I. Unit – 3 (THERMOPACK<br>STACK)                      | 27           | СВМ                                 | 400               | 30000                   | 28000                                      | 70                 | 3664.55                 | 41.50                    | 68.20      | 47.50         | 3.8             | 9.47              | N.A.                          | Nil   |
| 25         | Extrusion -2 Department Thermic Flueid Heater            | 28           | CBM<br>(138.4 Nm <sup>3</sup> /Hr.) | 580               | 30000                   | 20000                                      | 75                 | 6216.95                 | 12.81                    | 48.50      | 26.80         | 3.8             | 7.79              | N.A.                          | Nil   |
| 26         | Extrusion #2 IRICH Dust<br>Collector                     | 29           | Electricity                         | 300               | 34000                   | 28000                                      | 45                 | 1769.08                 | 43.00                    | -          | -             | -               | 7.49              | N.A.                          | Bag Filter  |
| 27         | Extrusion #2 Main Dust Collector                         | 30           | Electricity                         | 1000              | 34000                   | 33000                                      | 37                 | 27190.29                | 59.18                    | -          | -             | -               | 10.47             | N.A.                          | Bag Filter  |
| 28         | Extrusion #2 Raymond Mill Dust<br>Collector              | 31           | Electricity                         | 230               | 12500                   | 10500                                      | 36                 | 1292.92                 | 85.57                    | -          | -             | -               | 9.05              | N.A.                          | Bag Filter  |
| 29         | Extrusion #2 Silo Dust Collector                         | 32           | Electricity                         | 600               | 15000                   | 7000                                       | 37                 | 12417.25                | 14.56                    | -          | -             | -               | 12.82             | N.A.                          | Bag Filter  |
| 30         | Extrusion #2 IRICH (Trema)<br>Scrubber System            | 33           | Electricity                         | 280               | 8000                    | 7000                                       | 56                 | 11116.46                | 13.43                    | -          | -             | -               | 56.74             | N.A.                          | Scrubber System   |
| 31         | Acheson Dust Collector                                   | 34           | Electricity                         | 800x320           | 18000                   | 10500                                      | 36                 | 13029.35                | 131.95                   | -          | -             | -               | 14.77             | N.A.                          | Bag Filter  |
| 32         | Extrusion #2 Scrap system Dust collector                 | 35           | Electricity                         | 650               | 17000                   | 8900                                       | 46                 | 18506.87                | 138.23                   | -          | -             | -               | 16.80             | N.A.                          | Bag Filter  |
| 33         | R.H24 (II) Furnace                                       | 36           | CBM<br>(70 m³/Hr.)                  | 1600              | 45000                   | 33000                                      | 95                 | 64977.98                | 17.12                    | 62.50      | 49.20         | 3.4             | 11.35             | N.A.                          | E.S.P   |
| 34         | Finishing Unit – 3 (South Side)<br>Nipple Dust Collector | 37           | Electricity                         | 700               | 15000                   | 8000                                       | 34                 | 9842.07                 | 78.94                    | -          | -             | -               | 7.36              | N.A.                          | Bag Filter  |









|    | Stack Attached to   | Stack<br>No. | Fuel (Type & Quantity)           | Inner dia<br>(mm) | Height from ground (mm) | Height of<br>sampling port<br>from GL (mm) | Gas<br>Temp.<br>0C | Flow Rate of gas NM3/hr | PM<br>mg/NM <sup>3</sup> | SO <sub>2</sub><br>mg/NM <sup>3</sup> | Nox<br>mg/NM3 | CO <sub>2</sub> (%) | Velocity<br>(m/s) | Other<br>Pollutants<br>if any | Description of Air<br>Pollution control<br>devices if any |
|----|---|--------------|----------------------------------|-------------------|-------------------------|--|--------------------|-------------------------|--------------------------|---------------------------------------|---------------|---------------------|-------------------|-------------------------------|---|
| 35 | Finishing Unit – 2 Nipple line<br>Dust Collector          | 38           | Electricity                      | 610               | 11580                   | 9140                                       |                    | Pr                      | oduction U               | Init Not In                           | Operation     |                     |                   | N.A.                          | Bag Filter  |
| 36 | R.H16 Stock Cleaning Machine<br>Dust Collector            | 39           | Electricity                      | 400 × 600         | 10000                   | 7000                                       | 43                 | 7397.79                 | 41.87                    | -                                     | -             | -                   | 9.15              | N.A.                          | Bag Filter  |
| 37 | R.H24 (II) Stock Cleaning<br>Machine Dust Collector       | 40           | Electricity                      | 650               | 30000                   | 15000                                      | 47                 | 8284.41                 | 90.85                    | -                                     | -             | -                   | 7.51              | N.A.                          | Bag Filter  |
| 38 | Turning-1 Dust Collector                                  | 41           | Electricity                      | 250               | 15000                   | 3000                                       | 44                 | 1505.56                 | 35.24                    | -                                     | -             | -                   | 9.16              | N.A.                          | Bag Filter  |
| 39 | P.I2 Turning Machine Dust<br>Collector                    | 42           | Electricity                      | 250               | 15000                   | 3000                                       | 46                 | 1062.85                 | 71.32                    | -                                     | -             | -                   | 6.50              | N.A.                          | Bag Filter  |
| 40 | P.I-3 Turning Machine Dust<br>Collector                   | 43           | Electricity                      | 250               | 15000                   | 3000                                       | 34                 | 1082.53                 | 83.17                    | -                                     | -             | -                   | 6.37              | N.A.                          | Bag Filter  |
| 41 | P.I Unit- 4 (THERMOPACK<br>STACK)                         | 44           | CBM<br>(100 m <sup>3</sup> /Hr.) | 950               | 30500                   | 18800                                      | 138                | 10899.39                | 125.71                   | 110.50                                | 76.50         | 3.6                 | 5.99              | N.A.                          | Nill  |
| 42 | P.I4 Pre-Heater   | 45           | CBM<br>(60 m <sup>3</sup> /Hr.)  | 1150              | 35800                   | 21200                                      | 35                 | 18431.05                | 23.90                    | 61.50                                 | 42.60         | 3.6                 | 5.18              | N.A.                          | Nil   |
| 43 | RH-24 (II) Jaw Crusher Machine<br>Dust Collector          | 46           | Electricity                      | 480               | 22000                   | 10000                                      | 32                 | 5148.53                 | 52.32                    | -                                     | -             | -                   | 8.21              | N.A.                          | Bag Filter  |
| 44 | Ried Hammer-16<br>Jaw Crusher Dust Collector              | 47           | Electricity                      | 800               | 12000                   | 6400                                       | 42                 | 12648.89                | 39.87                    | -                                     | -             | -                   | 7.45              | N.A.                          | Bag Filter  |
| 45 | R.H24 (I) Stock Cleaning Dust<br>Collector                | 48           | Electricity                      | 300               | 10670                   | 4570                                       | 40                 | 2359.50                 | 52.78                    | -                                     | -             | -                   | 9.84              | N.A.                          | Bag Filter With<br>Cyclone Separator                      |
| 46 | Core Sampling Dust Collector                              | 49           | Electricity                      | 250               | 6000                    | 4500                                       | 35                 | 1972.65                 | 43.75                    | -                                     | -             | -                   | 11.66             | N.A.                          | Bag Filter With<br>Cyclone Separator                      |
| 47 | CBS Dust Collector  | 50           | Electricity                      | 600               | 12000                   | 5000                                       | 43                 | 20114.48                | 27.37                    | -                                     | -             | -                   | 21.12             | N.A.                          | Bag Filter  |
| 48 | Finishing - 4, Electrode Line Dust<br>Collector Stack     | 51           | Electricity                      | 950               | 17500                   | 14000                                      | 32                 | 20245.77                | 23.55                    | -                                     | -             | -                   | 8.21              | N.A.                          | Bag Filter  |
| 49 | Finishing - 4, Nipple Line Dust<br>Collector Stack        | 52           | Electricity                      | 850               | 17500                   | 14000                                      | 33                 | 17735.53                | 24.12                    | -                                     | -             | -                   | 9.01              | N.A.                          | Bag Filter  |
| 50 | RH - 24 (III) E.S.P. Stack                                | 53           | CBM                              | 1600              | 45000                   | 30000                                      | 75                 | 47217.68                | 25.87                    | 54.80                                 | 46.50         | 3.4                 | 7.80              | N.A.                          | E.S.P   |
| 51 | RH - 24 (III) Jaw Crusher Dust<br>Collector               | 54           | Electricity                      | 600               | 22000                   | 14000                                      | 43                 | 9399.51                 | 25.73                    | -                                     | -             | -                   | 9.88              | N.A.                          | Bag Filter  |
| 52 | RH - 24 (III) Stock Cleaning<br>Mechanical Dust Collector | 55           | Electricity                      | 500               | 22000                   | 14000                                      | 38                 | 6091.20                 | 24.10                    | -                                     | -             | -                   | 9.07              | N.A.                          | Bag Filter  |

Sema -

Checked By: D. Chakraborty
Dy. Quality Manager
Envirocheck





For, Envirocheck
Dr. Ajoy Paul
Quality Manager

Limit: SPM = 150 mg/Nm<sup>3</sup>, Ref.: Consent of operate under section 25 & 26 of the Water (Prevention and Control of Pollution) Act.1974 & Sec.21 of the Air (Prevention and Control of Pollution) Act.1981, Consent letter No.







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite India | Ltd.        |      |                           | Type of I                                | Indi     | ustry | :    | (            | Graphite Un | nit                     |             |           |
|------------------------------|---|----------------|-------------|------|---------------------------|--|----------|-------|------|--------------|-------------|-------------------------|-------------|-----------|
| Address                      | : | P.O Sagarbha   | nga, Durgaj | our, | Pin - 713211              |  | Sampling | g Da  | ate  | :            | (           | 08.08.2023 - 09.08.2023 |             |           |
|                              |   |                |             |      | Period of Analysis        |  |          |       |      |              | 1           | 10.08.2023              | - 1         | 1.08.2023 |
|                              |   |                |             |      |                           | Date of Issue                            |          |       |      | :            | 1           | 14.08.2023              |             |           |
| Sampling Plan &<br>Procedure | : | ENV/SOP/01     | Deviation   | fro  | m the Sampling Method and |  |          |       | Туре | of           | Sample      |                         | Ambient Air |           |
| Sample Condition             | : | Sealed Samp    | le ID No.   | :    | ENV/17/Aug./A/XXXXVI      | XVI Report No. : ENV/17/Aug./TR(A)/XXXXV |          |       |      | XXXXVI/23-24 |             |                         |             |           |

### A] GENERAL INFORMATION

1. Location of Sampling : East Side (Outside of Boundary Wall of Old Graphite Plant)

2. Duration of Sampling : 24 hrs. (09:00 a.m. – 09:00 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 71.0

3. Barometric Pressure (mm of Hg) : 753.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear sky

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT  | METHOD NO.                               | RESULTS | LIMIT |
|------------|------------------------------------|-------|--|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³ | IS 5182 (Part 24) : 2019                 | 56.32   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³ | IS 5182 (PART 23) : 2019                 | 89.11   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 19.07   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 38.77   | 80.0  |
|            |                                    | 1     | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.         | Concentration of CO                | mg/m³ | IS 5182 (Part 10) : 2019                 | 0.48    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



### **Authorised Signatory:**



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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite I  | raphite India Ltd. |   |     |               |           |       |                |      | lustry                         |   | :              | Graphite U | nit |             |
|------------------------------|---|-------------|--------------------|---|-----|---------------|-----------|-------|----------------|------|--------------------------------|---|----------------|------------|-----|-------------|
| Address                      | : | P.O. – Saga | arbhar             | ıga, Durgap                                 |     | Sampling Date |           |       |                | :    | 08.08.2023 - 09.08.2023        |   |                |            |     |             |
|                              |   |             |                    |   |     |               |           |       | Period         | of A | nalysi                         | s | :              | 10.08.2023 | - 1 | 1.08.2023   |
|                              |   |             |                    |   |     |               |           |       | Date of Issue  |      |                                |   |                | 14.08.2023 |     |             |
| Sampling Plan &<br>Procedure | : | ENV/SOP/    | /01                | Deviation                                   | fro | m the Sampli  | ng Method | and l | d Plan : No Ty |      |                                |   | Type of Sample |            |     | Ambient Air |
| Sample Condition             | : | Sealed S    | Sampl              | e ID No. : ENV/17/Aug./A/XXXXVII Report No. |     |               |           |       | :              | EN   | IV/17/Aug./TR(A)/XXXXVII/23-24 |   |                |            |     |             |

### A] GENERAL INFORMATION

1. Location of Sampling : South Side (Outside of Boundary Wall of Old Plant)

2. Duration of Sampling : 24 hrs. (10:00 a.m. – 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature  $({}^{0}C)$  : 28.0

Average Relative Humidity (%) : 71.0
 Barometric Pressure (mm of Hg) : 753.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear sky

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT  | METHOD NO.                               | RESULTS | LIMIT |
|------------|------------------------------------|-------|--|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³ | IS 5182 (Part 24) : 2019                 | 51.31   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³ | IS 5182 (PART 23) : 2019                 | 84.21   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 16.14   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 32.57   | 80.0  |
|            |                                    | 1     | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.         | Concentration of CO                | mg/m³ | IS 5182 (Part 10) : 2019                 | 0.62    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

Marina Chacasicary St. Quality Heavager

### **Authorised Signatory:**



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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite | India I  | ∡td.        |       | •                            | Type of            | Ind           | ustry |                | :              | Graphite U | nit        |             |           |
|------------------------------|---|----------|--|-------------|-------|------------------------------|--------------------|---------------|-------|----------------|----------------|------------|------------|-------------|-----------|
| Address                      | : | P.O Sa   | garbha   | nga, Durgaj | pur,  | Pin - 713211                 |                    | Sampling Date |       |                |                | :          | 08.08.2023 | 9.08.2023   |           |
|                              |   |          |  |             |       |                              | Period of Analysis |               |       |                |                | :          | 10.08.2023 | - 1         | 1.08.2023 |
|                              |   |          |  |             |       |                              | Date of Issue      |               |       |                |                | :          | 14.08.2023 | }           |           |
| Sampling Plan &<br>Procedure |   | ENV/SO   | P/01   | Deviation   | ı fro | om the Sampling Method and I | 1                  |               |       | Ту             | Type of Sample |            |            | Ambient Air |           |
| Sample Condition             | : | Sealed   | d Sample ID No. : ENV/17/Aug./A/XXXXVIII Report No. : ENV/17/A |             |       |                              |                    | 17/Aug./TR(   | A)/   | XXXXVIII/23-24 |                |            |            |             |           |

### A] GENERAL INFORMATION

1. Location of Sampling : East Side of the Extension – 2 Plant (Outside of Boundary Wall)

72.0

2. Duration of Sampling : 24 hrs. (11:00 a.m. – 11:00 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Relative Humidity (%)

1. Average Temperature (°C) : 28.0

3. Barometric Pressure (mm of Hg) : 753.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Clear sky

### C] RESULTS

2.

| - 1        |                                    |                   |  |         |       |
|------------|------------------------------------|-------------------|--|---------|-------|
| SL.<br>NO. | PARAMETERS                         | UNIT              | METHOD NO.                               | RESULTS | LIMIT |
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                 | 53.11   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                 | 80.46   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³             | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 14.04   | 80.0  |
|            |                                    |                   | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 34.20   | 80.0  |
|            |                                    | 1                 | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.         | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                 | 0.48    | 2.0   |
|            |                                    |                   |  |         |       |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



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Branch Office : Siliguri \* Haldis \* Durgapur \* Dhanbad \* Gangtok \* Port Blair \* Dehradun \* New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite Inc | idia Li | td.        |     |                           |   | Type of I  | ndı  | ustry   |     | :   | Graphite U | nit |              |
|------------------------------|---|--------------|---------|------------|-----|---------------------------|---|------------|------|---------|-----|-----|------------|-----|--------------|
| Address                      | : | P.O Sagar    | rbhan   | ga, Durgap | ur, | Pin - 713211              |   | Sampling   | g Da | ate     |     | :   | 03.08.2023 | - 0 | 4.08.2023    |
|                              |   |              |         |            |     |                           |   | Period of  | f Ar | nalysis |     | :   | 10.08.2023 | - 1 | 1.08.2023    |
|                              |   |              |         |            |     |                           |   | Date of Is | ssu  | e       |     | :   | 14.08.2023 |     |              |
| Sampling Plan &<br>Procedure | : | ENV/SOP/0    | 01      | Deviation  | fro | m the Sampling Method and | P | Plan :     | :    | No      | Тур | e c | of Sample  |     | Ambient Air  |
| Sample Condition             | : | Sealed Sa    | ample   | e ID No.   | :   | ENV/17/Aug./A/XXXXIX      |   | Report N   | 0.   | :       | ENV | //1 | 7/Aug./TR( | A)/ | XXXXIX/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : At the East of LWG – 4 & 5 (Near Boundary old Graphite Plant)

2. Duration of Sampling : 24 hrs. (09:00 a.m. – 09:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature  $({}^{0}C)$  : 28.0

2. Average Relative Humidity (%) : 78.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL. | PARAMETERS                         | UNIT              | METHOD NO.                               | RESULTS | LIMIT |
|-----|------------------------------------|-------------------|--|---------|-------|
| NO. |                                    |                   | P <sub>4</sub>                           |         |       |
| 1.  | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                 | 56.20   | 60.0  |
| 2.  | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                 | 93.46   | 100.0 |
| 3.  | Concentration of SO <sub>2</sub>   | μg/m³             | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 23.47   | 80.0  |
|     |                                    |                   | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.  | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 56.22   | 80.0  |
|     |                                    | 1                 | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.  | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                 | 0.52    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

Manager Control Street

### **Authorised Signatory:**



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry | : | Graphite India I | ⊥td.        |      |                          |      | Type of | Inc  | lustry  |     |      | Graphite U  | nit |             |
|-------------------------|---|------------------|-------------|------|--------------------------|------|---------|------|---------|-----|------|-------------|-----|-------------|
| Address                 | : | P.O. – Sagarbhai | nga, Durgap | our, | Pin - 713211             |      | Sampli  | ng E | ate     |     | :    | 03.08.2023  | - 0 | 4.08.2023   |
|                         |   |                  |             |      |                          | Ī    | Period  | of A | nalysis | 3   |      | 10.08.2023  | - 1 | 1.08.2023   |
|                         |   |                  |             |      |                          |      | Date of | Issi | ıe      |     |      | 14.08.2023  |     |             |
| Sampling Plan &         | : | ENV/SOP/01       | Deviation   | fro  | m the Sampling Method ar | ıd l | Plan    | :    | No      | Туј | pe o | of Sample   | :   | Ambient Air |
| Procedure               |   |                  |             |      |                          |      |         |      |         |     | М    |             |     |             |
| Sample Condition        | : | Sealed Samp      | le ID No.   | :    | ENV/17/Aug./A/XXXXX      |      | Report  | No.  | :       | EN  | V/:  | 17/Aug./TR( | A)/ | XXXXX/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Near Personnel Office, West Side, Near Boundary Wall (Old Plant)

2. Duration of Sampling : 24 hrs. (09:30 a.m. – 09:30 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0

Average Relative Humidity (%) : 78.0
 Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT  | METHOD NO.                              | RESULTS | LIMIT |
|------------|------------------------------------|-------|---|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³ | IS 5182 (Part 24) : 2019                | 44.58   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³ | IS 5182 (PART 23) : 2019                | 76.16   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, | 16.56   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2017             |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91: | 28.46   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2018             |         |       |
| 5.         | Concentration of CO                | mg/m³ | IS 5182 (Part 10) : 2019                | 0.40    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite Ind | ia Ltd.      |       |                         |      | Type of | f Ind | lustry |    | :    | Graphite U  | nit |              |
|------------------------------|---|--------------|--------------|-------|-------------------------|------|---------|-------|--------|----|------|-------------|-----|--------------|
| Address                      | : | P.O Sagarb   | hanga, Durga | pur,  | Pin - 713211            |      | Sampli  | ng D  | ate    |    |      | 03.08.2023  | - 0 | 4.08.2023    |
|                              |   |              |              |       |                         |      | Period  | of A  | nalysi | S  |      | 10.08.2023  | - 1 | 1.08.2023    |
|                              |   |              |              |       |                         |      | Date of | Issı  | ıe     |    | :    | 14.08.2023  |     |              |
| Sampling Plan &<br>Procedure | : | ENV/SOP/01   | 1 Deviatio   | n fro | m the Sampling Method a | nd l | Plan    |       | No     | Ту | pe ( | of Sample   | :   | Ambient Air  |
| Sample Condition             | : | Sealed Sai   | mple ID No.  | :     | ENV/17/Aug./A/XXXXX     | ΚI   | Report  | No.   | :      | EN | [V/  | 17/Aug./TR( | A)/ | XXXXXI/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Near RH – 24 (II), South Side of Boundary Wall

2. Duration of Sampling : 24 hrs. (10:00 a.m. – 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature ( ${}^{0}$ C) : 28.0

Average Relative Humidity (%) : 78.0
 Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT              | METHOD NO.                               | RESULTS | LIMIT |
|------------|------------------------------------|-------------------|--|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                 | 56.50   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                 | 72.61   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m <sup>3</sup> | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 29.34   | 80.0  |
|            |                                    |                   | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 56.45   | 80.0  |
|            |                                    |                   | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.         | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                 | 0.68    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite In | idia Lt | td.        |       |                |            | Type o  | f Inc | lustry |    | :    | Graphite U  | nit |               |
|------------------------------|---|-------------|---------|------------|-------|----------------|------------|---------|-------|--------|----|------|-------------|-----|---------------|
| Address                      | : | P.O Sagar   | rbhan   | ga, Durgap | ur, i | Pin – 713211   |            | Sampli  | ng E  | ate    |    | :    | 03.08.2023  | - 0 | 4.08.2023     |
|                              |   |             |         |            |       |                |            | Period  | of A  | nalysi | S  | .:   | 10.08.2023  | - 1 | 1.08.2023     |
|                              |   |             |         |            |       |                |            | Date of | Issu  | ıe     |    | .:   | 14.08.2023  |     |               |
| Sampling Plan &<br>Procedure | : | ENV/SOP/0   | 01      | Deviation  | froi  | m the Sampling | Method and | Plan    | :     | No     | Ту | pe o | of Sample   |     | Ambient Air   |
| Sample Condition             | : | Sealed Sa   | ample   | e ID No.   | :     | ENV/17/Aug     | /A/XXXXXII | Report  | No.   | :      | EN | IV/  | 17/Aug./TR( | A)/ | XXXXXII/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Near South Side of Tunnel Kiln Boundary Wall (Old Plant)

2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 78.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT              | METHOD NO.                              | RESULTS | LIMIT |
|------------|------------------------------------|-------------------|---|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                | 53.16   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                | 84.50   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³             | IS 5182 (Part 2) 2017 & ASTM D 2914-01, | 33.95   | 80.0  |
|            |                                    |                   | Sec. 11 (Vol. 11.07) : 2017             |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91: | 54.51   | 80.0  |
|            |                                    |                   | Sec. 11 (Vol. 11.07) : 2018             |         |       |
| 5.         | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                | 0.66    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



### **Authorised Signatory:**



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite | India I | ıtd.        |      |       |        |        |       |         | Type o  | f Inc | ustry  |    | :    | Graphite U | nit   |                |
|------------------------------|---|----------|---------|-------------|------|-------|--------|--------|-------|---------|---------|-------|--------|----|------|------------|-------|----------------|
| Address                      | : | P.O Sag  | garbha  | nga, Durgap | our, | Pin - | - 7132 | 211    |       |         | Sampli  | ng [  | ate    |    | :    | 03.08.2023 | 3 – ( | 04.08.2023     |
|                              |   |          |         |             |      |       |        |        |       |         | Period  | of A  | nalysi | S  | :    | 10.08.2023 | 3 – 1 | 1.08.2023      |
|                              |   |          |         |             |      |       |        |        |       |         | Date of | Issi  | ıe     |    | :    | 14.08.2023 | }     |                |
| Sampling Plan &<br>Procedure | : | ENV/SOI  | P/01    | Deviation   | fro  | m the | e San  | npling | Metho | l and I | Plan    | :     | No     | Ту | pe o | of Sample  | :     | Ambient Air    |
| Sample Condition             | : | Sealed   | Samp    | le ID No.   | :    | ENV   | V/17   | /Aug./ | A/XXX | XXIII   | Report  | No.   | :      | EN | IV/: | 17/Aug./TR | (A)/  | XXXXXIII/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Near Baking Furnace RH# 16, Section (North side of Boundary Wall)

2. Duration of Sampling : 24 hrs. (11:00 a.m. – 11:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature ( ${}^{0}$ C) : 28.0

Average Relative Humidity (%) : 78.0
 Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL. | PARAMETERS                         | UNIT              | METHOD NO.                              | RESULTS | LIMIT |
|-----|------------------------------------|-------------------|---|---------|-------|
| NO. |                                    |                   | 73                                      |         |       |
| 1.  | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                | 54.58   | 60.0  |
| 2.  | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                | 80.52   | 100.0 |
| 3.  | Concentration of SO <sub>2</sub>   | μg/m³             | IS 5182 (Part 2) 2017 & ASTM D 2914-01, | 14.67   | 80.0  |
|     |                                    |                   | Sec. 11 (Vol. 11.07) : 2017             |         |       |
| 4.  | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91: | 31.09   | 80.0  |
|     |                                    | 1                 | Sec. 11 (Vol. 11.07) : 2018             |         |       |
| 5.  | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                | 0.42    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

MINISTER CHARGAGERTY By Quality Manager

### **Authorised Signatory:**



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### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite | India I | ıtd.        |      |       |       |         |        |       | Type of | f Inc | ustry  |    | :    | Graphite U  | nit   |               |
|------------------------------|---|----------|---------|-------------|------|-------|-------|---------|--------|-------|---------|-------|--------|----|------|-------------|-------|---------------|
| Address                      | : | P.O Sa   | garbha  | nga, Durgaj | our, | Pin – | 7132  | :11     |        |       | Sampli  | ng D  | ate    |    | ::   | 04.08.2023  | 3 – 0 | 5.08.2023     |
|                              |   |          |         |             |      |       |       |         |        |       | Period  | of A  | nalysi | S  | .:   | 10.08.2023  | 3 – 1 | 1.08.2023     |
|                              |   |          |         |             |      |       |       |         |        |       | Date of | Issı  | ıe     |    |      | 14.08.2023  | }     |               |
| Sampling Plan &<br>Procedure | : | ENV/SOI  | P/01    | Deviation   | fro  | m the | Sam   | pling N | Method | and F | Plan    |       | No     | Ту | pe ( | of Sample   | :     | Ambient Air   |
| Sample Condition             | : | Sealed   | Samp    | e ID No.    | :    | ENV   | //17/ | 'Aug./  | A/XXXX | XIV   | Report  | No.   | :      | EN | IV/  | 17/Aug./TR( | (A)/  | XXXXXIV/23-24 |

### A] GENERAL INFORMATION

Location of Sampling
 Extrusion # 2 Campus, South Side
 Duration of Sampling
 24 hrs. (09:10 a.m. - 09:10 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 78.0
 Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL.<br>NO. | PARAMETERS                         | UNIT  | METHOD NO.                              | RESULTS | LIMIT |
|------------|------------------------------------|-------|---|---------|-------|
| 1.         | Concentration of PM <sub>2.5</sub> | μg/m³ | IS 5182 (Part 24) : 2019                | 51.25   | 60.0  |
| 2.         | Concentration of PM <sub>10</sub>  | μg/m³ | IS 5182 (PART 23) : 2019                | 80.46   | 100.0 |
| 3.         | Concentration of SO <sub>2</sub>   | μg/m³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, | 12.57   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2017             |         |       |
| 4.         | Concentration of NO <sub>2</sub>   | μg/m³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91: | 30.01   | 80.0  |
|            |                                    |       | Sec. 11 (Vol. 11.07) : 2018             |         |       |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

THE QUALITY STANDARDS

Authorised Signatory :

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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite India  | Ltd.                    |      |                           | Туре   | f Inc  | lustry |    | :          | Graphite U  | nit       |              |
|------------------------------|---|-----------------|-------------------------|------|---------------------------|--------|--------|--------|----|------------|-------------|-----------|--------------|
| Address                      | : | P.O. – Sagarbha | nga, Durga <sub>l</sub> | our, | Pin - 713211              | Sampl  | ng I   | ate    |    | :          | 04.08.2023  | - 0       | 5.08.2023    |
|                              |   |                 |                         |      | Period                    | of A   | nalysi | S      | :  | 10.08.2023 | - 1         | 1.08.2023 |              |
|                              |   |                 |                         |      |                           | Date o | f Iss  | ue     |    | :          | 14.08.2023  | ;         |              |
| Sampling Plan &<br>Procedure | : | ENV/SOP/01      | Deviation               | fro  | m the Sampling Method and | Plan   | :      | No     | Ту | pe (       | of Sample   | :         | Ambient Air  |
| Sample Condition             | : | Sealed Samp     | le ID No.               | :    | ENV/17/Aug./A/XXXXXV      | Repor  | No.    | :      | EN | IV/        | 17/Aug./TR( | A)/       | XXXXXV/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (Central Location) (Near New Road Weigh

Bridge)

2. Duration of Sampling : 24 hrs. (09:30 a.m. – 09:30 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 78.0

3. Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| <u> </u> | RESCEIG                                  |                   |   |         |       |
|----------|--|-------------------|---|---------|-------|
| SL.      | PARAMETERS                               | UNIT              | METHOD NO.  | RESULTS | LIMIT |
| NO.      |  |                   |   |         |       |
| 1.       | Concentration of PM <sub>2.5</sub>       | μg/m <sup>3</sup> | IS 5182 (Part 24) : 2019                          | 44.62   | 60.0  |
| 2.       | Concentration of PM <sub>10</sub>        | μg/m <sup>3</sup> | IS 5182 (PART 23): 2019                           | 81.50   | 100.0 |
| 3.       | Concentration of SO <sub>2</sub>         | μg/m <sup>3</sup> | IS 5182 (Part 2) 2017 & ASTM D 2914-01,           | 11.73   | 80.0  |
|          |  |                   | Sec. 11 (Vol. 11.07): 2017                        |         |       |
| 4.       | Concentration of NO <sub>2</sub>         | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91:           | 29.46   | 80.0  |
|          |  |                   | Sec. 11 (Vol. 11.07) : 2018                       |         |       |
| 5.       | Concentration of CO                      | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                          | 0.38    | 2.0   |
| 6.       | Concentration of Pb                      | $\mu g/m^3$       | IS 5182 (Part 22) : 2019                          | < 0.01  | 1.0   |
| 7.       | Benzo (a) Pyrene (BaP)                   | ng/m³             | IS 5182 (Part 12): 2019 & ASTM D 6209-98, Sec. 11 | < 0.36  | 1.0   |
|          |  |                   | (Vol. 11.07): 2021/ASTM D 6209-98, Sec. 11        |         |       |
|          |  |                   | (Vo. 11.07): 2021                                 |         |       |
| 8.       | Benzene (C <sub>6</sub> H <sub>6</sub> ) | μg/m³             | IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11  | < 0.74  | 5.0   |
|          |  |                   | (Vol. 11.07): 2021                                |         |       |
| 9.       | Ozone $(O_3)$                            | μg/m³             | IS 5182 (Part-9) : 2019                           | 20.0    | 100.0 |
| 10.      | Ammonia (NH3)                            | $\mu g/m^3$       | IS 5182 (Part 25) : 2018                          | <4.18   | 400.0 |
| 11.      | Nickel (Ni)                              | ng/m³             | EPA IO 3.2, 1999                                  | < 0.02  | 20.0  |
| 12.      | Arsenic (As)                             | ng/m³             | EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017       | < 0.01  | 6.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

: N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:

MINISTER CHEMICA

Authorised Signatory :



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the<br>Industry      | : | Graphite India | aphite India Ltd.                |  |  |  |  |  |  |         |      | lustry | ,  | :   | Graphite I | Jnit  |    |              |
|------------------------------|---|----------------|----------------------------------|--|--|--|--|--|--|---------|------|--------|----|-----|------------|-------|----|--------------|
| Address                      | : | P.O. – Sagarbł | arbhanga, Durgapur, Pin – 713211 |  |  |  |  |  |  |         | ng I | ate    |    | :   | 04.08.202  | 3 – ( | 05 | 5.08.2023    |
|                              |   |                |                                  |  |  |  |  |  |  | Period  | of A | nalys  | is | :   | 10.08.202  | 3 – 3 | 11 | .08.2023     |
|                              |   |                |                                  |  |  |  |  |  |  | Date of | Issi | ue     |    | :   | 14.08.202  | 3     |    |              |
| Sampling Plan &<br>Procedure | : | ENV/SOP/01     | Deviation                        | Deviation from the Sampling Method and |  |  |  |  |  | lan     |      | No     | Ty | /pe | of Sample  | :     |    | Ambient Air  |
| Sample Condition             | : | Sealed Sam     | ple ID No.                       | le ID No. : ENV/17/Aug./A/XXXXX        |  |  |  |  |  |         | No.  | :      | EI | VV/ | 17/Aug./TR | (A)   | /X | XXXXVI/23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Near Extension # 2 Campus (East Side at Boundary Wall)

2. Duration of Sampling : 24 hrs. (10:00 a.m. – 10:00 a.m.)

### B] METEOROLOGICAL INFORMATION

Average Temperature (°C) : 28.0
 Average Relative Humidity (%) : 78.0
 Barometric Pressure (mm of Hg) : 754.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

| SL. | PARAMETERS                         | UNIT              | METHOD NO.                               | RESULTS | LIMIT |
|-----|------------------------------------|-------------------|--|---------|-------|
| NO. |                                    |                   | Pi.                                      |         |       |
| 1.  | Concentration of PM <sub>2.5</sub> | μg/m³             | IS 5182 (Part 24) : 2019                 | 43.75   | 60.0  |
| 2.  | Concentration of PM <sub>10</sub>  | μg/m³             | IS 5182 (PART 23) : 2019                 | 74.24   | 100.0 |
| 3.  | Concentration of SO <sub>2</sub>   | μg/m³             | IS 5182 (Part 2) 2017 & ASTM D 2914-01,  | 11.10   | 80.0  |
|     |                                    |                   | Sec. 11 (Vol. 11.07) : 2017              |         |       |
| 4.  | Concentration of NO <sub>2</sub>   | μg/m³             | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : | 32.57   | 80.0  |
|     |                                    |                   | Sec. 11 (Vol. 11.07) : 2018              |         |       |
| 5.  | Concentration of CO                | mg/m <sup>3</sup> | IS 5182 (Part 10) : 2019                 | 0.30    | 2.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

N.A. means Not Available.

: Result relates only to the sample tested.

### Reviewed By:



### **Authorised Signatory:**



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Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi







### FORMAT NO: ENV/FM/37

| Name of the      | : | Graphite India | Ltd.       |       |                        |       | Type of | fInc | lustry |    | :    | Graphite U | nit   |                 |
|------------------|---|----------------|------------|-------|------------------------|-------|---------|------|--------|----|------|------------|-------|-----------------|
| Industry         |   |                |            |       |                        |       |         |      |        |    |      |            |       |                 |
| Address          | : | P.O Sagarbha   | nga, Durga | pur,  | Pin – 713211           |       | Sampli  | ng I | ate    |    | :    | 05.08.2023 | 3 – ( | 06.08.2023      |
|                  |   |                |            |       |                        |       |         |      | nalysi | S  | :    | 10.08.2023 | 3 – 1 | 1.08.2023       |
|                  |   |                |            |       |                        |       | Date of | Iss  | ue     |    | :    | 14.08.2023 | }     |                 |
| Sampling Plan &  | : | ENV/SOP/01     | Deviation  | n fro | om the Sampling Method | and P | lan     | :    | No     | Ту | pe o | of Sample  | :     | Ambient Air     |
| Procedure        |   |                |            |       |                        |       |         |      |        |    |      |            |       |                 |
| Sample Condition |   | Sealed Samn    | le ID No   |       | FNV/17/Aug /A/XXXX     | WII   | Report  | Nο   |        | FN | W/   | 17/Aug /TR | Δ),   | XXXXXVII /23-24 |

### A] GENERAL INFORMATION

1. Location of Sampling : Center Location (Old Graphite Plant) (West Side of Shipping Unit -2)

754.0

2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

### B] METEOROLOGICAL INFORMATION

Barometric Pressure (mm of Hg)

1. Average Temperature  $({}^{0}C)$  : 28.0

2. Average Relative Humidity (%) : 78.0

4. Smell or Odour : No Remarkable Smell

5. Weather Condition : Partly Cloudy

### C] RESULTS

3.

| <u>j</u> | RESCETS                                  |                   |  |         |       |
|----------|--|-------------------|--|---------|-------|
| SL.      | PARAMETERS                               | UNIT              | METHOD NO.   | RESULTS | LIMIT |
| NO.      |  | -                 |  |         |       |
| 1.       | Concentration of PM <sub>2.5</sub>       | μg/m <sup>3</sup> | IS 5182 (Part 24) : 2019                           | 38.40   | 60.0  |
| 2.       | Concentration of PM <sub>10</sub>        | μg/m <sup>3</sup> | IS 5182 (PART 23): 2019                            | 71.92   | 100.0 |
| 3.       | Concentration of SO <sub>2</sub>         | μg/m <sup>3</sup> | IS 5182 (Part 2) 2017 & ASTM D 2914-01,            | 14.04   | 80.0  |
|          |  |                   | Sec. 11 (Vol. 11.07) : 2017                        |         |       |
| 4.       | Concentration of NO <sub>2</sub>         | μg/m <sup>3</sup> | IS 5182 (Part 6) 2017 & ASTM D 1607-91:            | 32.57   | 80.0  |
|          |  |                   | Sec. 11 (Vol. 11.07) : 2018                        |         |       |
| 5.       | Concentration of CO                      | mg/m <sup>3</sup> | IS 5182 (Part 10): 2019                            | 0.42    | 2.0   |
| 6.       | Concentration of Pb                      | $\mu g/m^3$       | IS 5182 (Part 22) : 2019                           | < 0.01  | 1.0   |
| 7.       | Benzo (a) Pyrene (BaP)                   | ng/m³             | IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 | < 0.36  | 1.0   |
|          |  |                   | (Vol. 11.07): 2021/ASTM D 6209-98, Sec. 11         |         |       |
|          |  |                   | (Vo. 11.07): 2021                                  |         |       |
| 8.       | Benzene (C <sub>6</sub> H <sub>6</sub> ) | μg/m³             | IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11   | < 0.74  | 5.0   |
|          |  |                   | (Vol. 11.07): 2021                                 |         |       |
| 9.       | Ozone (O <sub>3</sub> )                  | μg/m³             | IS 5182 (Part-9) : 2019                            | 20.0    | 100.0 |
| 10.      | Ammonia (NH <sub>3</sub> )               | $\mu g/m^3$       | IS 5182 (Part 25) : 2018                           | <4.18   | 400.0 |
| 11.      | Nickel (Ni)                              | ng/m³             | EPA IO 3.2, 1999                                   | < 0.02  | 20.0  |
| 12.      | Arsenic (As)                             | ng/m³             | EPA IO 3.2, 1999 & APHA 23rd Ed 3114C: 2017        | < 0.01  | 6.0   |

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

: N.A. means Not Available.

: Result relates only to the sample tested.

Reviewed By:

**Authorised Signatory:** 

Man

By Quality Heavening

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# Pollution Ambient Air Average concentration for Quarter 3 YEAR 2023 around the plant surroundings

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November'2009

Sampling Period: 03.08.2023 to 09.08.2023

All figures are in micro gms / N cub. Mt

|           |                  |                  | P     | arameters | in μg / m <sup>3</sup> | 3               | Paramet<br>ers in<br>mg/m <sup>3</sup> | P         | arameters | in μg/m         | 1 <sup>3</sup> | Param              | eters in n | g / m <sup>3</sup> | Location          | Direction<br>wrt Plant<br>Land | Close to      |
|-----------|------------------|------------------|-------|-----------|------------------------|-----------------|--|-----------|-----------|-----------------|----------------|--------------------|------------|--------------------|-------------------|--------------------------------|---------------|
| Max limit |                  |                  | 60    | 100       | 80                     | 80              | 2                                      | 1         | 5         | 400             | 100            | 1                  | 6          | 20                 |                   |                                |               |
| LOCATION  | Sampling<br>Date | Sampling<br>Time | PM2.5 | PM10      | $SO_2$                 | NO <sub>2</sub> | co                                     | Pb        | Benzene   | NH <sub>3</sub> | Ozone          | Benzo(a)<br>Pyrene | As         | Ni                 |                   |                                |               |
|           |                  |                  |       |           |                        |                 | Ne                                     | w Extrus  | ion Camp  | us              |                |                    |            |                    |                   |                                |               |
|           | 04.08.2023       | 10:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Extrusion #2      |                                |               |
| A         | to               | to               | 43.80 | 74.20     | 11.20                  | 32.50           | 0.30                                   | -         | -         | -               | -              | -                  | -          | -                  | Campus            | East Side                      | Boundary wall |
|           | 05.08.2023       | 10:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | Average          |                  | 43.80 | 74.20     | 11.20                  | 32.50           | 0.30                                   | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | 08.08.2023       | 10:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Graphite Old      |                                | Outside Of    |
| В         | to               | to               | 70.50 | 141.50    | 16.20                  | 32.50           | 0.62                                   | -         | -         | -               | -              | -                  | -          | -                  | Plant             | South Side                     | Boundary wall |
|           | 09.08.2023       | 10:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  |                   |                                | ,             |
|           | Average          |                  | 70.50 | 141.50    | 16.20                  | 32.50           | 0.62                                   | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | 04.08.2023       | 09:10 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Extrusion#2       |                                |               |
| С         | to               | to               | 48.30 | 127.30    | 12.50                  | 30.0            | 0.40                                   | -         | -         | -               | -              | -                  | -          | -                  | Campus            | South Side                     | Boundary wall |
|           | 05.08.2023       | 09:10 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | 1                 |                                |               |
|           | Average          |                  | 48.30 | 127.30    | 12.50                  | 30.00           | 0.40                                   | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | 08.08.2023       | 11:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Extension - 2     |                                | Outside Of    |
| D         | to               | to               | 53.20 | 80.50     | 14.10                  | 34.20           | 0.48                                   | -         | -         | -               | -              | -                  | -          | -                  | Plant             | East Side                      | Boundary wall |
|           | 09.08.2023       | 11:00 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | Average          |                  | 53.20 | 80.50     | 14.10                  | 34.20           | 0.48                                   | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | 04.08.2023       | 09:30 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Extrusion#2       | Center                         | Near New Road |
| Е         | to<br>05.08.2023 | to<br>09:30 AM   | 44.80 | 81.50     | 11.80                  | 29.50           | 0.38                                   | -         | -         | -               | -              | -                  | -          | -                  | Campus            | Location                       | Weigh Bridge  |
|           |                  | 09:30 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           | Average          |                  | 44.80 | 81.50     | 11.80                  | 29.50           | 0.38                                   | -         | -         | -               | -              | -                  | -          | -                  |                   |                                |               |
|           |                  |                  |       |           |                        | 1               | Grap                                   | ohite Old | Plant Can | ipus            |                |                    | 1          |                    | L                 | 1                              |               |
|           | 03.08.2023       | 09:30 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | Near<br>Personnel |                                |               |
| F         | to<br>04.08.2023 | to<br>09:30 AM   | 44.80 | 76.20     | 16.50                  | 28.50           | 0.40                                   | -         | -         | -               | -              | -                  | -          | -                  | Office            | West Side                      | Boundary wall |
|           | 04.08.2023       | 09:30 AM         |       |           |                        |                 |  | -         | -         | -               | -              | -                  | -          | -                  | (Graphite         | ļ                              |               |

|   | Average    |                | 44.80  | 76.20  | 16.50 | 28.50 | 0.40 | - | - | - | - | - | - | - |                         |            |                   |
|---|------------|----------------|--------|--------|-------|-------|------|---|---|---|---|---|---|---|-------------------------|------------|-------------------|
|   | 08.08.2023 | 09:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | Graphite Old            |            | Outside Of        |
| G | to         | to             | 56.50  | 109.86 | 19.20 | 38.50 | 0.48 | - | - | - | - | - | - | - | - Plant                 | East Side  | Boundary wall     |
|   | 09.08.2023 | 09:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - |                         |            |                   |
|   | Average    |                | 56.50  | 109.86 | 19.20 | 38.50 | 0.48 | - | - | - | - | - | - | - |                         |            |                   |
|   | 03.08.2023 | 09:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | At the east of<br>LWG 4 |            |                   |
| Н | to         | to<br>09:00 AM | 256.62 | 746.64 | 36.50 | 61.20 | 0.62 | - | - | - | - | - | - | - | & 5                     | East Side  | Boundary wall     |
|   | 04.08.2023 | 09:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | (Graphite               |            |                   |
|   | Average    |                | 256.62 | 746.64 | 36.50 | 61.20 | 0.62 | - | - | - | - | - | - | - |                         |            |                   |
|   | 03.08.2023 | 10:30 AM       |        |        |       |       |      | - | - | - | - | - | - | - | Near South<br>side of   |            |                   |
| I | to         | to             | 253.10 | 600.0  | 34.10 | 54.50 | 0.66 | - | - | - | - | - | - | - | Tunnel Kiln             | South Side | Boundary wall     |
|   | 04.08.2023 | 10:30 AM       |        |        |       |       |      | - | - | - | - | - | - | - | (Graphite               |            |                   |
|   | Average    |                | 253.10 | 600.0  | 34.10 | 54.50 | 0.66 | - | - | - | - | - | - | - |                         |            |                   |
|   | 05.08.2023 | 10:30 AM       |        |        |       |       |      | - | - | - | - | - | - | - | Graphite Old            | Center     | West side of      |
| J | to         | to             | 38.50  | 71.90  | 14.20 | 32.50 | 0.42 | - | - | - | - | - | - | - | - Plant                 | Location   | Shipping Unit # 2 |
|   | 06.08.2023 | 10:30 AM       |        |        |       |       |      | - | - | - | - | - | - | - |                         |            |                   |
|   | Average    |                | 38.50  | 71.90  | 14.20 | 32.50 | 0.42 | - | - | - | - | - | - | - |                         |            |                   |
|   | 03.08.2023 | 11:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | Near Baking             |            |                   |
| K | to         | to             | 54.50  | 80.50  | 14.50 | 31.20 | 0.42 | - | - | - | - | - | - | - | Furnace RH              | North Side | Boundary wall     |
|   | 04.08.2023 | 11:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | 16 Section              |            |                   |
|   | Average    |                | 54.50  | 80.50  | 14.50 | 31.20 | 0.42 | - | - | - | - | - | - | - |                         |            |                   |
|   | 03.08.2023 | 10:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | Near RH- 24             |            |                   |
| L | to         | to             | 356.80 | 778.0  | 29.20 | 56.50 | 0.68 | - | - | - | - | - | - | - | Near KH- 24<br>(II)     | South Side | Boundary wall     |
|   | 04.08.2023 | 10:00 AM       |        |        |       |       |      | - | - | - | - | - | - | - | ()                      |            |                   |
|   | Average    |                | 356.80 | 778.0  | 29.20 | 56.50 | 0.68 | - | - | - | - | - | - | - |                         |            |                   |



Checked By: D. Chakraborty
Dy. Quality Manager
Envirocheck



Stamp



For, Envirocheck
Dr. Ajoy Paul
Quality Manager





# TEST REPORT

Name of Industry / Company / Factory / Office

Address

Type of Industry

Sampling Plan & Procedure Deviation from the Sampling Method & Plan

Type of Sample

Sample ID

Date of Study

Method No.

Sample Monitored by

ENV/139/M/N 08/08/2023 IS 15575 (Part 2), 2022

Mr. SubhasMondal

**Graphite India Limited** 

P.O. - Sagarbhanga Colony District - Burdwan, Durgapur, Pin - 713211

**Electrodes Manufacturing Unit** 

ENV/SOP/02

No

Noise Level Study

Report ID Reporting Date ENV/139/M/(TR)N/23-24

14/08/2023 20 Minutes

Height from Ground Level 4 Feet.

Time of Duration of Noise

| SI.<br>No. | Location Name                                    |      |      |      | d    | B (A) - (N | loise Dat | a)   |      |      |      | , ,                                  | Min<br>dB (A) | Max<br>dB (A) | L <sub>eq</sub><br>dB (A) | Limit in LeqdB(A)   |
|------------|--|------|------|------|------|------------|-----------|------|------|------|------|--------------------------------------|---------------|---------------|---------------------------|---|
| 1.         | North Boundary Wall (Near<br>Temple)             | 56.8 | 62.9 | 63.9 | 58.9 | 57.5       | 58.2      | 59.9 | 60.8 | 61.6 | 62.6 | 11:00 - 11:20<br>A.M<br>(Day Time)   | 56.8          | 63.9          | 60.91                     | A. Industrial Area<br>(Day Time – 75.0)<br>(Night Time – 70.0 |
| 2.         | North Boundary Wall (Near<br>Temple)             | 54.1 | 55.2 | 60.8 | 55.8 | 56.9       | 57.2      | 58.1 | 59.4 | 60.2 | 55.3 | 10:00 –<br>10:20P.M<br>(Night Time)  | 54.1          | 60.8          | 57.84                     |   |
| 3.         | North Boundary Wall (Near<br>Security Barack)    | 62.8 | 63.4 | 69.7 | 70.1 | 65.8       | 66.1      | 67.2 | 68.9 | 63.0 | 64.4 | 11:30 – 11:50<br>A.M<br>(Day Time)   | 62.8          | 70.1          | 66.93                     |   |
| 4.         | North Boundary Wall (Near<br>Security Barack)    | 58.4 | 59.6 | 67.8 | 67.1 | 59.4       | 60.2      | 61.5 | 62.3 | 63.4 | 64.8 | 10:25 – 10:45<br>P.M<br>(Night Time) | 58.4          | 67.8          | 63.62                     |   |
| 5.         | North Boundary Wall Back of<br>LWG - 3           | 60.1 | 62.3 | 68.4 | 63.4 | 64.4       | 65.2      | 66.1 | 63.7 | 62.8 | 61.4 | 12:00 -<br>12:20P.M<br>(Day Time)    | 60.1          | 68.4          | 64.41                     |   |
| 6.         | North Boundary Wall Back of<br>LWG - 3           | 58.3 | 59.6 | 60.2 | 61.5 | 62.3       | 64.8      | 65.3 | 66.7 | 62.9 | 60.4 | 10:50 –<br>11:10P.M<br>(Night Time)  | 58.3          | 66.7          | 62.87                     |   |
| 7.         | Centre of the Plant (Near P1<br>Unit – 1)        | 67.2 | 66.3 | 66.4 | 69.4 | 65.8       | 64.3      | 62.8 | 61.9 | 60.8 | 62.6 | 12:30 - 12:50<br>P.M<br>(Day Time)   | 60.8          | 69.4          | 65.51                     |   |
| 8.         | Centre of the Plant (Near P1<br>Unit – 1)        | 60.5 | 61.2 | 63.2 | 59.9 | 60.8       | 61.5      | 62.3 | 63.4 | 60.8 | 61.7 | 11:15 – 11:35<br>P.M<br>(Night Time) | 59.9          | 63.4          | 61.67                     |   |
| 9.         | East Boundary Wall (Near<br>LWG – 4)             | 64.2 | 64.5 | 67.6 | 62.9 | 61.6       | 60.8      | 63.4 | 62.8 | 61.6 | 60.3 | 11:40 – 12:00<br>P.M<br>(Day Time)   | 60.3          | 67.6          | 63.50                     |   |
| 10.        | East Boundary Wall (Near<br>LWG – 4)             | 61.2 | 61.7 | 62.3 | 60.5 | 59.9       | 58.6      | 60.0 | 61.3 | 62.4 | 60.7 | 12:05 –<br>12:25A.M<br>(Night Time)  | 58.6          | 62.4          | 61.00                     |   |
| 11.        | West Boundary Well (Near<br>Personal Office)     | 61.8 | 65.6 | 65.4 | 60.3 | 62.8       | 61.4      | 63.3 | 60.0 | 64.8 | 65.0 | 1:30 – 1:50<br>P.M<br>(Day Time)     | 60.0          | 65.6          | 63.48                     |   |
| 12.        | West Boundary Well (Near<br>Personal Office)     | 59.4 | 63.2 | 60.5 | 61.8 | 62.3       | 59.9      | 58.6 | 57.5 | 60.9 | 61.6 | 12:30 – 12:50<br>A.M<br>(Night Time) | 57.5          | 63.2          | 60.88                     |   |
| 13.        | South Boundary Wall (Near<br>Finishing Unit – 3) | 62.8 | 63.9 | 61.6 | 60.5 | 66.1       | 66.0      | 63.8 | 62.2 | 61.8 | 60.5 | 2:00 – 2:20<br>P.M<br>(Day Time)     | 60.5          | 66.1          | 63.36                     |   |
| 14.        | South Boundary Wall (Near<br>Finishing Unit – 3) | 59.4 | 60.1 | 61.6 | 58.6 | 58.3       | 59.9      | 57.6 | 62.5 | 61.8 | 62.3 | 12:55 – 1:15<br>A.M<br>(Night Time)  | 57.6          | 62.5          | 60.52                     |   |

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189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889 Laboratory

Info@envirocheck.in / envirocheck50@gmail.com . Website : www.envirocheck.in E-mail Siliguri . Haldia . Durgapur . Dhanbad . Gangtok . Port Blair . Dehradun . New Delhi Branch Office :

UAE . Qatar . Netherlands Overseas





| SI.<br>No. | Location Name  |      |      |      | d    | B (A) - (N | loise Dat | a)   |      |      |      | Time (Hours)                       | Min<br>dB (A) | Max<br>dB (A) | L <sub>eq</sub><br>dB (A) | Limit in LeqdB(A)   |
|------------|--|------|------|------|------|------------|-----------|------|------|------|------|------------------------------------|---------------|---------------|---------------------------|---|
| 15.        | South Boundary Wall Back of<br>Old Store                         | 62.6 | 68.4 | 63.5 | 68.4 | 63.3       | 64.8      | 65.9 | 61.7 | 67.5 | 62.2 | 2:30 - 2:50<br>P.M<br>(Day Time)   | 61.7          | 68.4          | 65.53                     | A. Industrial Area<br>(Day Time – 75.0)<br>(Night Time – 70.0 |
| 16.        | South Boundary Wall Back of<br>Old Store                         | 61.4 | 66.2 | 63.5 | 68.5 | 67.7       | 66.4      | 63.9 | 62.0 | 63.7 | 65.5 | 1:20 – 1:40<br>A.M<br>(Night Time) | 61.4          | 68.5          | 65.45                     |   |
| 17.        | South Boundary Wall Back of<br>Canteen Building                  | 63.3 | 64.5 | 62.9 | 61.7 | 66.8       | 65.5      | 60.9 | 61.7 | 62.3 | 64.6 | 3:00 – 3:20<br>P.M<br>(Day Time)   | 60.9          | 66.8          | 63.80                     |   |
| 18.        | South Boundary Wall Back of<br>Canteen Building                  | 59.4 | 60.1 | 64.3 | 63.6 | 64.2       | 61.9      | 62.5 | 63.0 | 61.7 | 60.5 | 1:45 – 2:05<br>A.M<br>(Night Time) | 59.4          | 64.3          | 62.41                     |   |
| 19.        | Extrusion # 2 Centre of the<br>Plant (Near New Weight<br>Bridge) | 63.8 | 62.7 | 67.4 | 61.9 | 62.5       | 63.3      | 64.2 | 65.6 | 66.7 | 62.2 | 3:30 - 3:50<br>P.M<br>(Day Time)   | 61.9          | 67.4          | 64.44                     |   |
| 20.        | Extrusion # 2 Centre of the<br>Plant (Near New Weight<br>Bridge) | 58.2 | 57.5 | 59.8 | 60.1 | 59.4       | 58.3      | 57.7 | 55.4 | 53.8 | 61.5 | 2:10 – 2:30<br>A.M<br>(Night Time) | 53.8          | 61.5          | 58.65                     |   |
| 21.        | Extrusion # 2 Area (East<br>Boundary Wall)                       | 63.8 | 64.2 | 68.4 | 64.9 | 65.6       | 66.2      | 67.8 | 68.2 | 61.9 | 62.3 | 4:00 - 4:20<br>P.M<br>(Day Time)   | 61.9          | 68.4          | 65.88                     |   |
| 22.        | Extrusion # 2 Area (East<br>Boundary Wall)                       | 59.8 | 60.1 | 62.8 | 61.4 | 60.9       | 62.6      | 58.8 | 57.5 | 56.9 | 55.2 | 2:35 – 3:00<br>A.M<br>(Night Time) | 55.2          | 62.8          | 60.19                     |   |
| 23.        | Extrusion # 2 Area (North<br>Boundary Wall)                      | 65.8 | 64.3 | 64.7 | 69.4 | 69.2       | 67.5      | 67.0 | 68.2 | 68.9 | 66.3 | 4:30 – 4:50<br>P.M<br>(Day Time)   | 64.3          | 69.4          | 67.46                     |   |
| 24.        | Extrusion #2 Area (North<br>Boundary Wall)                       | 59.9 | 62.8 | 63.9 | 65.0 | 61.8       | 62.2      | 63.4 | 64.4 | 60.8 | 61.1 | 3:05 – 3:25<br>A.M<br>(Night Time) | 59.9          | 65.0          | 62.81                     |   |
| 25.        | Extrusion # 2 Area (South<br>Boundary Wall)                      | 63.4 | 67.5 | 64.8 | 66.1 | 65.9       | 61.9      | 60.8 | 62.3 | 63.3 | 64.8 | 5:00 - 5:20<br>P.M<br>(Day Time)   | 60.8          | 67.5          | 64.53                     |   |
| 26.        | Extrusion # 2 Area (South<br>Boundary Wall)                      | 60.4 | 65.3 | 61.8 | 62.2 | 63.6       | 64.4      | 61.9 | 62.5 | 63.8 | 63.0 | 3:30 - 3:50<br>A.M<br>(Night Time) | 60.4          | 65.3          | 63.10                     |   |
| 27.        | Extrusion # 2 Area (West<br>Boundary Wall)                       | 63.4 | 64.4 | 66.9 | 65.5 | 62.8       | 61.9      | 60.6 | 63.3 | 63.9 | 62.2 | 5:30 –<br>5:50P.M<br>(Day Time)    | 60.6          | 66.9          | 63.85                     |   |
| 28.        | Extrusion # 2 Area (West<br>Boundary Wall)                       | 57.5 | 55.6 | 54.2 | 53.9 | 51.4       | 52.9      | 51.5 | 53.5 | 56.9 | 55.7 | 3:55– 4:15<br>A.M<br>(Night Time)  | 51.4          | 57.5          | 54.76                     |   |

> End of Report <

| * * Mean of L <sub>eq</sub> - Equivalent to Sound Energy | **Central Pollution Control Board, Ministry of Environment & For<br>West Bengal) | rests Government of India &Department of Environment, Government of  |
|--|--|--|
|  | **Day Time is reckoned in between<br>6:00 A.M & 10:00 P.M                        | **Night Time is reckoned in between<br>10:00 P.M & 6:00 A.M  |
| PERMISSIBLE N  | IOISE EXPOSURE FOR INDUSTRIAL WORKERS / Source : The Noise Pollution (           | Regulation and Control) Rules, 2000  |
| Hours  | Limit in dB(A)   |  |
| 8  | 90   |  |
| 4  | 93   |  |
| 2  | 96   |  |
| 1  | 99   |  |
| 1/2  | 102  |  |
| 1/4  | 105  |  |
| 1/8  | 108  | The second secon |
| 1/16   | 111  |  |
| 1/32   | 114  |  |
| (2 minutes or less)                                      | •  |  |

Reviewed By:

DURBADAL CHAKRABORTY Dy. Quality Manager AuthorizedSignatory:

Dr. AJOY PAUL Quality Manager

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Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi









# AMBIENT NOISE LEVEL MONITORING SUMMARY SHEET FOR M/s. Graphite India Ltd.,

Dist – Burdwan, Durgapur, PIN - 713 211, (West Bengal)

For the Month of AUGUST'2023

Sampling Date: 08.08.2023 to 09.08.2023

Noise Level Leq. dB(A)

|    | LOCATIONS:   | Γ     | OAY TIME d | B(A)  | NIG   | HT TIME d | B(A)  |
|----|--|-------|------------|-------|-------|-----------|-------|
|    | LOCATIONS:   | Leq   | Lmax.      | Lmin. | Leq   | Lmax.     | Lmin. |
| 1  | NORTH BOUNDARY WALL –NEAR MANDIR                         | 60.91 | 63.90      | 56.80 | 57.84 | 60.80     | 54.10 |
| 2  | NORTH BOUNDARY WALL –NEAR SECURITY BARRACK               | 66.93 | 70.10      | 62.80 | 63.62 | 67.80     | 58.40 |
| 3  | NORTH BOUNDARY WALL –BACK OF LWG # 3                     | 64.41 | 68.40      | 60.10 | 62.87 | 66.70     | 58.30 |
| 4  | CENTRE OF THE PLANT (NEAR PI UNIT # 1)                   | 65.51 | 69.40      | 60.80 | 61.67 | 63.40     | 59.90 |
| 5  | EAST BOUNDARY WALL - NEAR LWG # 4                        | 63.50 | 67.60      | 60.30 | 61.00 | 62.40     | 58.60 |
| 6  | WEST BOUNDARY WALL - NEAR PERSONAL OFFICE                | 63.48 | 65.60      | 60.00 | 60.88 | 63.20     | 57.50 |
| 7  | SOUTH BOUNDARY WALL –NEAR FINISHIG UNIT # 3              | 63.36 | 66.10      | 60.50 | 60.52 | 62.50     | 57.60 |
| 8  | SOUTH BOUNDARY WALL –BACK OF OLD STORE                   | 65.53 | 68.40      | 61.70 | 65.45 | 68.50     | 61.40 |
| 9  | SOUTH BOUNDARY WALL –BACK OF CANTEEN BUILDING            | 63.80 | 66.80      | 60.90 | 62.41 | 64.30     | 59.40 |
| 10 | EXTRUSION # 2 CENTRE OF THE PLANT –NEAR NEW WEIGH BRIDGE | 64.44 | 67.40      | 61.90 | 58.65 | 61.50     | 53.80 |
| 11 | EXTRUSION # 2 AREA (EAST BOUNDARY WALL)                  | 65.88 | 68.40      | 61.90 | 60.19 | 62.80     | 55.20 |
| 12 | EXTRUSION # 2 AREA (NORTH BOUNDARY WALL)                 | 67.46 | 69.40      | 64.30 | 62.81 | 65.00     | 59.90 |
| 13 | EXTRUSION # 2 AREA ( SOUTH BOUNDARY WALL)                | 64.53 | 67.50      | 60.80 | 63.10 | 65.30     | 60.40 |
| 14 | EXTRUSION # 2 AREA (WEST_BOUNDARY WALL )                 | 63.85 | 66.90      | 60.60 | 54.76 | 57.50     | 51.40 |

Semi !

Checked By: D. Chakraborty

Dy. Quality Manager

Envirocheck

Kokata Per Propagation Propaga

Stamp

Mark

For, Envirocheck
Dr. Ajoy Paul
Quality Manager







# TEST REPORT

| Name of the     |               |    | :    | Graphite India              | Ltd.       |              |              | Тур   | e of          | Industry           | : | Graphite Unit             |
|-----------------|---------------|----|------|-----------------------------|------------|--------------|--------------|-------|---------------|--------------------|---|---------------------------|
| Industry        |               |    |      |                             |            |              |              |       |               |                    |   |                           |
| Address         |               |    | :    | P.O. – Sagarbhanga, Paschim |            |              |              |       | Sampling Date |                    |   | 04.08.2023                |
|                 |               |    |      | Bardhaman Du                | ırgapur,   | Pin - 713211 | - 713211 Per |       |               | Period of Analysis |   | 09.08.2023-17.08.2023     |
|                 | Date of Issue |    |      | :                           | 19.08.2023 |              |              |       |               |                    |   |                           |
| Sampling Plan & |               | Z  | :    | ENV/SOP/01                  | Deviati    | on from      | :            | No    | Ту            | pe of              | : | Industrial Effluent Water |
| Procedure       |               |    |      |                             | the San    | npling       |              |       | Sample        |                    |   | (Grab)                    |
|                 |               |    |      |                             | Method     | d and Plan   |              |       |               |                    |   |                           |
| Location        | :             | C  | olle | ected Treated Wa            | ater       | Sample       |              | Seale | ed            | Sample ID          |   | : ENV/11/Aug/W/I          |
|                 |               | fr | om   | Common Waste                | Water      | condition    |              |       |               |                    |   |                           |
|                 |               | R  | есу  | cling Unit of               |            |              |              |       |               |                    |   |                           |
|                 |               | 0  | utfa | all(Near LWG 4 &            | & Old      |              |              |       |               |                    |   |                           |
|                 |               | W  | /eig | gh Bridge)                  |            |              |              |       |               |                    |   |                           |
| Report No.      | :             | E  | NV   | /11/Aug/TR(W)               | /I/23-2    | 4            |              |       |               |                    |   |                           |

| SL. NO. | PARAMETERS                                    | TEST METHOD   | UNIT | RESULTS | LIMIT     |
|---------|---|---|------|---------|-----------|
| 1.      | рН  | 4500 H+B APHA 23rdEdition, 2017                           | -    | 6.86    | 6.5 – 8.5 |
| 2.      | Total Suspended Solids                        | 2540 D APHA 23 <sup>rd</sup> Edition, 2017                | mg/l | 30.0    | 100.0     |
| 3.      | Oil & Grease                                  | 5520 B/D APHA 23 <sup>rd</sup> Edition, 2017              | mg/l | 4.1     | 10.0      |
| 4.      | Chemical Oxygen Demand                        | 5200 B/C/D APHA 23rdEdition, 2017                         | mg/l | 76.8    | 250.0     |
| 5.      | Biochemical Oxygen  Demand for 5 days at 20°C | 5210 B APHA 23 <sup>rd</sup> Edition, 2017                | mg/l | 25.0    | 30.0      |
| 6.      | Phenolic Compounds                            | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017       | mg/l | 0.48    | 1.0       |
| 7.      | Sulfate                                       | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E : 2017 | mg/l | 126.0   | N.A.      |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

- b) N.A. means Not Available.
- c) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

d) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRAHORTY Dy. Quality Manager **Authorized Signatory:** 

Dr. AJOY PAUL Quality Manager

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# TEST REPORT

| Name of the  |   |    | :                         | Graphite India             | Ltd.       |            |    | Тур    | e of       | Industry                  | :      | Graphite Unit     |
|--------------|---|----|---------------------------|----------------------------|------------|------------|----|--------|------------|---------------------------|--------|-------------------|
| Industry     |   |    |                           |                            |            |            |    |        |            |                           |        |                   |
| Address      | : P.O. – Sagarbhanga, Paschim Sampling Date         |    | g Date                    | :                          | 04.08.2023 |            |    |        |            |                           |        |                   |
|              | Bardhaman Durgapur, Pin – 713211 Period of Analysis |    | :                         | 09.08.2023-17.08.2023      |            |            |    |        |            |                           |        |                   |
|              | Date of Issue                                       |    |                           |                            | :          | 19.08.2023 |    |        |            |                           |        |                   |
| Sampling Pla | g Plan & : ENV/SOP/01 Devi                          |    | Deviati                   | on from                    | :          | No         | Ту | pe of  | :          | Industrial Effluent Water |        |                   |
| Procedure    |   |    |                           |                            | the San    | npling     |    | Sample |            |                           | (Grab) |                   |
|              |   |    |                           |                            | Method     | and Plan   |    |        |            |                           |        |                   |
| Location     | :   | C  | olle                      | cted Water befo            | re         | Sample     | :  | Seale  | Sealed Sam |                           |        | : ENV/11/Aug/W/II |
|              |   | er | nte                       | ring Pre Treated           | Water      | condition  |    |        |            | 1-1                       |        |                   |
|              |   | fr | om                        | Common Waste               | Water      |            |    |        |            |                           |        |                   |
|              |   | R  | ecy                       | cling Unit of              |            |            |    |        |            |                           |        |                   |
|              |   | 0  | utf                       | utfall(Near LWG 4 & Old    |            |            |    |        |            |                           |        |                   |
|              |   | W  | /eig                      | eigh Brid <mark>ge)</mark> |            |            |    |        |            |                           |        |                   |
| Report No.   | :   | E  | ENV/11/Aug/TR(W)/II/23-24 |                            |            |            |    | ı      |            |                           |        |                   |

| SL. NO. | PARAMETERS                | TEST METHOD  | UNIT | RESULTS | LIMIT     |
|---------|---------------------------|--|------|---------|-----------|
| 1.      | рН                        | 4500 H+B APHA 23rdEdition, 2017                          | -    | 6.84    | 6.5 – 8.5 |
| 2.      | Total Suspended Solids    | 2540 D APHA 23rdEdition, 2017                            | mg/l | 40.0    | 100.0     |
| 3.      | Oil & Grease              | 5520 B/D APHA 23rdEdition, 2017                          | mg/l | 6.2     | 10.0      |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23rdEdition, 2017                        | mg/l | 86.4    | 250.0     |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23 <sup>rd</sup> Edition, 2017               | mg/l | 27.0    | 30.0      |
|         | Demand for 5 days at 20°C |  |      | 100     |           |
| 6.      | Phenolic Compounds        | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017      | mg/l | 0.75    | 1.0       |
| 7.      | Sulfate                   | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E: 2017 | mg/l | 168.0   | N.A.      |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

- b) N.A. means Not Available.
- c) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
- d) Result relates only to the sample tested.

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Page 2 of 4





# TEST REPORT

| Name of the  |      | :   | Graphite India   | Ltd.                          |              |   | Тур                | e of             | Industry | :                     | Graphite Unit             |
|--------------|------|-----|------------------|-------------------------------|--------------|---|--------------------|------------------|----------|-----------------------|---------------------------|
| Industry     |      |     |                  |                               |              |   |                    | 400              |          |                       |                           |
| Address      |      | :   | P.O. – Sagarbh   | bhanga, Paschim Sampling Date |              | : | 04.08.2023         |                  |          |                       |                           |
|              |      |     | Bardhaman D      | urgapur,                      | Pin - 713213 | 1 | Period of Analysis |                  | :        | 09.08.2023-17.08.2023 |                           |
|              |      |     |                  |                               |              |   | Date               | Date of Issue    |          | :                     | 19.08.2023                |
| Sampling Pla | ın 8 | ı : | ENV/SOP/01       | Deviati                       | on from      | : | No                 | Ту               | pe of    | :                     | Industrial Effluent Water |
| Procedure    |      |     |                  | the San                       | npling       |   |                    | Sa               | mple     |                       | (Grab)                    |
|              |      |     |                  | Method                        | d and Plan   |   |                    |                  |          |                       |                           |
| Location     | :    | Ext | rusion 2 (ETP In | let)                          | Sample       | : | Seale              | Sealed Sample ID |          |                       | : ENV/11/Aug/W/III        |
|              |      |     |                  |                               | condition    |   |                    |                  |          |                       |                           |
| Report No.   | :    | EN' | V/11/Aug/TR(V    | 1/Aug/TR(W)/III/23-24         |              |   |                    |                  |          |                       |                           |

| SL. NO. | PARAMETERS                | TEST METHOD  | UNIT | RESULTS |
|---------|---------------------------|--|------|---------|
| 1.      | рН                        | 4500 H+B APHA 23rdEdition, 2017                          |      | 6.24    |
| 2.      | Total Suspended Solids    | 2540 D APHA 23rdEdition, 2017                            | mg/l | 146.67  |
| 3.      | Oil & Grease              | 5520 B/D APHA 23rdEdition, 2017                          | mg/l | 14.3    |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23rdEdition, 2017                        | mg/l | 2380.8  |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23rdEdition, 2017                            | mg/l | 608.0   |
|         | Demand for 5 days at 20°C |  |      |         |
| 6.      | Phenolic Compounds        | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017      | mg/l | 3.23    |
| 7.      | Sulfate                   | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E: 2017 | mg/l | 1250.0  |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

b) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

c) Result relates only to the sample tested.

**Reviewed By:** 

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# TEST REPORT

| Name of the  |               | :   |    | Graphite India          | Ltd.                        |                                      |   | Ty      | pe of            | Industry              | : | Graphite Unit             |
|--------------|---------------|-----|----|-------------------------|-----------------------------|--------------------------------------|---|---------|------------------|-----------------------|---|---------------------------|
| Industry     |               |     |    |                         |                             |                                      |   |         | 11               |                       |   |                           |
| Address      |               | :   |    | P.O. – Sagarbha         | anga, Paschim Sampling Date |                                      |   | ng Date | :                | 04.08.2023            |   |                           |
|              |               |     |    | Bardhaman Du            | ırgapur,                    | r, Pin – 713211 Period of Analysis : |   |         | :                | 09.08.2023-17.08.2023 |   |                           |
|              | Date of Issue |     | :  | 19.08.2023              |                             |                                      |   |         |                  |                       |   |                           |
| Sampling Pla | ın 8          | ે : |    | ENV/SOP/01              | Deviati                     | on from                              | : | No      | Ту               | pe of                 | : | Industrial Effluent Water |
| Procedure    |               |     |    |                         | the San                     | npling                               |   |         | Sa               | mple                  |   | (Grab)                    |
|              |               |     |    |                         | Method                      | l and Plan                           |   |         |                  |                       |   |                           |
| Location     | :             | Ext | rι | ısion 2 (ETP Out        | tlet)                       | Sample                               | : | Sea     | Sealed Sample ID |                       |   | : ENV/11/Aug/W/IV         |
|              |               |     |    |                         |                             | condition                            |   |         |                  |                       |   |                           |
| Report No.   | :             | EN  | V/ | V/11/Aug/TR(W)/IV/23-24 |                             |                                      |   |         |                  |                       |   |                           |

| SL. NO. | PARAMETERS                | TEST METHOD   | UNIT | RESULTS | LIMIT     |
|---------|---------------------------|---|------|---------|-----------|
| 1.      | рН                        | 4500 H+B APHA 23rdEdition, 2017                           | V 1- | 6.93    | 6.5 – 8.5 |
| 2.      | Total Suspended Solids    | 2540 D APHA 23rdEdition, 2017                             | mg/l | 20.0    | 100.0     |
| 3.      | Oil & Grease              | 5520 B/D APHA 23rdEdition, 2017                           | mg/l | 3.2     | 10.0      |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23rdEdition, 2017                         | mg/l | 67.2    | 250.0     |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23 <sup>rd</sup> Edition, 2017                | mg/l | 26.0    | 30.0      |
|         | Demand for 5 days at 20°C |   |      |         |           |
| 6.      | Phenolic Compounds        | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017       | mg/l | 0.28    | 1.0       |
| 7.      | Sulfate                   | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E : 2017 | mg/l | 112.0   | N.A.      |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

- b) N.A. means Not Available.
- c) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
- d) Result relates only to the sample tested.

Reviewed By:

DURBADAL CHAKRABORTY

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Quality Manager

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: UAE . Qatar . Netherlands Overseas





# TEST REPORT

| Name of the  |      | :   | Graphite India                         | Ltd.                  |              |               | Тур                | e of  | Industry         | : | Graphite Unit             |
|--------------|------|-----|--|-----------------------|--------------|---------------|--------------------|-------|------------------|---|---------------------------|
| Industry     |      |     |  |                       |              |               |                    |       |                  |   |                           |
| Address      |      | :   | P.O. – Sagarbha                        | anga, Pas             | chim         |               | Sam                | ıplin | g Date           | : | 04.09.2023                |
|              |      |     | Bardhaman D                            | urgapur,              | Pin - 713211 | L             | Period of Analysis |       |                  | : | 16.09.2023-21.09.2023     |
|              |      |     |  |                       |              | Date of Issue |                    | :     | 23.09.2023       |   |                           |
| Sampling Pla | ın 8 | ı : | ENV/SOP/01                             | Deviati               | on from      | :             | No                 | Ty    | pe of            | : | Industrial Effluent Water |
| Procedure    |      |     |  | the San               | npling       |               |                    | Sar   | mple             |   | (Grab)                    |
|              |      |     |  | Method                | l and Plan   |               |                    |       |                  |   | 4.4                       |
| Location     | :    | Rec | cycling Plant ETP Inlet   Sample : Sec |                       | Seale        | ed            | Sample ID          |       | : ENV/19/Sep/W/I |   |                           |
|              |      | (Ex | trusion-I)                             |                       | condition    |               |                    |       |                  |   |                           |
| Report No.   | :    | EN  | V/19/Sep/TR(W)                         | /19/Sep/TR(W)/I/23-24 |              |               |                    |       |                  |   |                           |

| SL. NO. | PARAMETERS                | TEST METHOD                                    | UNIT | RESULTS |
|---------|---------------------------|--|------|---------|
| 1.      | рН                        | 4500 H+B APHA 23 <sup>rd</sup> Edition, 2017   | -    | 6.74    |
| 2.      | Total Suspended Solids    | 2540 D APHA 23rdEdition, 2017                  | mg/l | 110.0   |
| 3.      | Oil & Grease              | 5520 B/D APHA 23rdEdition, 2017                | mg/l | 12.3    |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23 <sup>rd</sup> Edition, 2017 | mg/l | 813.12  |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23rdEdition, 2017                  | mg/l | 183.0   |
|         | Demand for 5 days at 20°C |  |      |         |

Remarks: a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

**Reviewed By:** 

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# TEST REPORT

| Name of the  |               | :   | Graphite India   | Ltd.                   |              |                    | Ту  | pe of            | Industry              | :   | Graphite Unit             |
|--------------|---------------|-----|------------------|------------------------|--------------|--------------------|-----|------------------|-----------------------|-----|---------------------------|
| Industry     |               |     |                  |                        |              |                    |     |                  |                       | 25. |                           |
| Address      |               | :   | P.O. – Sagarbha  | nga, Pas               | chim         |                    | Sa  | nplin            | g Date                | :   | 04.09.2023                |
|              |               |     | Bardhaman Du     | ırgapur,               | Pin – 713211 | Period of Analysis |     | :                | 16.09.2023-21.09.2023 |     |                           |
|              | Date of Issue |     | :                | 23.09.2023             |              |                    |     |                  |                       |     |                           |
| Sampling Pla | ın 8          | ı : | ENV/SOP/01       | Deviati                | on from      | : N                |     | Ту               | Type of               |     | Industrial Effluent Water |
| Procedure    |               |     |                  | the San                | npling       |                    |     | Sa               | mple                  |     | (Grab)                    |
|              |               |     |                  | Method                 | l and Plan   |                    |     |                  | T I I I I I I         |     |                           |
| Location     | :             | Rec | ycling Plant ETP | Outlet                 | Sample       | :                  | Sea | Sealed Sample ID |                       |     | : ENV/19/Sep/W/II         |
|              |               | (Ex | trusion-I)       |                        | condition    |                    |     |                  |                       |     |                           |
| Report No.   | :             | ENV | //19/Sep/TR(W)   | /19/Sep/TR(W)/II/23-24 |              |                    |     |                  |                       |     |                           |

| SL. NO. | PARAMETERS                | TEST METHOD                                  | UNIT | RESULTS | LIMIT     |
|---------|---------------------------|--|------|---------|-----------|
| 1.      | рН                        | 4500 H+B APHA 23 <sup>rd</sup> Edition, 2017 |      | 6.75    | 6.5 – 8.5 |
| 2.      | Total Suspended Solids    | 2540 D APHA 23 <sup>rd</sup> Edition, 2017   | mg/l | 20.0    | 100.0     |
| 3.      | Oil & Grease              | 5520 B/D APHA 23rdEdition, 2017              | mg/l | 3.2     | 10.0      |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23rdEdition, 2017            | mg/l | 67.76   | 250.0     |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23rdEdition, 2017                | mg/l | 25.0    | 30.0      |
| *       | Demand for 5 days at 20°C |  |      |         |           |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

b) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

c) Result relates only to the sample tested.

**Reviewed By:** 

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Dr. AJOY PAUL Quality Manager

<End of Report>

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# TEST REPORT

| Name of the  |                 | :                        | Graphite India Ltd.              |              |            |           | Γ                  | Type of Industry |           |                       | Graphite Unit             |
|--------------|-----------------|--------------------------|----------------------------------|--------------|------------|-----------|--------------------|------------------|-----------|-----------------------|---------------------------|
| Industry     |                 |                          |                                  |              |            |           |                    |                  |           | 11                    |                           |
| Address      |                 | :                        | P.O. – Sagarbhanga, Paschim      |              |            | S         | Sampling Date      |                  |           | 04.09.2023            |                           |
|              |                 |                          | Bardhaman Durgapur, Pin - 713211 |              |            | F         | Period of Analysis |                  | :         | 16.09.2023-21.09.2023 |                           |
|              |                 |                          |                                  |              |            |           | Ι                  | Date of Issue    |           | :                     | 23.09.2023                |
| Sampling Pla | Sampling Plan & |                          | ENV/SOP/01                       | Deviati      | on from    | on from : |                    | 1                | Type of   |                       | Industrial Effluent Water |
| Procedure    | Procedure       |                          |                                  | the Sampling |            |           |                    | 5                | Sample    |                       | (Grab)                    |
|              |                 |                          |                                  | Method       | d and Plan |           |                    |                  |           |                       |                           |
| Location : E |                 | ETI                      | Inlet(Extrusion-2)               |              | Sample     | :         | Sealed             |                  | Sample ID |                       | ENV/18/Sep/W/I            |
|              |                 |                          | condition                        |              |            |           |                    |                  |           |                       |                           |
| Report No.   | :               | ENV/18/Sep/TR(W)/I/23-24 |                                  |              |            |           |                    |                  |           |                       |                           |

| SL. NO. | PARAMETERS                                    | TEST METHOD  | UNIT   | RESULTS |
|---------|---|--|--------|---------|
| 1.      | рН  | 4500 H+B APHA 23rdEdition, 2017                          | 1 - 12 | 6.82    |
| 2.      | Total Suspended Solids                        | 2540 D APHA 23rdEdition, 2017                            | mg/l   | 120.0   |
| 3.      | Oil & Grease                                  | 5520 B/D APHA 23rdEdition, 2017                          | mg/l   | 14.2    |
| 4.      | Chemical Oxygen Demand                        | 5200 B/C/D APHA 23rdEdition, 2017                        | mg/l   | 871.2   |
| 5.      | Biochemical Oxygen  Demand for 5 days at 20°C | 5210 B APHA 23rdEdition, 2017                            | mg/l   | 212.0   |
|         | ,   | ADVA contribution 5500 has been contributed to           | 0      | 4.00    |
| 6.      | Phenolic Compounds                            | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017      | mg/l   | 1.23    |
| 7.      | Sulfate                                       | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E: 2017 | mg/l   | 410.0   |

Remarks: a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

**Reviewed By:** 

Your &

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# TEST REPORT

| Name of the     |           | :                         | :   | Graphite India          |                            |              |   | Type of Industry |                    | : | Graphite Unit |                           |                       |  |
|-----------------|-----------|---------------------------|-----|-------------------------|----------------------------|--------------|---|------------------|--------------------|---|---------------|---------------------------|-----------------------|--|
| Industry        |           |                           |     |                         |                            |              |   |                  |                    |   |               |                           |                       |  |
| Address         |           |                           |     | P.O. – Sagarbhanga, Pas |                            | schim        |   |                  | Sampling Date      |   | :             | 04.09.2023                |                       |  |
|                 |           |                           |     | Bardhaman Du            | Durgapur, Pin - 713211     |              |   |                  | Period of Analysis |   |               | :                         | 16.09.2023-21.09.2023 |  |
|                 |           |                           |     |                         |                            |              |   | Ī                | Date of Issue      |   | :             | 23.09.2023                |                       |  |
| Sampling Plan & |           | 2                         | :   | ENV/SOP/01              | NV/SOP/01 Deviation from : |              | N | О                | Type of            |   | :             | Industrial Effluent Water |                       |  |
| Procedure       | Procedure |                           |     |                         | the San                    | the Sampling |   |                  | Sample             |   |               | (Grab)                    |                       |  |
|                 |           |                           |     |                         | Method                     | l and Plan   |   |                  |                    |   |               |                           |                       |  |
| Location : E    |           | ET                        | P ( | Outlet(Extrusion-2)     |                            | Sample       | : | Sealed           |                    | d | Sample ID     |                           | ENV/18/Sep/W/II       |  |
|                 |           |                           |     |                         | condition                  |              |   |                  |                    |   |               |                           |                       |  |
| Report No.      | :         | ENV/18/Sep/TR(W)/II/23-24 |     |                         |                            | 4            |   |                  |                    |   |               |                           |                       |  |

| SL. NO. | PARAMETERS                | TEST METHOD   | UNIT | RESULTS | LIMIT     |
|---------|---------------------------|---|------|---------|-----------|
| 1.      | рН                        | 4500 H+B APHA 23rdEdition, 2017                           | 2    | 6.75    | 6.5 – 8.5 |
| 2.      | Total Suspended Solids    | 2540 D APHA 23 <sup>rd</sup> Edition, 2017                | mg/l | 30.0    | 100.0     |
| 3.      | Oil & Grease              | 5520 B/D APHA 23 <sup>rd</sup> Edition, 2017              | mg/l | 4.2     | 10.0      |
| 4.      | Chemical Oxygen Demand    | 5200 B/C/D APHA 23 <sup>rd</sup> Edition, 2017            | mg/l | 77.44   | 250.0     |
| 5.      | Biochemical Oxygen        | 5210 B APHA 23 <sup>rd</sup> Edition, 2017                | mg/l | 26.0    | 30.0      |
|         | Demand for 5 days at 20°C |   |      |         |           |
| 6.      | Phenolic Compounds        | APHA 23 <sup>rd</sup> Edition, 5530 phenols D: 2017       | mg/l | 0.10    | 1.0       |
| 7.      | Sulfate                   | APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E : 2017 | mg/l | 89.0    | N.A.      |

Remarks: a) Limit per The Gazette of India: Extraordinary [Part II - Sec. 3 (i)].

- b) N.A. means Not Available.
- c) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
- d) Result relates only to the sample tested.

**Reviewed By:** 

**Authorized Signatory:** 

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### STATEMENT OF EFFLUENT DETAILS FOR THE YEAR - August & September' 2023

M/s. Graphite India Ltd., Dist – Burdwan, Durgapur, PIN - 713 211, (West Bengal)

| SL. NO. | Location   | Sampling Date | Sampling Time                                 | Parameters   | Result  |
|---------|--|---------------|---|--------------|---------|
|         |  |               |   | pH (at 26°C) | 6.86    |
|         | Collected Treated Water from                             |               |   | TSS          | 30.0    |
| 1       | Common Waste Water<br>Recycling Unit of Outfall LWG      | 04.08.2023    | 10:10 AM                                      | COD          | 76.80   |
|         | # 4 & Old Weigh Bridge                                   |               |   | BOD          | 25.0    |
|         |  |               |   | Oil & Grease | 4.10    |
|         |  |               |   | pH (at 27°C) | 6.84    |
|         | Collected Pretreated Water                               |               |   | TSS          | 40.0    |
| 2       | from Common Waste Water<br>Recycling Unit of Outfall LWG | 04.08.2023    | 10:25 AM                                      | COD          | 86.40   |
|         | # & Old Weigh Bridge                                     |               |   | BOD          | 27.0    |
|         |  |               |   | Oil & Grease | 6.20    |
|         |  |               |   | pH (at 26°C) | 6.74    |
|         |  |               |   | TSS          | 110.0   |
| 3       | Extrusion #1 Recycling Plant<br>ETP Inlet                | 04.09.2023    | 12:25 PM                                      | COD          | 813.12  |
|         | E11 IIIIet   |               |   | BOD          | 183.0   |
|         |  |               |   | Oil & Grease | 12.30   |
|         |  |               |   | pH (at 27°C) | 6.75    |
|         | Extrusion #1 Recycling Plant<br>ETP Outlet               | 04.09.2023    |   | TSS          | 20.0    |
| 4       |  |               | 12:45 PM                                      | COD          | 67.76   |
|         |  |               |   | BOD          | 25.0    |
|         |  |               |   | Oil & Grease | 3.20    |
|         |  |               |   | pH (at 26°C) | 6.93    |
|         | Extrusion #2 ETP Outlet                                  | 04.08.2023    |   | TSS          | 20.0    |
|         |  |               | 11:00 AM                                      | COD          | 67.20   |
|         |  |               |   | BOD          | 26.0    |
| _       |  |               |   | Oil & Grease | 3.20    |
| 5       |  |               |   | pH (at 27°C) | 6.75    |
|         |  |               |   | TSS          | 30.0    |
|         | Extrusion #2 ETP Outlet                                  | 04.09.2023    | 11:50 AM                                      | COD          | 77.44   |
|         |  |               |   | BOD          | 26.0    |
|         |  |               | <u>                                      </u> | Oil & Grease | 4.20    |
|         |  |               |   | pH (at 27°C) | 6.24    |
|         |  |               |   | TSS          | 146.67  |
|         | Extrusion #2 ETP Intlet                                  | 04.08.2023    | 10:45 AM                                      | COD          | 2380.80 |
|         |  |               |   | BOD          | 608.0   |
| 6       |  |               |   | Oil & Grease | 14.30   |
| O       |  |               |   | pH (at 27°C) | 6.82    |
|         |  |               |   | TSS          | 120.0   |
|         | Extrusion #2 ETP Intlet                                  | 04.09.2023    | 11:35 AM                                      | COD          | 871.20  |
|         |  |               |   | BOD          | 212.0   |
|         |  |               |   | Oil & Grease | 14.20   |

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Checked By: D. Chakraborty
Dy. Quality Manager
Envirocheck



Mark

Approved By: Dr. Ajoy Paul Quality Manager Envirocheck

# WORK ZONE AIR, NOISE LEVEL, UNINATION & VENTILATION MONITORING REPORT

M/s. GRAPHITE INDIA LTD.

Durgapur - 713 211, Dist. - Paschim Bardhaman, West Bengal



AUGUST - 2023

PREPARED BY:

# INDICATIVE CONSULTANT INDIA

H.P.L Link Road, Basudevpur, P.O.-Khanjanchak, Haldia, Dist. - Purba Medinipur, PIN - 721 602.

☎ (03224) 275765.

Website: www.indicativeconsultantindia.com



Name of the Factory

M/s. GRAPHITE INDIA LTD.

Durgapur -713211, Dist - Paschim Bardhaman, West Bengal

Date of Execution of Job

04.08.2023 to 05.08.2023, 07.08.2023 to 12.08.2023 & 14.08.2023

1.0 Environment pollution is mostly the result of various human activities like industrial operation. Identification and quantification of air contaminants in the work zone area in accordance with the requirements of Factory Rules of the State under existing Factory Act is the first step towards control of the Work Zone Environment Pollution.

M/s. INDICATIVE CONSULTANT INDIA have been asked to carry out the survey of the WORK ZONE ENVIRONMENT for assessment of air borne Pollution in the form of inorganic dust and gases as well as NOISE, VENTILATION AND ILLUMINATION as per the provision of Sections 36, 7A, 13 & 17 of the Factories Act, 1948 Accordingly, the work zone monitoring, Noise, Ventilation and Illumination have been conducted with the use of Static and Portable monitoring instruments.

The general illumination over those interior parts where persons are regularly employed, shall be provide and maintained sufficient and suitable lighting natural and artificial both.

The entire field work was completed within the period of 04.08.2023 to 05.08.2023, 07.08.2023 to 12.08.2023 & 14.08.2023. Result of Work Zone air monitoring have been reported in Form No.30 as per 13B(2) of the Factories Rules of the State, in Table No. 1 to 28 & Table No. 1 to 6 Noise Level Monitoring in Table No. 1 to 26, Ventilation Condition Testing in Table No. – 1 to 8 and of Illumination Level Testing in Table No. – 1.

P 1/3

## INDICATIVE CONSULTANT INDIA

#### 2.0 DISCUSSION:

Result as indicated in Form No.30, which is annexed herewith, reveals the following facts.

#### WORKZONE AIR RESULT

i) Results of inorganic dust and gases are based on the exposure of 8 hrs. and have been reported in terms of TWA (Time Weighted Average) and Air borne contaminants like inorganic dust and gases, organic fumes in the manufacturing area have been found to be within the Permissible Exposure Limit (PEL) (TABLE 1 to 28 & TABLE 1 to 6)

#### NOISE LEVEL RESULT

ii) Sound levels are well within limit at all measured locations. (TABLE 1 to 26)

#### ILLUMINATION LEVEL MEASUREMENT RESULT

iii) 100 % of the Illumination levels are within the norms. (TABLE 1)

#### iv) VENTILATION CONDITION MEASUREMENT RESULT

- a) Volume of air change is ADEQUATE at all measured locations. (TABLE 1 to 8)
- b) Velocities of air inside the work places are ADEQUATE at all measured locations. (TABLE 1 to 8)
- c) Wet Bulb temperatures inside the work place are within limit at all measured locations. (TABLE 1 to 8)



### 3.0 ACKNOWLEDGEMENT:

- i) Mr. Ranadeep Chakraborty Vice President (Works)
- ii) Mr. Sugata Bhowmick VP (HR & IR)
- iii) Mr. C. P. Dhanuka (Sr. Manager Technical)
- iv) Mr. Sadananda Mukherjee Asst. Manager (P&A)
- v) Mr. Sudev Mohanta- Safety Officer
- vi) Security Officer & Staff
- vii) All Officers & Staff of M/s. Graphite India Ltd., Dist Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

We acknowledge our sincere thanks and gratitude to the above persons for their co-operation and help to our sampling team during the survey work.

For, INDICATIVE CONSULTANT INDIA

Competent Person made Factor's Apr 1948: Section 36

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## INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 1

Ph 03224-275765 Mob - 94340 17384 e-mail Jayantasarkar67/agmail.com/ indicative consultantindia agmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : EXTRUSION #1 PRESS FLOOR

2. Raw materials, by-products and finished products: See Amexure-1

3. Particular of Sampling

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of          | Sampling<br>Instrument |               | me Contan                  | niontion                  | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at a<br>being m | he location            | Remark       | Signature of penion | Name                  |
|-----------|---------------------------------------|-------------------------------------|----------------------------|------------------------|---------------|----------------------------|---------------------------|--|------------|--------------------------------------|------------------------|--------------|---------------------|-----------------------|
| _         | resonationing.                        |                                     | Monitoring                 | Used                   | No. of sample | Range<br>mg/M <sup>s</sup> | Avg.<br>mg/M <sup>2</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous<br>Exposure               | Short serm<br>Exposure | N.CIIIION.   | taking<br>Samples   | (in block<br>letters) |
|           |                                       | Suspended<br>Particulate<br>Matter  | BURN DE CONT               |                        | 3             | 1.045<br>1.011<br>0.958    | 1.005                     | 10.0   |            | 3                                    | Loquine                | Below<br>PEL | 0                   | SUTRADH               |
| 1.        | EXTRUSION<br>#1 PRESS                 | Respirable<br>Particulate<br>Matter | 04.08.2023                 | See                    | 3             | 0.425<br>0.439<br>0.411    | 0.425                     | 5.0  | See        | 3                                    |                        | Below<br>PEL | defin.              | AR                    |
|           | FLOOR                                 | Sulphur<br>Dioxide                  | 08:30 AM<br>to<br>04:30 PM | Annexure-I             | 3             | 0.018<br>0.023<br>0.017    | 0.019                     | 5.0  | Annexure-I | 3                                    |                        | Below<br>PEL |                     |                       |
|           |                                       | Nitrogen<br>Dioxide                 |                            |                        | 3             | 0.039<br>0.043<br>0.040    | 0.041                     | 6.0  |            | 3                                    |                        | Below<br>PEL | 3                   | S.<br>CHATTAR<br>AJ   |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P 1/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 2

Ph.: 03224-275765 Mob. - 94340 17584 e-mail jayantasarkar67(agmail.com/ indicativeconsultantindia/a/gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: EXTRUSION #1 WEIGH FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling

| SL<br>No | Location /<br>Operation  | Identified<br>Contaminant           | Date & Time<br>of<br>Monitoring | Sampling<br>Instrument |                  | me Contain                 | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number o<br>exposed at t<br>being me | he location            | Remark       | Signature of person | Name                  |
|----------|--------------------------|-------------------------------------|---------------------------------|------------------------|------------------|----------------------------|---------------------------|--|------------|--------------------------------------|------------------------|--------------|---------------------|-----------------------|
|          | Monitoring               |                                     | Monitoring                      | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous<br>Exposure               | Short term<br>Exposure | PAGESTREE N. | taking<br>Samples   | (in block<br>letters) |
|          |                          | Suspended<br>Particulate<br>Matter  | 04.08.2023                      |                        | 3                | 1.102<br>1.059<br>1.015    | 1.059                     | 10.0   |            | 3                                    | -                      | Below<br>PEL | Talpen la           | suh                   |
| 1.       | EXTRUSION<br>#I<br>WEIGH | Respirable<br>Particulate<br>Matter | S Systematical States           | See                    | 3                | 0.325<br>0.311<br>0.303    | 0.313                     | 5.0  | See        | 3                                    | *                      | Below<br>PEL | 1-4                 | SUTRADH               |
|          | FLOOR                    | Sulphur<br>Dioxide                  | 08:50 AM<br>to                  | Annexure-I             | 3                | 0.018<br>0.023<br>0.019    | 0.020                     | 5.0  | Annexure-I | 3                                    |                        | Below<br>PEL | 0                   |                       |
|          |                          | Nitrogen<br>Dioxide                 | 04:50 PM                        |                        | 3                | 0.038<br>0.042<br>0.035    | 0.038                     | 6.0  |            | 3                                    | *                      | Below<br>PEL | Si                  | CHATTAI<br>AJ         |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Sigo

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 3

Ph: 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : EXTRUSION #1 MIXER FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of<br>Monitoring | Sampling<br>Instrument | -                | me Contan                  | nination                  | TWA<br>Concentration<br>as given in              | Reference         | exposed at |            |                     | Signature                      | Name                 |
|----------|---------------------------------------|-------------------------------------|---------------------------------|------------------------|------------------|----------------------------|---------------------------|--|-------------------|------------|------------|---------------------|--------------------------------|----------------------|
| -        |                                       | Suspended                           | resemble this                   | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method            | Continuous | Short term | Remark              | of person<br>taking<br>Samples | (in bloc<br>letters) |
|          |                                       | Particulate<br>Matter               | 04.08.2023                      |                        | 3                | 1.085<br>1.012<br>0.985    | 1.027                     | 10.0   |                   | Exposure 3 | Exposure   | Below               | Supara Xa                      | School               |
| l.       | EXTRUSION<br>#1 MIXER<br>FLOOR        | Respirable<br>Particulate<br>Matter | 04.00.2023                      | See                    | 3                | 0.245<br>0.314<br>0.276    | 0.278                     | 5.0  |                   | 3          |            | PEL<br>Below<br>PEL | Japan Na                       | T.<br>SUTRAI<br>HAR  |
|          | LOOK                                  | Sulphur<br>Dioxide                  | 09:15 AM<br>to                  | Annexure-I             | 3                | 0.018<br>0.021<br>0.019    | 0.019                     | 5.0  | See<br>Annexure-I | 3          |            | Below<br>PEL        |                                |                      |
|          |                                       | Nitrogen<br>Dioxide                 | 05:15 PM                        |                        | 3                | 0.037<br>0.040<br>0.035    | 0.037                     | 6.0  |                   | 3          |            | Below<br>PEL        | 8                              | S.<br>CHATT.<br>RAJ  |

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For, INDICATIVE CONSULTANT INDIA

Parbati Golui Authorized Signature ONS

## INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 4

Ph: 03224-275763 Mob - 94340 17584 e-mail: Jayanlasarkar67/agmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : EXTRUSION #1 COOLER FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling :

| SL<br>No | Location /<br>Operation<br>Monitoring  | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument |                  | me Contan                  | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at a<br>being me | the location |              | Signature of person | Name                  |
|----------|--|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|--|------------|---------------------------------------|--------------|--------------|---------------------|-----------------------|
| -        | THE OWNER OF THE PERSON OF THE |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(my/M <sup>3</sup> ) | Method     | Continuous                            | Short term   | Remark       | taking<br>Samples   | (in block<br>letters) |
|          |  | Suspended<br>Particulate<br>Matter  | 05.08.2023        |                        | 3                | 1.105<br>1.122<br>1.069    | 1.099                     | 10.0   |            | Exposure 3                            | Exposure     | Below<br>PEL |                     | 51,27                 |
| i.       | EXTRUSION #1   | Respirable<br>Particulate<br>Matter | 03.00.2023        | See                    | 3                | 0.485<br>0.474<br>0.463    | 0.474                     | 5.0  | See        | 3                                     |              | Below<br>PEL | (aproxim            | SUTRAD                |
|          | COOLER<br>FLOOR  | Sulphur<br>Dioxide                  | 08:00 AM<br>to    | Annexure-I             | 3                | 0.018<br>0.025<br>0.029    | 0.024                     | 5.0  | Annexure-I | 3                                     |              | Below<br>PEL |                     |                       |
|          |  | Nitrogen<br>Dioxide                 | 04;00 PM          |                        | 3                | 0.038<br>0.042<br>0.039    | 0.040                     | 6.0  |            | 3                                     | -            | Relaw<br>PEL | 8                   | CHATTA<br>AJ          |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 5

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indicativeconsultantindia/agmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: Extrusion #2 Press FLOOR

2. Raw materials, by-products and finished products: See Amexure-1

Particular of Sampling :

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of                       | Sampling<br>Instrument | Airbo         | me Contam                  | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number o<br>exposed at t | the location |              | Signature<br>of person | Name          |
|-----------|---------------------------------------|-------------------------------------|---|------------------------|---------------|----------------------------|---------------------------|--|------------|--------------------------|--------------|--------------|------------------------|---------------|
|           |                                       |                                     | Monitoring                              | Used                   | No. of sample | Range<br>mg/M <sup>3</sup> | Avg,<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous<br>Exposure   | Short term   | Remark       | taking<br>Samples      | (in block     |
|           |                                       | Suspended<br>Particulate<br>Matter  | 05.08.2023                              |                        | 3             | 0.939<br>0.957<br>0.926    | 0.941                     | 10.0   |            | 3                        | Exposure     | Below<br>PEL |                        | Gan-          |
| 1.        | EXTRUSION<br>#2 PRESS<br>FLOOR        | Respirable<br>Particulate<br>Matter | *************************************** | See                    | 3             | 0.327<br>0.365<br>0.348    | 0.347                     | 5.0  | See        | 3                        | 7            | Below<br>PEL | Tabon "                | SUTRADI<br>AR |
|           | LOOK                                  | Sulphur<br>Dioxide                  | 08:30 AM<br>to                          | Annexure-1             | 3             | 0.015<br>0.023<br>0.018    | 0.019                     | 5.0  | Annexure-1 | 3                        |              | Below<br>PEL |                        |               |
|           |                                       | Nitrogen<br>Dioxide                 | 04:30 PM                                |                        | 3             | 0.040<br>0.043<br>0.038    | 0.040                     | 6.0  |            | 3                        | -            | Below<br>PEL | So,                    | S.<br>CHATTAI |

\* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

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HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 GovLRegn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 6

Ph. 03224-275765 Mob - 94340 17584 e-mail: jayantasarkar67/agmail.com/ Indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: EXTRUSION #2 14MT. FLOOR

2. Raw materials, by-products and finished products: See Amexure-1

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date &<br>Time<br>of | Sampling<br>Instrument | -             | ne Contami                 | nation                    | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at the<br>being me | the location |              | Signature of person | Name                 |
|----------|---------------------------------------|-------------------------------------|----------------------|------------------------|---------------|----------------------------|---------------------------|--|------------|---|--------------|--------------|---------------------|----------------------|
|          |                                       |                                     | Monitoring           | Used                   | No. of sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous                              | Short term   | Remark       | taking<br>Samples   | (in bloc<br>letters) |
|          |                                       | Suspended<br>Particulate<br>Matter  | 05.08.2023           |                        | 3             | 1.387<br>1.355<br>1.336    | 1.359                     | 10.0   |            | Exposure 3                              | Exposure -   | Below<br>PEL | Į.                  | Shy                  |
| 1.       | EXTRUSION<br>#2 14MT.<br>FLOOR        | Respirable<br>Particulate<br>Matter | 03.00.2023           | See                    | 3             | 0.650<br>0.690<br>0.612    | 0.651                     | 5.0  | See        | 3                                       |              | Below<br>PEL | Separate Con        | SUTRADI              |
|          |                                       | Sulphur<br>Dioxide                  | 09:00 AM<br>to       | Annexure-1             | 3             | 0.018<br>0.026<br>0.021    | 0.022                     | 5.0  | Annexure-1 | 3                                       |              | Below<br>PEL |                     |                      |
|          |                                       | Nitrogen<br>Dioxide                 | 05:00 PM             |                        | 3             | 0.038<br>0.042<br>0.036    | 0.039                     | 6,0  |            | 3                                       | (4)          | Below<br>PEL | 00                  | CHATTAI<br>AJ        |

· PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

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HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 7

Ph 01224-171165 Mill - \$4545,77584 e-mail japantourker(Taymut com indicative annalization and diagraph con-

Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : FINISHING UNIT # 4

2. Raw materials, by-products and finished products: See Annexure-1 3. Particular of Sampling :

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo            | me Contae                  | nination      | TWA<br>Concentration<br>as given in              | Reference  | Number of exposed at a | he location |              | Signature of person | Name                 |
|-----------|---------------------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------|--|------------|------------------------|-------------|--------------|---------------------|----------------------|
| _         | Second Market                         |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M3 | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous             | Short torm  | Remark:      | toking<br>Samples   | (in bloc<br>latters) |
|           |                                       | Suspended<br>Particulate<br>Matter  | 07.08.2023        |                        | 3                | 1.185<br>1.146<br>1.122    | 1.151         | 10.0   |            | Especiare 3            | Exposure    | Below<br>PEL |                     | (Ju                  |
| 1.        | FINDSHING                             | Respirable<br>Particulate<br>Matter | 97,00,2023        | See                    | 3                | 0.587<br>0.566<br>0.538    | 0.564         | 5,0  | See        | 3                      |             | Relow<br>PEL | No. in .            | SUTRAL               |
|           | UNIT#4                                | Sulphur<br>Dioxide                  | 08:00 AM<br>to    | Annexure-1             | 3                | 0.018<br>0.024<br>0.021    | 0.021         | 5.0  | Annexure-1 | 3                      |             | Below<br>PEL | 7                   |                      |
|           |                                       | Nitrogen<br>Dioxide                 | 04:00 PM          |                        | 3                | 0.039<br>0.043<br>0.034    | 0.039         | 6.0  |            | 3                      | -           | Belaw<br>PEL | St.                 | CHATT                |

\* P.E. Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Authorization

P 7/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 8

Ph 03224-275765 Mob - 94140 17384 e-mail joyantasarkort//(agmail.com/ indicative consultant of straymol com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : BAKING RH 16 SHOP FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling :

| SIL.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Aid             | xorne Contan               | sinution                  | TWA<br>Concentration<br>as given in | Reference  | exposed at t |            |              | Signmen  | Name                  |
|------------|---------------------------------------|-------------------------------------|-------------------|------------------------|-----------------|----------------------------|---------------------------|-------------------------------------|------------|--------------|------------|--------------|--|-----------------------|
| _          |                                       |                                     | Monitoring        | Used                   | No of<br>sample | Range<br>mg/M <sup>2</sup> | Avg.<br>mg/M <sup>1</sup> | 2 <sup>nd</sup> Schodule<br>(mg/M*) | Method     | Continuous   | Short term | Remark       | of person<br>taking<br>Samples   | (in hinch<br>letters) |
|            |                                       | Suspended<br>Particulate<br>Matter  | 07.08.2023        |                        | 3               | 2.215<br>2.292<br>2.247    | 2.251                     | 10.0                                |            | hapomes 3    | Exposure   | Below<br>PEL | The state of the s | CP.                   |
| 1.         | BAKING<br>BAKING                      | Respirable<br>Particulate<br>Matter | UTANIEUZ)         | See                    | 3               | 0.862<br>0.878<br>0.841    | 0.860                     | 5.0                                 | See        | 1            | 4          | Below<br>PEL | Kelen !  | N/TRAD<br>HAB         |
|            | RH 16<br>SHOP<br>FLOOR                | Sulphur<br>Dioxide                  | 08:20 AM<br>to    | Annexure-1             | 3               | 0.018<br>0.022<br>0.017    | 0.019                     | 5.0                                 | Annexure-I | 3            | 9          | Below<br>PEL | 0  |                       |
|            |                                       | Nitrogen<br>Dioxide                 | 04:20 PM          |                        | 3               | 0.038<br>0.044<br>0.039    | 0.040                     | 6.0                                 |            | 3            | 7          | Below<br>PEL | a  | RAI                   |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P 8/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 9

Ph 93224-273765 Mob - 94340 17384 e-mail: joyantasarkar67/agmail.com indicative consistential and amount com-

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : BAKING RH 24 (I) SHOP FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling :

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo         | me Contam                  | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number o<br>exposed at t | he location |              | Signature of person | Name                 |
|----------|---------------------------------------|-------------------------------------|-------------------|------------------------|---------------|----------------------------|---------------------------|--|------------|--------------------------|-------------|--------------|---------------------|----------------------|
| -        | - Comments                            |                                     | Monitoring        | Used                   | No. of sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>2</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous               | Short term  | Remark       | taking<br>Samples   | (in bloc<br>letters) |
|          |                                       | Suspended<br>Particulate<br>Matter  | 07.08.2023        |                        | 3             | 2.124<br>2.216<br>2.198    | 2.179                     | 10.0   |            | Exposure 3               | Exposure    | Below<br>PEL |                     | Calle                |
| 1.       | BAKING<br>RH 24 (I)                   | Respirable<br>Particulate<br>Matter | 070002023         | See                    | 3             | 1.087<br>1.114<br>1.068    | 1.090                     | 5.0  | See        | 3                        | -           | Below<br>PEL | SHA.                | SUTRAD               |
|          | SHOP<br>FLOOR                         | Sulphur<br>Dioxide                  | 08:45 AM<br>to    | Annexure-1             | 3             | 0.018<br>0.021<br>0.016    | 0.018                     | 5.0  | Annexure-1 | 3                        | 2           | Below<br>PEL | 0                   |                      |
|          |                                       | Nitrogen<br>Dioxide                 | 04:45 PM          |                        | 3             | 0.036<br>0.043<br>0.035    | 0.038                     | 6.0  |            | 3                        |             | Below<br>PEL | 8                   | S<br>CHATTA<br>AJ    |

PEL – Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

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P 9/28

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HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 10

Ph 03724-275765 Mob - 94340 17584 e-mail: jayantasarkar67@gmail.com

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Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : BAKING TUNNEL KILN SHOP

2. Raw materials, by-products and finished products: See Annexure-1 3. Particular of Sampling:

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant | Date & Time<br>of | Sampling<br>Instrument | Air           | borne Contar               | nination      | TWA<br>Concentration                    | Reference  | Number of<br>exposed at 1 | the location |              | Signature           | Name     |
|-----------|---------------------------------------|---------------------------|-------------------|------------------------|---------------|----------------------------|---------------|---|------------|---------------------------|--------------|--------------|---------------------|----------|
|           |                                       |                           | Monitoring        | Used                   | No. of sample | Range<br>mg/M <sup>2</sup> | Avg.<br>mg/M³ | as given in<br>2 <sup>nd</sup> Schedule | Method     | Continuous                | Short term   | Reserv       | of person<br>taking | (in hioc |
|           |                                       | Suspended                 |                   |                        |               | 2.514                      | ang/m         | (mg/M²)                                 |            | Exposure                  | Exposure     |              | Samples             | fellers  |
| Н         |                                       | Particulate<br>Matter     | 08.08.2023        |                        | 3             | 2.622                      | 2.531         | 10.0                                    |            | 3                         |              | Below<br>PEL |                     | - Note   |
|           |                                       | Respirable<br>Particulate | 7777777777        |                        |               | 1.547                      |               |   |            |                           |              | PEL          | Salpan M            | T        |
| L         | BAKING<br>TUNNEL                      | Matter                    |                   | See                    | 3             | 1.633                      | 1.559         | 5.0                                     | See        | 3                         | -            | Below<br>PEL |                     | HAR      |
|           | KILN                                  | Sulphur                   | 08:10 AM          | Annexure-I             |               | 0.019                      |               |   | Annexure-I |                           |              |              |                     |          |
| - 1       | SHOP                                  | Dioxide                   | to                |                        | 3             | 0.024                      | 0.020         | 5.0                                     |            | 3                         |              | Below<br>PEL |                     |          |
| -         |                                       | Nitrogen                  | 04:10 PM          |                        |               | 0.040                      |               |   |            |                           |              |              | 0                   | 5.       |
|           |                                       | Dioxide                   |                   |                        | 3             | 0.044                      | 0.041         | 6.0                                     |            | 3                         | -            | Below<br>PEL | 3                   | CHATE    |

For INDICATIVE CONSULTANT INDIA

Authorized P 10/28 Constant Surveyor & Rage Total Haccour

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 11

Ph.: 03224-275765 Mob. - 94340 17584

e-mail: jayantasarkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: PITCH IMPREGNATION UNIT # 2 SHOP

2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling:

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo         | me Contan               | nination      | TWA<br>Concentration<br>as given in              | Reference  | Number of exposed at | the location |                     | Signature           | Name                 |
|-----------|---------------------------------------|-------------------------------------|-------------------|------------------------|---------------|-------------------------|---------------|--|------------|----------------------|--------------|---------------------|---------------------|----------------------|
|           |                                       | 6 11                                | Monitoring        | Used                   | No. of sample | Range<br>mg/M³          | Avg.<br>mg/M³ | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous           | Short term   | Remark              | of person<br>taking | (in bloc<br>letters) |
|           |                                       | Suspended<br>Particulate<br>Matter  | 08.08.2023        |                        | 3             | 2.587<br>2.516<br>2.453 | 2.519         | 10.0   |            | Exposure 3           | Exposure     | Below               | Samples             | The f                |
| 1.        | PITCH<br>IMPREGNA                     | Respirable<br>Particulate<br>Matter | 00.00.2023        | See                    | 3             | 1.202<br>1.175<br>1.153 | 1.177         | 5.0  | See        | 3                    | -            | PEL<br>Below<br>PEL | Sam Ke              | SUTRAD               |
|           | TION UNIT #                           | Sulphur<br>Dioxide                  | 08:30 AM<br>to    | Annexure-1             | 3             | 0.016<br>0.020<br>0.015 | 0.017         | 5.0  | Annexure-I | 3                    |              | Below<br>PEL        |                     | e                    |
|           |                                       | Nîtrogen<br>Dioxide                 | 04:30 PM          |                        | 3             | 0.036<br>0.041<br>0.034 | 0.037         | 6.0  |            | 3                    | -            | Below<br>PEL        | 8                   | CHATTAI              |

For, INDICATIVE CONSULTANT INDIA

P 11/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Table No. - 12

5606 - 94349 17564 e-mail: jayantarakar@Slamal.com Indicative combanted of sensit con-

Ph. 03224-275365

Result of Analysis of : M/s, GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(Z)(e) of the Act.

1. Name of the Department/Plant : PITCH IMPREGNATION UNIT # 3 SHOP

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling

| SI.<br>No | Location /<br>Operation | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airb          | orne Contain            | ination                   | TWA<br>Concentration<br>as given in | Refirence      | expound at t           | f workers<br>for location |              | Spann                          | Natur      |
|-----------|-------------------------|-------------------------------------|-------------------|------------------------|---------------|-------------------------|---------------------------|-------------------------------------|----------------|------------------------|---------------------------|--------------|--------------------------------|------------|
|           | Monitoring              |                                     | Monitoring        | Used                   | No. of sample | Range<br>mg/M²          | Avg.<br>mg/M <sup>2</sup> | 2" Schodule<br>(mg/M*)              | Motivid        | Continuous<br>Exposure | Shiet sem                 | Remark       | of person<br>taking<br>Samples | (in title) |
|           |                         | Suspended<br>Particulate<br>Matter  | 08.08.2023        |                        | 3             | 2.074<br>2.112<br>2.029 | 2.072                     | 10.0                                |                | 3                      | Espense                   | Below<br>PEL | - howers                       | PTY        |
| ı.        | PITCH<br>IMPREGN        | Respirable<br>Particulate<br>Matter |                   | See                    | 3             | 0.885<br>0.927<br>0.905 | 0.906                     | 5.0                                 | Sea            | 3                      |                           | Helow<br>PEL | defin                          | AB         |
|           | ATION<br>UNIT#3<br>SHOP | Sulphur<br>Dioxide                  | 09:00 AM<br>to    | Annesure-I             | 3             | 0.018<br>0.022<br>0.016 | 0.019                     | 5.0                                 | Annexure<br>-J | 3                      |                           | Below<br>PEL | 0                              |            |
|           |                         | Nitrogen<br>Dioxide                 | 05:00 PM          |                        | 3             | 0.036<br>0.041<br>0.035 | 0.037                     | 6.0                                 |                | 3                      |                           | Bolow<br>PEL | ×                              | CHATTA     |

Form No. - 30

\* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P 12/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 13

Ph 03224-275765 Mob. - 24340 17584

e-mail: jayantasarkar67@email.com/ indicative consultant india@ymail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : BAKING RH # 24 (III)

2. Raw materials, by-products and finished products : See Annexure-1

3. Particular of Sampling .

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | -               | ome Contan                 | ination                   | TWA<br>Concentration<br>as given in              | Reference  | exposed at             | of workers<br>the location<br>workered |              | Signature of person | Name                  |
|-----------|---------------------------------------|-------------------------------------|-------------------|------------------------|-----------------|----------------------------|---------------------------|--|------------|------------------------|--|--------------|---------------------|-----------------------|
|           |                                       |                                     | Monitoring        | Used                   | No of<br>sample | Range<br>mg/M <sup>1</sup> | Avg.<br>mg/M <sup>1</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous<br>Exposure | Short irrm<br>Exposure                 | Romark       | toking<br>Samples   | (in block<br>(etters) |
|           |                                       | Suspended<br>Particulate<br>Matter  | 09.08.2023        |                        | 3               | 2.124<br>2.033<br>2.014    | 2.057                     | 10.0   |            | 3                      | Lighton                                | Below<br>PEL |                     | JA.                   |
| 1.        | BAKING<br>RH # 24 (III)               | Respirable<br>Particulate<br>Matter |                   | See                    | 3               | 0.874<br>0.837<br>0.811    | 0.841                     | 5.0  | See        | 3                      |  | Below<br>PEL | SAP TO SERVICE      | SETTUAD               |
|           |                                       | Sulphur<br>Dioxide                  | 08:15 AM          | Annexure-I             | 3               | 0.015<br>0.019<br>0.014    | 0.016                     | 5.0  | Anneoure-1 | 3                      | 3                                      | Below<br>PEL | 21                  |                       |
|           |                                       | Nitrogen<br>Dioxide                 | 94:15 PM          |                        | 3               | 0.033<br>0.035<br>0.031    | 0.033                     | 6.0  |            | 3                      | 4                                      | Below<br>PEL | 3                   | SAJ<br>SAJ            |

· PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Gichetor P 13/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 14

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Ph. 03224-275765 Mob - 94340 17584 e-mail jayantasarkar67(isgmail.com/ indicativeconsultantadada gmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : LWG # 3 SHOP

2. Raw materials, by-products and finished products: See Annexure-1

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant | Date & Time<br>of<br>Monitoring | Sampling<br>Instrument | Aut              | rome Contain               | ination       | TWA<br>Concentration<br>as given in | Reference    | exposed at | of workers<br>the location |                | 5)gnature           | 1               |
|-----------|---------------------------------------|---------------------------|---------------------------------|------------------------|------------------|----------------------------|---------------|-------------------------------------|--------------|------------|----------------------------|----------------|---------------------|-----------------|
| -         |                                       |                           | secontaing                      | Used.                  | No. of<br>sample | Range<br>mg/M <sup>1</sup> | Avg.<br>mg/M³ | 2 <sup>nd</sup> Schedule            | Method       | Continuous | Short term                 | Remark         | of person<br>taking | Name<br>(in blo |
|           |                                       | Suspended<br>Particulate  | 09.08.2023                      |                        |                  | 2.335                      |               | (mg/M²)                             |              | Exposure   | Exposure                   |                | Samples             | Jetien          |
|           |                                       | Matter                    | 09.08.2023                      |                        | 3                | 2.387                      | 2.356         | 10.0                                |              | 3          |                            | Below          | 24                  | SAP.            |
|           |                                       | Respirable                |                                 |                        |                  | 1.138                      |               |                                     |              |            |                            | PEL            | 6250 T              | SUTE            |
| 1.        | LWG#3<br>SHOP                         | Particulate<br>Matter     |                                 | See                    | 3                | 1.144                      | 1.148         | 5.0                                 | See          | 3          |                            | Below .<br>PEL | M.1                 |                 |
|           | SHOP                                  | Sulphur                   | 08:40 AM                        | Annexure-1             |                  | 0.018                      |               |                                     | Annexure-I   |            |                            | 1.4.0          |                     |                 |
| -         |                                       | Dioxide                   | to                              |                        | 3                | 0.020<br>0.016             | 0.018         | 5.0                                 | S-110 12597. | 3          | -                          | Below<br>PEL   | in                  | -               |
| -1        |                                       | Nitrogen                  | 04:40 PM                        |                        |                  | 0.035                      |               |                                     |              |            |                            |                | 8                   | CHAT            |
|           |                                       | Dioxide                   | 111-111-1111                    |                        | 3                | 0.038                      | 0.035         | 6.0                                 |              | 3          | *                          | Below<br>PEL   |                     | ARAI            |

For, INDICATIVE CONSULTANT INDIA

Authorized

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 15

Ph: 03224-275765 Mob - 94340 17584 e-mail: jayantasarkar67@gmail.com/ indicativeconnultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: LWG # 4 SHOP

2. Raw materials, by-products and finished products: See Annexure-1

| SI.<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airt             | ome Contac                 | ninazion                  | TWA<br>Concentration<br>as given in | Reference  | Number of exposed at s |            |                     | Signature           |                            |
|-----------|---------------------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|-------------------------------------|------------|------------------------|------------|---------------------|---------------------|----------------------------|
| -         |                                       |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>1</sup> | 2" Schedule<br>(mg/M*)              | Method     | Continuous             | Short term | Remark              | of person<br>taking | Nese<br>(in blad<br>(etcm) |
|           |                                       | Suspended<br>Particulate<br>Matter  | 09.08.2023        |                        | 3                | 1.852<br>1.745<br>1.637    | 1.745                     | 10.0                                |            | Exposure 3             | Exposure   | Below               | Sergio              | CIA                        |
| 1.        | LWG#4                                 | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 0.768<br>0.804<br>0.746    | 0.773                     | 5.0                                 | Sec        | 3                      |            | PEL<br>Below<br>PEL | Tapa In             | ELTERAD<br>ALL             |
| 1         | SHOP                                  | Sulphur<br>Dioxide                  | 09:00 AM          | Annexure-1             | 3                | 0.016<br>0.019<br>0.015    | 0.017                     | 5.0                                 | Annexure-I | 3                      |            | Below<br>PEL        |                     |                            |
|           |                                       | Nitrogen<br>Dioxide                 | 05:00 PM          |                        | 3                | 0.038<br>0.042<br>0.036    | 0.039                     | 6.0                                 |            | 3                      |            | Below<br>PEL        | 8                   | CHATTA<br>Al               |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 16

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Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act. 1. Name of the Department/Plant : LWG # 5 SHOP

2. Raw materials, by-products and finished products; See Annexure-1

| SL.<br>No. | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of<br>Monitoring | Sampling<br>Instrument | Ald              | home Contac                      | mination                  | TWA<br>Concentration                                  | Reference         | Number of exposed at a | f workers<br>he location |                | Signetice           |                  |
|------------|---------------------------------------|-------------------------------------|---------------------------------|------------------------|------------------|----------------------------------|---------------------------|---|-------------------|------------------------|--------------------------|----------------|---------------------|------------------|
| 7          |                                       | Suspended                           | Tricornia neg.                  | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup>       | Avg.<br>mg/M <sup>3</sup> | as given in<br>2nd Schoolule<br>(mg/Mt <sup>2</sup> ) | Method            | Continuous             | Short term               | Rosark         | of person<br>taking | Name<br>(in bloc |
| 1          |                                       | Particulate<br>Matter               | 10.08.2023                      |                        | 3                | 1.515                            | 1.567                     | 10.0  |                   | Equage                 | Expense                  | Below          | Samples             | listers          |
|            | LWG#5<br>SHOP                         | Respirable<br>Particulate<br>Matter |                                 | See                    | 3                | 0.685<br>0.644                   | 0.667                     | 5.0   |                   | 3                      |                          | PEL<br>Below   | Taponto             | SUTRAL           |
|            |                                       | Sulphur<br>Dioxide                  | 08:10 AM                        | Annexure-1             | 3                | 0.673<br>0.018<br>0.022<br>0.017 | 0.019                     | 5.0   | See<br>Annexure-1 | ,                      |                          | PEL.  Below    |                     |                  |
| -          |                                       | Nitrogen<br>Dioxide                 | 04:10 PM                        |                        | 3                | 0.042<br>0.045<br>0.041          | 0.043                     | 6.0   |                   | 3                      |                          | PEL. Below PEL | 8                   | SCHATT           |

For, INDICATIVE CONSULTANT INDIA

Parbati Golui Authorized Signation NS

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 17

Ph.: 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com/ indicative consultantindia a gmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : FINISHING # 1 SHOP FLOOR

2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling :

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | (7)14/200        | rne Contam                 | ination                    | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at a<br>being me | the location           | D            | Signature<br>of person | Name                  |
|----------|---------------------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|----------------------------|--|------------|---------------------------------------|------------------------|--------------|------------------------|-----------------------|
|          | 031001013146                          |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>ntg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous<br>Exposure                | Short term<br>Exposure | Remark       | taking<br>Samples      | (in block<br>letters) |
|          |                                       | Suspended<br>Particulate<br>Matter  | 10.08.2023        |                        | 3                | 2.232<br>2.249<br>2.214    | 2.232                      | 10.0   |            | 3                                     | E.Sposife              | Below<br>PEL | W. W.                  | ye feet               |
| L.       | FINISHING                             | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.135<br>1.147<br>1.112    | 1.131                      | 5.0  | See        | 3                                     | (*).                   | Below<br>PEL | N. Bene                | SUTRA                 |
|          | #1 SHOP<br>FLOOR                      | Sulphur<br>Dioxide                  | 08:40 AM          | Annexure-I             | 3                | 0.018<br>0.022<br>0.017    | 0.019                      | 5.0  | Annexure-I | 3                                     | 100                    | Below<br>PEL | 0                      |                       |
|          |                                       | Nitrogen<br>Dioxide                 | 04;40 PM          |                        | 3                | 0.035<br>0.039<br>0.036    | 0.037                      | 6.0  |            | 3                                     |                        | Below<br>PEL | 8                      | CHATI<br>Al           |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Signalers P-17/28

# INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 18

Ph 03224-275765 Mob. - 94340 17584

e-mail - jayantasarkar67(agmail.com/ indicative consultant india a gmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : FINISHING # 2 SHOP FLOOR 2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling

| SL<br>No | Operation Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airtio           | rne Contam                 | ination       | TWA<br>Concentration<br>as given in              | Reference  | Number o      | he location |              | Signature           | Name          |
|----------|----------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------|--|------------|---------------|-------------|--------------|---------------------|---------------|
|          |                      |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M³ | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous    | Short term  | Remark       | of person<br>taking | (in Maci      |
|          |                      | Suspended<br>Particulate<br>Matter  | 10.08.2023        |                        | 3                | 2.254<br>2.225<br>2.207    | 2.229         | 10.0   |            | Exposure<br>3 | Exposure    | Below<br>PEL | Samples             | 日刊200         |
| 1.       | FINISHING<br>#2 SHOP | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.358<br>1.324<br>1.305    | 1.329         | 5.0  | See        | 3             |             | Below<br>PEL | 14                  | SUTRAL<br>HAR |
|          | FLOOR                | Sulphur<br>Dioxide                  | 09:10 AM          | Annexure-I             | 3                | 0.018<br>0.022<br>0.017    | 0.019         | 5.0  | Annexure-1 | 3             |             | Below<br>PEL | 0                   |               |
|          |                      | Nitrogen<br>Dioxide                 | 05:10 PM          |                        | 3                | 0.038<br>0.041<br>0.036    | 0.038         | 6.0  |            | 3             | -           | Below<br>PEL | Z.                  | CHATTA<br>RAJ |

\* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati

## INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 19

Ph 03224-275765 Mob. - 94340 17584 e-mail: Javantaxarkar67(digmail.com/ indicativeconsultantindia agmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : FINISHING # 3 SHOP FLOOR

2. Raw materials, by-products and finished products: See Amexure-1

Particular of Sampling

| SL<br>No | Location /<br>Operation<br>Munitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument |                  | ne Contamb                 | sation        | TWA<br>Concentration<br>as given in               | Reference | exposed at             | of workers<br>the location<br>onitored | Remark       | Signature<br>of person | Name                  |
|----------|---------------------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------|---|-----------|------------------------|--|--------------|------------------------|-----------------------|
|          |                                       |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M³ | 2 <sup>rd</sup> Schedule<br>(oug/M <sup>3</sup> ) | Method    | Continuous<br>Exposure | Short term<br>Exposure                 | remark       | taking<br>Samples      | (in block<br>letters) |
|          |                                       | Suspended<br>Particulate<br>Matter  | 11.08.2023        |                        | 3                | 2.587<br>2.485<br>2.564    | 2.545         | 10.0  |           | 3                      | -                                      | Below<br>PEL | Tabun Vo               | Just T                |
| 1.       | FINISHING                             | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.241<br>1.224<br>1.115    | 1.193         | 5,0   | See       | 3                      |  | Below<br>PEL | del                    | SUTRAD                |
|          | #3 SHOP<br>FLOOR                      | Sulphur<br>Dioxide                  | 08:00 AM<br>to    | Annexure-<br>I         | 3                | 0.018<br>0.021<br>0.017    | 0.019         | 5.0   | Annexure- | 3                      |  | Below<br>PEL | 0                      |                       |
|          |                                       | Nitrogen<br>Dioxide                 | 04:00 PM          |                        | 3                | 0.036<br>0.043<br>0.037    | 0.039         | 6.0   |           | 3                      |  | Below<br>PEL | 8                      | CHATTA<br>AJ          |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parlsati C Authorized

P 10/28

HPL Link Read, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 20

Ph. 03224-275765
Mob. 94340 17584
e-mail: Japannasarker07(Agmail comindicative-consultantischality-mail com-

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: GRAPHITE FINES SCREENING SHOP

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling

| HL.<br>No | Location /<br>Operation     | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo            | nie Cristani                | Ination                   | TWA<br>Concentration<br>as given in              | Reference<br>Method | Number of<br>exposed at 0<br>being son | be location            | Remark        | Signature<br>of person | Name<br>(to block |
|-----------|-----------------------------|-------------------------------------|-------------------|------------------------|------------------|-----------------------------|---------------------------|--|---------------------|--|------------------------|---------------|------------------------|-------------------|
| -         | Monitoring                  | Contominant                         | Monitoring        | Used                   | Nn: of<br>sample | Range<br>ing/M <sup>2</sup> | Avg.<br>mg/M <sup>4</sup> | 2 <sup>nd</sup> Schodule<br>(mg/M <sup>2</sup> ) | Method              | Continuous<br>Exposure                 | Short term<br>Exposure | 2501177355    | taking<br>Samples      | letters)          |
|           |                             | Suspended<br>Particulate<br>Matter  | 11.08.2023        |                        | 3                | 3.074<br>3.053<br>3.027     | 3.051                     | 10,0   |                     | 3                                      | 3)                     | Beline<br>PEL | See VS                 | SUTRA             |
| to        | GRAPHITE                    | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.587<br>1.625<br>1.611     | 1.608                     | 5.0  | See                 | 3                                      | 1940                   | Beliew<br>PEL | . A.Z.                 | HAR               |
|           | FINES<br>SCREENIN<br>G SHOP | Sulphur<br>Dioxide                  | 08:30 AM<br>to    | Annexure-1             | 3                | 0.018<br>0.022<br>0.017     | 0.019                     | 5.0  | Annesure-I          | 3                                      | 91                     | Below<br>PEL  | 70                     |                   |
|           |                             | Nitrogen<br>Dioxide                 | 04:30 PM          |                        | 3.               | 0.038<br>0.042<br>0.037     | 0.039                     | 6.0  |                     | 3                                      |                        | Below<br>PEL  | 8                      | RAJ               |

. PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Gold Authorized Street

P 20/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 21

Ph.: 03224-275765 Mab. - 94340 17584

e-mail: javantasarkar67@gmall.com/ indicativeconsultantindia@gmail.com

Result of Analysis of: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : CANTEEN (KITCHEN AREA)

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling

| SL<br>No | Location /<br>Operation<br>Monitoring  | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument |                  | rne Contain                | Ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at the<br>being me | the location           | Remark       | Signature of person | Name                  |
|----------|--|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|--|------------|---|------------------------|--------------|---------------------|-----------------------|
|          | The second state of the se |                                     | Monitoring        | Used                   | No. af<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>2</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>3</sup> ) | Method     | Continuous<br>Exposure                  | Short term<br>Exposure | ricinara.    | taking<br>Samples   | (in block<br>letters) |
|          |  | Suspended<br>Particulate<br>Matter  | 11.08.2023        |                        | 3                | 1.145<br>1.132<br>1.117    | 1.131                     | 10.0   |            | 3                                       | - Estimate             | Below<br>PEL | 6                   | Sul J                 |
| 1.       | CANTEEN  | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 0.658<br>0.697<br>0.674    | 0.676                     | 5.0  | See        | 3                                       | *:                     | Below<br>PEL | arpor.              | SUTRADI               |
|          | (KITCHE<br>N AREA)   | Sulphur<br>Dioxide                  | 09:00 AM<br>to    | Annexure-I             | 3                | 0.018<br>0.020<br>0.017    | 0.018                     | 5.0  | Annexure-1 | 3                                       |                        | Below<br>PEL |                     |                       |
|          |  | Nitrogen<br>Dioxide                 | 05:00 PM          |                        | 3                | 0,038<br>0,041<br>0.037    | 0.039                     | 6.0  |            | 3                                       | -                      | Below<br>PEL | 8,                  | S<br>CHATTA<br>AJ     |

· PEL - Permissible Esponere Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Go Authorized humbus

P 21/28

## INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 22

Ph 55224-275165 Mob - 94340 17584 e-mail: jayanssarkart/lägmail.com/ indicative considerated and com-

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant: RH - 24 (II)

2. Raw materials, by-products and finished products: See Amexure-1

3. Particular of Sampling :

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument |               | rne Contain                | inution                   | TWA<br>Concentration<br>as given in              | Reference  |                       | f workers<br>the location<br>unitered | Remark       | Signature<br>of person | None<br>(in block |
|----------|---------------------------------------|-------------------------------------|-------------------|------------------------|---------------|----------------------------|---------------------------|--|------------|-----------------------|---------------------------------------|--------------|------------------------|-------------------|
|          | Paramoraig                            |                                     | Monitoring        | Used                   | No. of sample | Range<br>mg/M <sup>3</sup> | Avg,<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Custienus<br>Exposure | Short term<br>Expense                 |              | taking<br>Samples      | intere            |
|          |                                       | Suspended<br>Particulate<br>Matter  | 12.08.2023        |                        | 3             | 1.287<br>1.275<br>1.263    | 1.275                     | 10.0   |            | 3                     | -                                     | Below<br>PEL | (30°)                  | ÇĄ.               |
| 1.       | RH – 24                               | Respirable<br>Particulate<br>Matter |                   | See                    | 3             | 0.741<br>0.732<br>0.714    | 0.729                     | 5.0  | See        | 3                     | 145                                   | Below<br>PEL | O.M.                   | SUTRAD            |
|          | (II)                                  | Sulphur<br>Dioxide                  | 08:10 AM<br>to    | Annexure-1             | 3             | 0.018<br>0.022<br>0.017    | 0.019                     | 5.0  | Annexure-1 | 3                     | 120                                   | Below<br>PEL | 0                      |                   |
|          | İ                                     | Nitrogen<br>Dioxide                 | 04:10 PM          |                        | 3             | 0.036<br>0.042<br>0.035    | 0.038                     | 6.0  |            | 3                     | (20)                                  | Below<br>PEL | 9                      | CHATTA            |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati G Authorized Signators

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 23

Ph 01224-275765 Mob. - 94340 17184 e midl - fayartmarkarli7 agmail.com/ indicative consultantindial symult com-

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : PITCH IMPREGNATION UNIT # 4

2. Raw materials, by-products and finished products: See Annexure-1

| fil.<br>No | Location /<br>Operation | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | 125,000          | rne Contan                 | inetion                    | TWA<br>Concentration<br>as given in               | Reference  | Number of<br>exposed at 1<br>being me | he location             | Remark              | Signature<br>of person | Name<br>Sa tátela |
|------------|-------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|----------------------------|---|------------|---------------------------------------|-------------------------|---------------------|------------------------|-------------------|
|            | Monitoring              |                                     | Monitoring        | Used                   | No. of<br>sample | Hange<br>mg/M <sup>3</sup> | Avg.<br>mg/3d <sup>3</sup> | 2 <sup>nd</sup> lichedale<br>(mg/M <sup>2</sup> ) | Method     | Continuous<br>Exponere                | Short tecos<br>Exposure | THE PERSON NAMED IN | faking<br>Samples      | letters)          |
|            |                         | Suspended<br>Particulate<br>Matter  | 12.08.2023        |                        | 3                | 2.587<br>2.622<br>2.548    | 2,586                      | 10.0  |            | 3                                     |                         | Relow<br>PEL        | 1013                   | M.                |
| 1.         | PITCH<br>IMPREGNATI     | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.287<br>1.266<br>1.247    | 1.267                      | 5.0   | See        | 3                                     |                         | Below<br>PEL        | art .                  | SETTRAD<br>AR     |
|            | ON UNIT#4               | Sulphur<br>Dioxide                  | 08:25 AM<br>to    | Annexure-I             | 3                | 0.018<br>0.020<br>0.017    | 0.018                      | 5.0   | Annexure-I | 3                                     | 24                      | Relow<br>PEL        | 0                      |                   |
|            |                         | Nitrogen<br>Dioxide                 | 04:25 PM          |                        | 3                | 0.038<br>0.041<br>0.036    | 0.038                      | 6.0   |            | 3.                                    |                         | Below<br>PEL        | S.                     | CHATTA            |

PEL – Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized

P-23/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 24

Ph. 03224-275765 Mob. - 94346 17584 e-mail jayantasurkar67/agmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : LWG UNIT # 4 AUTO DUST BAGGING AREA (DURING BAGGING)

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling:

| SL<br>No | Location /<br>Operation     | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo            | rne Contam                 | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at a<br>being no | the location           | Remark       | Signature<br>of person | Name                  |
|----------|-----------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|--|------------|---------------------------------------|------------------------|--------------|------------------------|-----------------------|
|          | Monitoring                  |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>2</sup> | Avg.<br>mg/M <sup>2</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous<br>Exposure                | Short term<br>Exposure | Property to  | taking<br>Samples      | (in block<br>(etters) |
|          |                             | Suspended<br>Particulate<br>Matter  | 12.08.2023        |                        | 3                | 3.784<br>3.745<br>3.697    | 3.742                     | 10.0   |            | 3                                     | •                      | Below<br>PEL | rak                    | T                     |
|          | LWG<br>UNIT#4<br>AUTO DUST  | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.874<br>1.751<br>1.682    | 1.769                     | 5.0  | See        | 3                                     | (4)                    | Below<br>PEL | 340                    | HULK                  |
| L.       | AREA<br>(DURING<br>BAGGING) | Sulphur<br>Dioxide                  | 08:50 AM<br>to    | Annexure-1             | 3                | 0.018<br>0.020<br>0.015    | 0.018                     | 5.0  | Annesure-1 | 3                                     | 143                    | Below<br>PEL | 0                      |                       |
|          |                             | Nitrogen<br>Dioxide                 | 04:50 PM          |                        | 3                | 0.042<br>0.045<br>0.041    | 0.043                     | 6.0  |            | 3                                     | 140                    | Below<br>PEL | 0                      | CHATTA                |

· PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P 24/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 25

Ph: 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : STORE SHOP FLOOR

2. Raw materials, by-products and finished products: See Amexure-1 3. Particular of Sampling :

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant                                  | Date & Time<br>of<br>Munitoring | Sampling<br>Instrument | lastrument       |                            | inution                   | TWA<br>Concentration<br>as given in              | Reference | Number of exposed at a | the location |              | Signature<br>of person | Name                  |
|----------|---------------------------------------|--|---------------------------------|------------------------|------------------|----------------------------|---------------------------|--|-----------|------------------------|--------------|--------------|------------------------|-----------------------|
| -        | Contract of                           | Comments   |                                 | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>2</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method    | Continuous             | Short term   | Remark       | taking<br>Samples      | (in block<br>letters) |
|          |                                       | Suspended Particulate Matter 14.08.2023 3 3.215 3.219 10.0 | Exposure 3                      | Exposure               | Below<br>PEL     |                            | day.                      |  |           |                        |              |              |                        |                       |
| ,        | STORE SHOP                            | Respirable<br>Particulate<br>Matter                        |                                 | See                    | 3                | 2.122<br>2.147<br>2.069    | 2.113                     | 5.0  | See       | 3                      | -            | Below<br>PEL | The second second      | SUTRADE<br>AR         |
|          | FLOOR                                 | Sulphur<br>Dioxide   | 08:00 AM<br>to                  | Annexure-1             | 3                | 0.016<br>0.022<br>0.017    | 0.018                     | See Annexure-1 3 -                               | *:        | Below<br>PEL           |              |              |                        |                       |
|          |                                       | Nitrogen<br>Dioxide  | 04:00 PM                        |                        | 3                | 0.036<br>0.042<br>0.034    | 0.037                     | 6.0  |           | 69                     |              | Below<br>PEL | 4                      | CBATTA<br>AJ          |

· PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized \$16

HPL Link Road, Busudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt Regn No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 26

Ph. 03224-275765 Mob. - 94340 17584

e-mail: jayuntaxarkar67(a)gmail.com/ indicative consultantindia agmail com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : MAINTANANCE SHOP FLOOR

2. Raw materials, by-products and finished products: See Amexure-1 3. Particular of Sampline :

| SL<br>No | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | 1000000          | rne Contam                 | ination                   | TWA<br>Concentration<br>as given in              | Reference  | Number of<br>exposed at the<br>being me | be location            | Remark       | Signature<br>of person | Name   |
|----------|---------------------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|--|------------|---|------------------------|--------------|------------------------|--|
| _        | - Francisco Sag                       |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg.<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>2</sup> ) | Method     | Continuous<br>Exposure                  | Short term<br>Exposure | Treasure.    | taking<br>Samples      | letters)   |
|          |                                       | Suspended<br>Particulate<br>Matter  | 14.08.2023        |                        | 3                | 3,114<br>3,059<br>3,206    | 3.126                     | 10.0   |            | 3                                       | -                      | Below<br>PEL | No. 4.S                | Name (in block letters)  Name (in block letters)  SUTEADH AZ |
| I.       | MAINTANAN                             | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.658<br>1.744<br>1.583    | 1.662                     | 5.0  | See        | 3                                       |                        | Below<br>PEL | ard.                   |  |
|          | CE SHOP<br>FLOOR                      | Sulphur<br>Dioxide                  | 08:20 AM<br>to    | Annexure-1             | 3                | 0.016<br>0.022<br>0.015    | 0.018                     | 0.018 5.0  | Annexure-I | 3                                       | 5                      | Below<br>PEL | 75                     |  |
|          |                                       | Nitrogen<br>Dioxide                 | 04:20 PM          |                        | 3                | 0.038<br>0.042<br>0.035    | 0.038                     |  |            | 3                                       |                        | Below<br>PEL | 3                      |  |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Settal

P 26/28

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. -27

Ph.: 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67(asmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : LWG #5 AUTO DUST BAGGING AREA (DURING BAGGING)

2. Raw materials, by-products and finished products: See Annexure-1

Particular of Sampling :

| SL<br>No   | Location /<br>Operation<br>Monitoring | Identified<br>Contaminant  |            | Operation Identified | peration Identified 0 | Date & Time<br>of          | Sampling<br>Instrument | Airte  | rne Contam         | ination                | TWA<br>Concentration<br>as given in | Reference    | Number of<br>exposed at the<br>being me | he location   | Remark of per | Signature<br>of person | Name<br>(in block |
|--|---------------------------------------|--|------------|----------------------|-----------------------|----------------------------|------------------------|--|--------------------|------------------------|-------------------------------------|--------------|---|---------------|---------------|------------------------|-------------------|
|  | Monitoring                            |  | Monitoring | Used                 | No. of<br>sample      | Range<br>mg/M <sup>3</sup> | Avg.                   | 2 <sup>nd</sup> Schedule<br>(mg/M <sup>b</sup> ) | Method             | Continuous<br>Exposure | Short term<br>Exposure              | PACHINI N    | faking<br>Samples                       | letters)      |               |                        |                   |
| LWG #5   AUTO DUST   BAGGING   AREA (DURING BAGGING)   Nitrogen Dioxide   Nitrogen Diox |                                       | 3  |            | Below<br>PEL         | Carp Vo               | Çall T                     |                        |  |                    |                        |                                     |              |   |               |               |                        |                   |
|  | AUTO DUST                             | Particulate  |            | See                  | 3                     | 2,048                      | 2.113                  | 5.0  | See                | 3                      |                                     | Below<br>PEL | Carporto                                | SUTRAD        |               |                        |                   |
|  | (DURING                               | TO CONTRACT OF THE PARTY OF THE | to         | Annexure-I           |                       | 0.023                      | 0.019                  | 5.0  | See Annexure-1 3 - | -                      | Below<br>PEL                        |              |   |               |               |                        |                   |
|  |                                       |  | 04:50 PM   |                      | 3                     |                            | 0.038                  | 9 5.0  |                    | 3                      | -                                   | Below<br>PEL | 8                                       | CHATTA<br>RAJ |               |                        |                   |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Susa

HPL Link Road, Basudevpur, Khanjanchak Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 28

Ph.: 03224-275765 Mob. - 94340 17584

e-mail: jayantasurkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis of : M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : GRAPHITE ACHESAN SHOP

2. Raw materials, by-products and finished products: See Annexure-1

3. Particular of Sampling :

| SL<br>No | Location /<br>Operation | Identified<br>Contaminant           | Date & Time<br>of | Sampling<br>Instrument | Airbo            | rne Contam                 | ination                   | TWA<br>Concentration<br>as given in | Reference<br>Method | exposed at t           | Number of workers<br>exposed at the location<br>being monitored Res |              | Signature<br>of person | Name<br>(in block |
|----------|-------------------------|-------------------------------------|-------------------|------------------------|------------------|----------------------------|---------------------------|-------------------------------------|---------------------|------------------------|---|--------------|------------------------|-------------------|
| 17770    | Monitoring              |                                     | Monitoring        | Used                   | No. of<br>sample | Range<br>mg/M <sup>3</sup> | Avg,<br>mg/M <sup>3</sup> | 2 <sup>nd</sup> Schedule<br>(mg/M³) | Mession             | Continuous<br>Exposure | Short term<br>Exposure  | C. 11.       | Samples                | letters)          |
|          |                         | Suspended<br>Particulate<br>Matter  | 09.08.2023        |                        | 3                | 3.145<br>3.035<br>3.044    | 3.075                     | 10.0                                |                     | 3                      | (2)   | Below<br>PEL | 40                     | person (in block  |
| 1.       | GRAPHITE                | Respirable<br>Particulate<br>Matter |                   | See                    | 3                | 1.895<br>1.955<br>1.927    | 1.926                     | 5.0                                 | See                 | 3                      | -   | Below<br>PEL | Kolom                  |                   |
|          | SHOP                    | Sulphur<br>Dioxide                  | 08:15 AM<br>to    | Annexure-I             | 3                | 0.015<br>0.025<br>0.019    | 0.020                     | 5.0                                 | Annexure-1          | 3                      | PEL Below PEL   | 0            | 281                    |                   |
| ı        |                         | Nitrogen<br>Dioxide                 | 04:15 PM          |                        | 3                | 0.037<br>0.043<br>0.034    | 0.038                     | 6.0                                 |                     | 3                      | is:   | Below<br>PEL | 0                      | CHATTA            |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P 28/28

Form No. - 30

61616666666666

Table No. - 1

Ph. 03224-275765

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Mob - 94340 17584 e-mail: jayantasarkar67@gmail.com/indicativeconsultantindia@gmail.com

M/s, GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

#### RESULT OF WORK ZONE MONITORING:-

1. Name of the Department/Plant: BAKING RH # 24 (III)

2. Raw materials, by-products and finished products: -

3. Particular of Sampling: - Respirable dust sampler

| Location /<br>Operation<br>monitoring | Identified contaminants  | Date & Time<br>of<br>Monitoring          | Air Contaminants | TWA Concentration as given in Factory's Act: 2nd Schedule (mg/M²) | Sampling<br>Instrument<br>used and<br>Reference<br>method | Remark    | Signature | Name<br>(in block letters) |  |
|---------------------------------------|--|--|------------------|---|---|-----------|-----------|----------------------------|--|
|                                       | Methyl Alcohol<br>(as CH <sub>2</sub> OH)                      |  | <0.1             | 260   |   | Below PEL | 00        | A.<br>BHATTACHARYA         |  |
| BAKING                                | Ethyl Alcohol<br>(as C <sub>2</sub> H <sub>2</sub> OH)         | 14.08.2023<br>09:10 AM<br>to<br>05:10 PM | <0.1             | 1900  | See<br>Annexure-1   | Below PEL | (0)       | BHATTACHARYA               |  |
| RH#24<br>(III)                        | Formic Acid<br>(as HCOOH)                                      |  | <0.05            | 9   |   | Below PEL |           |                            |  |
|                                       | Benzene<br>(as C <sub>6</sub> H <sub>6</sub> )                 |  | <0.05            | 20  |   | Below PEL |           | 5.                         |  |
|                                       | Toluene<br>(as C <sub>4</sub> H <sub>3</sub> CH <sub>3</sub> ) |  | < 0.05           | 375   |   | Below PEL | 2         | CHATTARAJ                  |  |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati ( Authorized Signat

P 1/6

Form No. - 30

Table No. - 2

Ph: 03224-275763

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.; WB-12-0000228

Mob. - 94340 17384 e-mail: jayantasarkar67(agmail.com/indicativeconsultantindia/agmail.com

M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

## RESULT OF WORK ZONE MONITORING:-

- 1. Name of the Department/Plant: RIED HAMMER 24 (I) SECTION SHOP
- 2. Raw materials, by-products and finished products: -3. Particular of Sampling: - Respirable dust s

| Location /<br>Operation<br>monitoring | Identified contaminants  | Date & Time<br>of<br>Monitoring | Air Contaminants | TWA Concentration as given in Factory's Act: 2 <sup>nd</sup> Schedule (mg/M²) | Sampling<br>Instrument<br>used and<br>Reference  | Remark    | Signature | Name<br>(in block letters)              |  |
|---------------------------------------|--|---------------------------------|------------------|---|--|-----------|-----------|---|--|
|                                       | Methyl Alcohol<br>(as CH <sub>3</sub> OH)                                |                                 | <0.1             | 260   | method   |           |           | 100000000000000000000000000000000000000 |  |
| ********                              | Ethyl Alcohol  | 07.08.2023                      | -46.1            | 200   |  | Below PEL | - COM     | A.<br>BHATTACHARYA                      |  |
| RIED                                  | (as C <sub>2</sub> H <sub>5</sub> OH)                                    |                                 | <0.1             | 1900  |  | Below PEL | 002       | BHATTACHARYA                            |  |
| HAMMER                                | Formic Acid  |                                 |                  |   | See  | MOSOW YEL | 25        |   |  |
| 24 (I)                                | (as HCOOH)   | 08:45 AM                        | < 0.05           | 9   | Company of the compan | Below PEL |           |   |  |
| SECTION SHOP                          | Benzene<br>(as C <sub>6</sub> H <sub>6</sub> )                           | to<br>04:45 PM                  | < 0.05           | 20  | Annexure-1   |           |           |   |  |
|                                       | Toluene  |                                 |                  | 20  |  | Below PEL | V         | S.<br>CHATTARAJ                         |  |
|                                       | (as C <sub>c</sub> H <sub>3</sub> CH <sub>3</sub> )<br>e Exposure Limit. |                                 | < 0.05           | 375   |  | Below PEL | A         | CHATTAKAJ                               |  |

For, INDICATIVE CONSULTANT INDIA

Parbati Dolaf Authorized Signatory



P 2/6

Form No. - 30

Table No. - 3

Ph. 03224-275765

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com/indicativeconsultantindia@gmail.com

## M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

## RESULT OF WORK ZONE MONITORING:-

- 1. Name of the Department/Plant: BAKING TUNNEL KILN SHOP
- 2. Raw materials, by-products and finished products: -

3. Particular of Sampling: - Respirable dust sampler

| Location /<br>Operation<br>monitoring | Identified contaminants  | Date & Time<br>of<br>Monitoring         | Air Contaminants | TWA Concentration as given in Factory's Act; 2 <sup>nd</sup> Schedule (mg/M²) | Sampling<br>Instrument<br>used and<br>Reference<br>method | Remark    | Signature | Name<br>(in block letters) |  |
|---------------------------------------|--|---|------------------|---|---|-----------|-----------|----------------------------|--|
|                                       | Methyl Alcohol<br>(as CH <sub>1</sub> OH)                      |   | <0.1             | 260   |   | Below PEL |           |                            |  |
|                                       | Ethyl Alcohol<br>(as C <sub>2</sub> H <sub>3</sub> OH)         | 08.08.2023                              | <0.1             | 1900  | See<br>Annexure-I   | Below PEL | 1702      | BHATTACHARY                |  |
| BAKING<br>TUNNEL                      | Formic Acid<br>(as HCOOH)                                      | 08:10 AM<br>to<br>04:10 PM              | <0.05            | 9   |   | Below PEL | 11390     |                            |  |
| KILN<br>SHOP                          | Benzene<br>(as C <sub>6</sub> H <sub>6</sub> )                 |   | <0.05            | 20  |   | Below PEL | 0         |                            |  |
| mental 5                              | Toluene<br>(as C <sub>6</sub> H <sub>3</sub> CH <sub>3</sub> ) | 100000000000000000000000000000000000000 | <0.05            | 375   |   | Below PEL | 9         | CHATTARAJ                  |  |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory

Form No. - 30

Table No. - 4

Ph 10754-272303

HPL Link Road, Hasudevpur, Khanjanchak, Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Mat - 54549 17564 e-mail: jayantararkart/laggical const substative constitution and deposit some

M/s. GRAPHITE INDIA LTD.

Address; Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

## RESULT OF WORK ZONE MONITORING:-

- 1. Name of the Department/Plant: P.L UNIT 2 SHOP
- 2. Raw materials, by-products and finished products: -

3. Particular of Sampling: - Respirable dust sampler

| Location /<br>Operation<br>monitoring | Identified contaminants  | Date & Time<br>of<br>Monitoring | Air Contaminants | TWA Concentration as given in Factory's Act: 2 <sup>nd</sup> Schedule (mg/M²) | Sampling<br>Instrument<br>used and<br>Reference<br>method | Remark    | Signature | Name<br>(in block learn) |
|---------------------------------------|--|---------------------------------|------------------|---|---|-----------|-----------|--------------------------|
|                                       | Methyl Alcohol<br>(as CH <sub>2</sub> OH)                      | 44.000                          | <0.1             | 260   | DELBOO  | Below PEL |           |                          |
|                                       | Ethyl Alcohol<br>(as C <sub>2</sub> H <sub>5</sub> OH)         | 08.08.2023                      | <0.1             | 1900  |   | Below PEL | 109       | BEATTACHARYS             |
| P.I. UNIT -<br>2 SHOP                 | Formic Acid<br>(as HCOOH)                                      |                                 | <0.05            | 9   | See 1   | Below PEL | 1.7       |                          |
|                                       | Benzene<br>(as C <sub>6</sub> H <sub>6</sub> )                 | 08:30 AM<br>to                  | <0.05            | 20  | Annexure-1  | Below PEL | 0         |                          |
|                                       | Toluene<br>(as C <sub>6</sub> H <sub>5</sub> CH <sub>5</sub> ) | 04:30 PM                        | <0.05            | 375   |   | Below PEL | 3         | CHATTARAI                |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

P46

Form No. - 30

Table No. - 5

Ph 01224-273743 MAN 94140 FT564

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

e-mail: jayantasarkar67(a) gmail.com/ indicative consultantindsa/a gmail.com

M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

#### RESULT OF WORK ZONE MONITORING:-

- 1. Name of the Department/Plant: ACHESON FURNACE SHOP
- 2. Raw materials, by-products and finished products: -

3. Particular of Sampling: - Respirable dust sampler

| Location /<br>Operation<br>monitoring | Identified contaminants                                | Date & Time<br>of<br>Monitoring | Air Contaminants | TWA<br>Concentration an<br>given in Pactory's Act<br>(2 <sup>nd</sup> Schodule<br>(mg/M <sup>2</sup> ) | Sampling<br>Instrument<br>used and<br>Reference<br>method | Remark    | Signature | Nunc<br>(in Muck intern) |
|---------------------------------------|--|---------------------------------|------------------|--|---|-----------|-----------|--------------------------|
|                                       | Methyl Alcohol<br>(as CH <sub>2</sub> OH)              |                                 | <0.1             | 260  |   | Below PEL | -0.0      | A.                       |
|                                       | Ethyl Alcohol<br>(as C <sub>2</sub> H <sub>2</sub> OH) | 09.08.2023                      | <0.1             | 1900   |   | Below PEL | (0)       | SHATTACHARYA             |
| ACHESON                               | Formic Acid<br>(as HCOOH)                              | 08:15 AM                        | <0.05            | 2  | See<br>Annexure-1   | Below PEL |           |                          |
| SHOP                                  | Benzene<br>(as C <sub>4</sub> H <sub>6</sub> )         | to                              | <0.05            | 20   |   | Below PEL | 2         | GIATTABAI                |
|                                       | Toluene<br>(as CoHoCHa)                                | 04:15 PM                        | <0.05            | 375  |   | Below PEL | 18        | CHAILMAN                 |

PEL - Permissible Exposure Limit.

For INDICATIVE CONSULTANT INDIA

Authorized Signator

HPI, Link Road, Basudevpur, Khanjanchuk, Haldia, Purha Medinipur/721602 Ciovi Regn.No.-1-64871, MSME Reg. No.: WB-12-0000228 Eurm 20, - 30

Table No. - 6

Ph 05224-275765

Hab 94340 17584 e-mail jayuntasarkart/lasynail.com/ indicatives consultariorded synail com

M/s, GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengai

## RESULT OF WORK ZONE MONITORING:-

- Name of the Department/Plant; LWG 4 SHOP
- 2. Raw materials, by-products and finished products: -

3. Particular of Sampling: - Respirable dust sampler

| Location /<br>Operation<br>monitoring | Identified contaminants  | Date & Time<br>of<br>Monitoring | Air Contaminants | TWA Concentration as given in Factory's Act :2 <sup>nd</sup> Schedule (mg/M²) | Sampling<br>Instrument<br>uned and<br>Reference | Remark          | Signature | Name<br>(in block letters) |
|---------------------------------------|--|---------------------------------|------------------|---|---|-----------------|-----------|----------------------------|
|                                       | Methyl Alcohol<br>(as CH <sub>2</sub> OH)                      |                                 | <0.1             | 260   | method  |                 |           |                            |
|                                       | Ethyl Alcohol  | 09.08.2023                      | -0.1             | 200   |   | Relow PEL       |           |                            |
|                                       | (as C <sub>2</sub> H <sub>5</sub> OH)                          | 07.00.2023                      | <0.1             | 1900  |   | Below PEL       | 00        | BRATTACIONEY               |
| LWG-4                                 | Formic Acid  |                                 |                  |   | See   | CONTROL A SERV. | 112       | A                          |
| SHOP                                  | (as HCOOH)   | 09:00 AM                        | < 0.05           | 9   | Annexure-1                                      | Below PEL       |           |                            |
|                                       | Benzene  | to                              | < 0.05           | 2001  | Nonexure-1                                      | 0.011           |           |                            |
| - 1                                   | (as C <sub>6</sub> H <sub>6</sub> )                            | 05:00 PM                        | 90.00            | 20  |   | Below PEL       | 0         |                            |
|                                       | Toluene<br>(as C <sub>6</sub> H <sub>5</sub> CH <sub>5</sub> ) |                                 | <0.05            | 375   |   | Below PEL       | S.        | S.<br>CHATTARAJ            |

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. -1

Ph.- 03224-275765 Mob. - 94340 17584

e-mail: jayantasarkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SL<br>No | Location  | Parameter   | Date of<br>Monitoring                   | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|-----------|-------------|---|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---------------------|------------------------------------|--|-----------------------------|
|          |           |             |   |                  |                               | 82.4                    |                    |               |                       |                     |                                    | Japan Kus                                  | m                           |
|          |           |             |   |                  |                               | 81.9                    |                    |               |                       |                     |                                    | Party Service                              | T.                          |
|          |           |             |   |                  |                               | 82,6                    |                    |               | · -                   |                     |                                    | No.  | SUTRAD                      |
|          | EXTRUSI   |             |   |                  |                               | 83.2                    |                    |               | Exposure<br>Limit for |                     |                                    |  | HAR                         |
| 1.       | ON#1      | Noise level | 08.08.2023                              | 09:40 AM         | Annexure-1                    | 82.4                    | 82.9               | 8 hrs.        | Industrial            | Annexure-1          | 2                                  |  |                             |
|          | MIXER     | Monitoring  | 110000000000000000000000000000000000000 |                  | 137777533M7 G-3               | 83.0                    | 0412               | - O. HE25     | workers               | AUNETHICA I         | 3                                  |  |                             |
|          | FLOOR     |             |   |                  |                               | 83.1                    | ]                  |               | (8 hrs.) =            |                     |                                    | 13   |                             |
|          | 100000000 |             |   |                  |                               | 84.2                    | ]                  |               | 90 dB(A)              |                     |                                    | 1.1  | S.                          |
|          |           |             |   |                  |                               | 82.8                    |                    |               | 7.70                  |                     |                                    | 1  | CHATTA                      |
|          |           |             |   |                  |                               | 83.0                    |                    |               |                       |                     |                                    |  | RAJ                         |

For, INDICATIVE CONSULTANT INDIA



P 1/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 2

Ph - 03224-273761 Mab - 94140 17184 e-mail jayantasarkar67(damuil.com/ indicative consultantindiality mall com-

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 15 M

| SL<br>No | Location                           | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|------------------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|-----------------------------|
| 1.       | EXTRUSI<br>ON #1<br>WEIGH<br>FLOOR | Noise level<br>Monitoring | 08.08.2023            | 10:20 AM         | Annexure- I                   | 81.6<br>83.2<br>82.4<br>82.2<br>81.9<br>83.6<br>82.4<br>82.0<br>81.8 | 82.3               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers<br>(8 hrs.) =<br>90 dB(A) | Annexure-           |                                    | Capon Vin                                  | T. SUTRAD HAR               |

For, INDICATIVE CONSULTANT INDIA



P 2/26

# 3333333333333777

#### INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30

Table No. -3

Ph - 03224-275765 Mab - 94340-17384 e-mail jayantasarkur67@gmail.com indicativeconsultantinda@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

Distance from the Machine: 3.0 M

| SL<br>No | Location                            | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit   | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|-------------------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|---|---------------------|------------------------------------|--|-----------------------------|
| 1.       | EXTRUSI<br>ON #1<br>COOLER<br>FLOOR | Noise level<br>Monitoring | 08.08.2023            | 11:05 AM         | Annexure-1                    | 82.4<br>81.6<br>82.1<br>83.2<br>81.9<br>83.6<br>82.4<br>82.8<br>83.0 | 82.6               | 8 hrs.        | Exposure<br>Limit for<br>Industria<br>I workers<br>(8 hrs.) =<br>90 dB(A) | Annexure-1          | *                                  | Separate S                                 | SUTRAD HAR                  |

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P.3/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30 Table No. -4

Ph-03224-275765 Mob. - 94340 17584 e-mail jayantasarkar67(agmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location                  | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)                              | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|-----------|---------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|-----------------------------|
| 1.        | EXTRUSI<br>ON #1<br>PRESS | Noise level<br>Monitoring | 08.08.2023            | 11:50 AM         | Annexure- I                   | 79.6<br>81.2<br>78.8<br>82.4<br>83.1<br>82.0<br>81.9 | 81.6               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers | Annexure- I         | 3                                  | Salan day                                  | T.<br>SUTRADE<br>AR         |
|           | FLOOR                     |                           |                       |                  |                               | 82.6<br>82.8<br>81.8                                 |                    |               | (8 hrs.) =<br>90 dB(A)                         |                     |                                    | Si   | S.<br>CHATTAR<br>AJ         |

For, INDICATIVE CONSULTANT INDIA



P 4/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 5

Ph - 03224-275763 Afob. - 04340 17384

e-mail jayuntasarkar67(ilgmail.com/ indicativeconsultantindia/ilgmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

Distance from the Machine: 3.0 M

| SL<br>No | Location       | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                   | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|----------------|---------------------------|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|-------------------------|---------------------|------------------------------------|--|-----------------------------|
|          |                |                           |                       |                  |                               | 82.4                    |                    |               |                         |                     |                                    | - 0  | 0 =                         |
|          |                |                           |                       |                  |                               | 81.6<br>81.8            | -                  |               |                         |                     |                                    | 40   | SUTRAL                      |
|          |                |                           |                       |                  |                               | 82.0                    |                    |               | Exposure                |                     |                                    | Calent F                                   | HAR                         |
|          | EXTRUSI        | 200000                    | 00.00.2023            | 05:20 PM         | Annexure-1                    | 81.9                    | 82.0               | 8 hrs.        | Limit for<br>Industrial | Annexure-1          | 3.                                 |  |                             |
| 1.       | ON #2<br>PRESS | Noise level<br>Monitoring | 09.08.2023            | 05120 1 141      | January 2                     | 82.1                    |                    |               | workers                 |                     |                                    | -  |                             |
|          | FLOOR          | terominoring              |                       |                  |                               | 81.8                    | -                  |               | (8 hrx.) =<br>90 dB(A)  |                     |                                    |  | 8                           |
|          | LLOOK          |                           |                       |                  |                               | 82.6                    | -                  |               | yo an(a)                |                     |                                    | 9  | CHATE                       |
|          |                |                           |                       |                  |                               | 81.1                    | -                  |               |                         |                     |                                    | 1  | RAU                         |

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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.; WB-12-0000228

Ph-01224-275763 Mub. 94340 17584

e-mail jayantasarkar6791gmail.com/ indicative consultantindio (a ymail com

Form No. - 30 Table No. -6

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

|          |                                       |                           |                       | 1                |                               | _  |                    |               |  |                     | Distance                           | from the Mac | thine: 3.01                 |
|----------|---------------------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--------------|-----------------------------|
| SL<br>No | Location                              | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed |              | Name in<br>block<br>fetters |
| 1.       | EXTRUSI<br>ON #2 14<br>METER<br>FLOOR | Noise level<br>Monitoring | 09.08.2023            | 06:05 PM         | Annexure-1                    | #2,9<br>#3,1<br>#2.4<br>#1.6<br>#2.0<br>#3,3<br>#2.7<br>#2.5<br>#3,1 | 82.6               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers<br>(8 hrs.) =<br>90 dB(A) | Annesure            | 3.                                 | 8            | SUIRADE AR                  |

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P 6/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228 Ph. 03224-273763

indicativeconsultantindialitymail.com

Mob. - 94348 17584 e-mail: Javantasarkar67(iligmail.com/

Form No. -30

Table No. - 7

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 15 M

| SL<br>No | Location               | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit   | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|---|---------------------|------------------------------------|--|-----------------------------|
| 1.       | BAKIN<br>G-24<br>(III) | Noise level<br>Monitoring | 14.08.2023            | 11:30 AM         | Annexure I                    | 82.0<br>84.1<br>85.4<br>80.2<br>83.9<br>82.9<br>81.2<br>54.0<br>83.9 | 84.4               | 8 hrs.        | Exposure<br>Limit for<br>Inclusivisa<br>I workers<br>(8 fex.) =<br>90 dB(4) | Annexure-1          | 3                                  | 8  | SUTRADIS<br>AN<br>CHATTAR   |

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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph-03224-275763 1666 - 94348 17384 e-mail: jayantasarkar67@gmail.com/

Form No. - 30 Table No. -8 indicative considerated and grant com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location | Parameter   | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name is<br>block<br>letters |
|-----------|----------|-------------|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---------------------|------------------------------------|--|-----------------------------|
|           |          |             |                       |                  |                               | 82.3                    |                    |               |                       |                     | Lapones                            |  |                             |
|           | BAKING   |             |                       |                  |                               | 81.9<br>82.4            |                    |               |                       |                     |                                    | 120  | am.                         |
|           | RH- 14   |             |                       |                  |                               | 80.8                    |                    |               | Exposure              |                     |                                    | Super                                      | SUTRAL                      |
| L         | SECTIO   | Noise level | 08.08.2023            | 02:40 PM         | Annexure-1                    | 82.6                    | 82.3               |               | Limit for             |                     |                                    | 2  | HAIL                        |
|           | N        | Monitoring  | 751000077550          |                  | CHARLES A.                    | 83.2                    | 94557              | 8 hrs.        | Industrial<br>workers | Annexure-1          | 3                                  |  |                             |
|           | SHOP     |             |                       |                  |                               | 82.4                    |                    |               | (8 hrs.) =            |                     |                                    | 95   |                             |
|           | FLOOR    |             |                       |                  |                               | 81.8                    |                    |               | 90 dB(4)              |                     |                                    | 100  | X.                          |
|           |          |             |                       |                  |                               | 82.6                    |                    |               | 0.00                  |                     |                                    | 756  | CHATT                       |

82.9

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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.; WB-12-0000228

Form No. - 30 Table No. - 9

Ph 03724-375765 Mob 94140 17584

e-mail juyantasarkar67(a gmad cow indicative ansultanandido em il com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location                          | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)                      | Average<br>Reading | Total<br>Time | Limit                               | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|-----------|-----------------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|-------------------------------------|---------------------|------------------------------------|--|-----------------------------|
| 1.        | BAKING<br>RH- 16<br>SHOP<br>FLOOR | Noise level<br>Monitoring | 08.08.2023            | 02:05 PM         | Annexure-1                    | 83.0<br>81.4<br>80.8<br>82.9<br>82.0<br>82.4 | 81.9               | 8 hrs.        | Exposure<br>Limit for<br>Industrial | Annexure-1          |                                    | Tayon Was                                  | T.<br>SUTRADH<br>AR         |
|           | 22.57.58                          | Minomoring                |                       |                  |                               | 81.6<br>82.8<br>81.1                         |                    |               | workers<br>(8 hrs.) =<br>90 dB(A)   |                     |                                    | 8  | S.<br>CHATTAR               |

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P 9/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 10

Ph - 03724-275763 Mah 54240 17584

e mill jayamanakar6702 smull com indicative consultantialistic general com-

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SL.<br>No | Location     | Parameter                               | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block letters |
|-----------|--------------|---|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|------------------------|---------------------|------------------------------------|--|--------------------------|
|           |              |   |                       |                  |                               | 81.8                    |                    |               |                        |                     |                                    | 0  | the                      |
|           | BAKING       |   |                       |                  |                               | 83.2                    |                    |               |                        |                     |                                    | Att of                                     | T.<br>SUTRADHA           |
|           | RH-<br>24(I) |   |                       |                  |                               | 82.8                    |                    |               | Exposure               |                     |                                    | Lubin.                                     | R                        |
| 1.        | SECTIO       | Noise level                             | 08.08.2023            | 03:15 PM         | Annexure-1                    | 81.8                    | 82.1               | 8 hrs.        | Limit for<br>Industria | Annexure-1          | 3                                  |  |                          |
| 30.       | N            | Monitoring                              |                       | 2015/04/4/4      |                               | 82.4                    | 10,000.00          | 0.300.00      | I warkers              | STONE STONE STONE   | 580                                |  |                          |
|           | SHOP         | 100000000000000000000000000000000000000 |                       |                  |                               | 87.9                    |                    |               | (8 hrs.) =             |                     |                                    | - 75                                       |                          |
|           | FLOOR        |   |                       |                  |                               | 80.9                    |                    |               | 90 dB(A)               |                     |                                    | 0  | 260                      |
|           |              |   |                       |                  |                               | 81.6                    |                    |               |                        |                     |                                    | 07   | CHATTARAJ                |
|           |              |   |                       |                  |                               | 82.5                    |                    |               |                        |                     |                                    |  | STREET STREET            |

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P 10/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 39 Table No. - 11

PR-55734-275746 3664 S4540 17584 e-mostl japanessarkur&!\Stagmitt.com/ selection constructed of great con

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Sengal

| Heigi    | at from the | floor: 1.5 M |                       |                  |                               |                         |                    |               |                       |                     | Dinbinos f                          | cont the 56m2                              | tise : 3.0 0                |
|----------|-------------|--------------|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---------------------|-------------------------------------|--|-----------------------------|
| SL<br>No | Location    | Parameter    | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method | Number<br>of<br>Persons<br>exprosed | Signature<br>of person<br>taking<br>numple | Numer is<br>Mode<br>Setters |
|          |             |              |                       |                  |                               | 82.1                    |                    |               |                       |                     |                                     |  | 200                         |
|          |             |              |                       |                  |                               | 83.2                    | ]                  |               |                       |                     |                                     | 4  | SETTEMBE<br>SETTEMBE        |
|          |             |              |                       |                  | 1 1                           | 8,08                    |                    |               | Fireman               |                     |                                     | 100  | AR                          |
|          |             |              |                       |                  |                               | 81.9                    |                    |               | Exposure<br>Limit for |                     |                                     |  |                             |
| 001      | G RH -      | Noise level  | 68.08.2023            | 03:50 PM         | Annexure-1                    | 82.2                    | 82.3               | 8 feet        |                       | Annecure-1          | 3                                   |  |                             |
| 1,       | 24 (11)     | Monitoring   | Grant Charles         | teresine a see   |                               | 82.6                    |                    |               | / workers             |                     |                                     |  |                             |
|          | 20.000      | 1            |                       |                  |                               | 83.0                    |                    |               | (8 hrs.) =            |                     | 1                                   | 0  |                             |
|          |             |              |                       |                  |                               | 82.4                    | 4                  |               | 90 dB(A)              |                     |                                     | Y  | E                           |
|          |             |              |                       |                  |                               | 81.6                    |                    |               |                       |                     |                                     | 2/   | CHATTAR                     |
|          |             |              |                       |                  |                               | 82.7                    |                    |               |                       |                     |                                     |  | 7597                        |

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P 11/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.; WB-12-0000228

Form No. -30

Table No. - 12

Ph-03224-275765 Mob. - 94340 17584

e-mail: jayantasarkar67(a)gmail.com/ Indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SL<br>No | Location            | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)                      | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|---------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|-----------------------------|
| 1.       | BAKIN<br>G<br>TUNNE | Noise level<br>Monitoring | 09.08.2023            | 09:35 AM         | Annexure- I                   | 82.6<br>83.2<br>81.4<br>82.2<br>81.9<br>82.1 | 82.1               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers | Annexure-1          | 3                                  | Toplan W. Str                              | T.<br>SUTRAD<br>HAR         |
|          | LKILN               |                           |                       |                  |                               | 80,9<br>81.6<br>82.3<br>82.7                 |                    |               | (8 krs.) =<br>90 dB(A)                         |                     |                                    | \$   | S.<br>CHATTA<br>RAJ         |

For, INDICATIVE CONSULTANT INDIA

P 12/26

HPL Link Road, Hasudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph 03224-271763 Mob 94140 17584

e mail jayantatarkirti7(consil conindicative ansiltantindia i gmail com

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

Distance from the Machine: 3.0 M

| SL<br>No | Location  | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|---|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|-----------------------------|
| I,       | PITCH<br>IMPICE<br>GNATI<br>ON<br>UNIT #2<br>SHOP | Noise level<br>Monitoring | 08.08.2023            | 05:05 PM         | Annexure-1                    | 87.2<br>81.9<br>81.2<br>81.6<br>80.4<br>83.0<br>82.9<br>82.7<br>81.3 | 82,2               | 8 brs.        | Exposure<br>Limit for<br>Industrial<br>workers<br>(8 hrs.) =<br>90 dH(4) | Annesure            | à                                  | S.   | SUTRAD HAR                  |

Form No. - 30

Table No. - 13

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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30 Table No. -14

Ph.- 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

Distance from the Machine: 3.0 M

| SL<br>No | Location                                     | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit   | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|--|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|---|---------------------|------------------------------------|--|-----------------------------|
| 1.       | PITCH<br>IMPREG<br>NATION<br>UNIT #3<br>SHOP | Noise level<br>Monitoring | 08.08.2023            | 04:25 PM         | Annexure-1                    | 80.8<br>82.4<br>81.9<br>82.6<br>83.1<br>82.4<br>82.8<br>81.8<br>82.2<br>82.6 | 82.3               | 8 hrs.        | Exposure<br>Limit for<br>Industria<br>I workers<br>(8 hrs.) =<br>90 dB(A) | Annexure- I         | 3                                  | Amport Vin Se                              | T. SUTRAD HAR  S. CHATTA    |

For, INDICATIVE CONSULTANT INDIA



P 14/26

## INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Fb - 03324-275765 Moh 94340 17584 e-mail japantusarkar6761;postl.com/ Form No. - 30

Table No. - 15

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

triclicutive consultant adiotics weed com-

| SI.<br>No | Location | Parameter   | Date of<br>Monitoring   | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading |        | Limit                  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name is<br>block<br>letters |
|-----------|----------|-------------|---|------------------|-------------------------------|-------------------------|--------------------|--------|------------------------|---------------------|------------------------------------|--|-----------------------------|
|           |          |             |   |                  |                               | 81.8                    |                    |        |                        |                     |                                    | 20   | 1                           |
|           |          |             |   |                  |                               | 82.4                    |                    |        |                        |                     |                                    | -5.56                                      | T.                          |
|           | PITCH    |             |   |                  |                               | 83.6                    |                    |        |                        |                     |                                    | May man                                    | SUTRAL                      |
|           | IMPRE    |             |   |                  |                               | 82.9                    |                    |        | Exposure               |                     |                                    | died.                                      | HAR                         |
| E         | GNATI    | Noise level | 08.08.2023  | 05:40 PM         | Annexure-1                    | 82.2<br>82.5            | 82.4               | 8 hrs. | Limit for<br>Industria |                     |                                    |  |                             |
|           | ON       | Monitoring  | CONTRACTOR OF THE PARTY OF THE | 551150-5100      |                               | 82.5                    | 1,000              | 0.185  | Lworkers               | Annexure-1          | 3                                  |  |                             |
|           | UNIT#    |             |   |                  |                               | 81.8                    |                    |        | (8 hrs.) =             |                     |                                    |  |                             |
|           | 4 SHOP   |             |   | 1                |                               | 82.4                    | 1                  |        | 90 dB(A)               |                     |                                    | 166  | .2                          |
|           |          |             |   |                  |                               | 81.9                    |                    |        |                        |                     |                                    | 6)   | CHATTA                      |
|           |          |             |   |                  |                               | 82.6                    | 1                  |        |                        |                     |                                    | 1758                                       | RAI                         |

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30 Table No. -16

Ph-03224-275765 Mab. - 94340 17384 e-mail . Jayantasarkar67/agmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SL<br>No | Location          | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)                      | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|-------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|-----------------------------|
| 1.       | LWG#<br>3<br>SHOP | Noise level<br>Monitoring | 09.08.2023            | 10:50 AM         | Annexure-1                    | 82.4<br>81.9<br>82.7<br>82.5<br>81.8<br>81.6 | 82.4               | 8 hrs.,       | Exposure<br>Limit for<br>Industrial<br>workers | Annexure-1          |                                    | Japanson                                   | SUTRADH<br>AR               |
|          |                   |                           |                       |                  |                               | 82.6<br>83.1<br>82.4<br>82.8                 |                    |               | (8 hrs.) =<br>90 dB(A)                         |                     |                                    | 8  | S.<br>CHATTAR               |

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph - 03224-275765 Mob. - 94340 17584

Form No. -30 Table No. - 17

e-mail jayantasarkar67@gmail.com/ Indicative consultantindia agmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal Height from the floor: 1.5 M

| SI.<br>No | Location  | Parameter   | Date of    | Starting | Sampling          | Sound          |                    |               | _                      |                     | Distance fi        | rom the Maci        | hine - 2 n    |
|-----------|-----------|-------------|------------|----------|-------------------|----------------|--------------------|---------------|------------------------|---------------------|--------------------|---------------------|---------------|
|           |           |             | Monitoring | Time     | Instrument<br>Use | Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                  | Reference<br>Method | of                 | Signature of person | Name          |
|           |           |             |            |          |                   | 81.8           |                    |               | -                      | - Tetalog           | Persons<br>exposed | taking<br>sample    | hlock         |
|           | LWG#      |             |            |          |                   | 82.3<br>82.4   |                    |               |                        |                     |                    | . 0                 | A E           |
| 1.        | 4<br>SHOP | Noise level | 09.08.2023 | 10:10 AM | Annexure-1        | 82.9<br>81.6   | 22.0               |               | Exposure<br>Limit for  |                     |                    | ( change            | SUTRAD        |
|           | suor      | Monitoring  |            |          | - Innexare-1      | 81.7           | 82.3               | 8 hrs.        | Industrial<br>workers  | Annexure-1          | 3                  | Sec. 1              |               |
|           |           |             |            |          |                   | 82.5<br>82.8   |                    |               | (8 hrs.) =<br>90 dB(A) |                     |                    |                     |               |
|           |           |             |            |          | -                 | 83.0           |                    |               | so anti-th             |                     |                    | 21                  | S.<br>CHATTAR |

For, INDICATIVE CONSULTANT INDIA



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INDICATIVE CONSULTANT INDIA HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govl.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30

Table No. - 18

Ph-03224-275765

Mob - 94340 17384 e-mail jayansasarkar67(agmail.com/ indicativeconsultantindiata.gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location | Parameter   | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level | Average<br>Reading | Total<br>Time | Limit                 | Reference | Number<br>of | om the Mack<br>Signature<br>of person | Name in          |
|-----------|----------|-------------|-----------------------|------------------|-------------------------------|----------------|--------------------|---------------|-----------------------|-----------|--------------|---------------------------------------|------------------|
|           |          |             |                       |                  | Use                           | dB(A)          | - seconding        | 3.me          | S=1150                | Method    | Persons      | taking                                | block<br>letters |
|           | 22200    |             |                       |                  |                               | 79,4           |                    |               |                       |           | exposed      | sample                                | ACTIONS          |
|           | LWG      |             |                       |                  |                               | 78.4           |                    |               |                       |           |              | 0                                     | 1                |
|           | UNIT#4   |             |                       |                  |                               | 77.6           |                    |               |                       |           |              | 468                                   | T                |
| 100       | (AUTO    |             |                       |                  |                               | 79.8           |                    |               | Exposure              |           |              | KAME                                  | SUTRAD           |
| 1.        | DUST     | Noise level | 09.08.2023            | 12:10 PM         | Annexure-1                    | 80.6           | 79.4               |               | Limit for             | -         | 9            | ORI                                   | HAR              |
|           | BAGGIN   | Monitoring  |                       |                  |                               | 79.3           | 12.9               | 8 hrs.        | Industrial            | Anneque   | 3            |                                       |                  |
|           | G AREA)  |             |                       |                  |                               | 81.2           |                    |               | workers<br>(8 hrs.) = | 1         |              |                                       |                  |
|           |          |             |                       |                  | [                             | 79.4           |                    |               | 90 dB(A)              |           |              | 20                                    | 14               |
|           |          |             |                       |                  |                               | 78.6           |                    |               | 30 abjut              |           |              | 0                                     | CHATTA           |
|           |          |             | 3                     |                  |                               | 79.9           |                    |               |                       | 7         |              | 54                                    | RAF              |

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph - 03224-273763 Arich - 94340 17584

e-mail: jayareasorker67/lignal.com/ indicatives invultantinducing mail com-

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 15 M

| SL<br>No | Location | Parameter   | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                  | Heference<br>Method | Number<br>of<br>Persons | Signature<br>of person<br>taking | Name In<br>Muck |
|----------|----------|-------------|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|------------------------|---------------------|-------------------------|----------------------------------|-----------------|
|          |          |             |                       |                  |                               | 82.3                    |                    |               |                        |                     | exposed                 | somple                           | hetters         |
|          |          |             |                       |                  |                               | 81.6                    |                    | 10 /          |                        |                     |                         | .0                               | A               |
|          | LWG#     |             |                       |                  |                               | 82.9                    |                    |               | WOLLD AND THE          |                     |                         | Topic yes                        | SUZURADI        |
| L.       | 5        | Noise level | 09.08.2623            | ******           |                               | 82.4<br>81.6            | 743500             |               | Exposure<br>Limit for  |                     |                         | John.                            | AX              |
|          | SHOP     | Monitoring  | WF.00.2023            | 11:30 AM         | Annexure-1                    | 80.4                    | 82.0               | B.hrs.        | Industrial             | Анницие             | 3                       |                                  |                 |
| - 1      |          |             |                       |                  |                               | 82.2                    |                    |               | workers                | 1                   |                         |                                  |                 |
|          |          |             |                       |                  |                               | 81.6                    |                    |               | (8 hrs.) =<br>90 dB(A) |                     |                         | 11                               | 100             |
|          | - 1      |             |                       |                  |                               | 82.0                    |                    |               | 7.17.110.00.00         |                     |                         | X                                | CHATTAI         |
|          |          |             |                       |                  |                               | 81.1                    |                    |               |                        |                     |                         | 15                               | 5               |

Form No. - 30

Table No. - 19

For, INDICATIVE CONSULTANT INBIA.



14,19,76

HPI, Link Road, Basudevpar, Khanjanchak Haldia; Purba Medinipur-721602 Ciovt Regn. No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 20

Ph - 03724-275705 Mob 94140 17584

e-mail - Jayantasarkarh (Gymail com) indicative constitutional as great con-

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location     | Parameter                 | Date of    | Starting       | Sampling          | Sound          |                    |               |                         |                     | Distance i              | from the Mac                     | hine : 3.01      |
|-----------|--------------|---------------------------|------------|----------------|-------------------|----------------|--------------------|---------------|-------------------------|---------------------|-------------------------|----------------------------------|------------------|
| 1000      |              |                           | Monitoring | Time           | Instrument<br>Use | Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                   | Reference<br>Method | Number<br>of<br>Persons | Signature<br>of person<br>taking | Name in<br>block |
|           |              |                           |            |                |                   | 80.4           |                    |               |                         |                     | exposed                 | nample                           | letters          |
|           |              |                           |            |                |                   | 81.9           |                    |               |                         |                     |                         | (1)                              | 1                |
|           | FINISHIN     |                           | 11         |                |                   | 81.6           |                    |               | 4000000                 |                     |                         | John Jak                         | L                |
| 1.        |              | Market Tours              | www.www.vv | -5/10/2000 CIT |                   | 82.4           |                    |               | Exposure                |                     |                         | John .                           | SUTRADE          |
| **        | G<br>#1 SHOP | Noise level<br>Monitoring | 09.08.2023 | 12:55 PM       | Annexure-1        | 81.0           | 81.9               | 8 hrs.        | Limit for<br>Industrial | Annexure-           |                         |                                  | rs.es            |
|           | FLOOR        | ····amcanig               |            |                |                   | 82.1<br>81.6   | 0.50000            | Seamon.       | workers                 | /                   | 3                       |                                  |                  |
| - 1       |              |                           |            |                |                   | 82.9           |                    |               | (8 hrs.) =              | 1100                |                         | 100                              |                  |
|           |              |                           |            |                |                   | 82.2           |                    |               | 90 dB(A)                |                     |                         | 13                               | 5.               |
| _         |              |                           |            |                |                   | 83.0           |                    |               |                         |                     |                         | 8                                | CHATTAR          |

For, INDICATIVE CONSULTANT INDIA



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HPI, Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. -21

Ph. 93724-271765 1600 24340 17384 e-mail japantasarkar&Yazmail.com indiconseconsitionindiel agricul com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 15M

| SI.<br>No | Location | Parameter   | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name is<br>block<br>letters |
|-----------|----------|-------------|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---------------------|------------------------------------|--|-----------------------------|
|           |          |             |                       |                  |                               | 82.6<br>81.8            |                    |               |                       |                     |                                    |  | SUTRAD                      |
|           | FINISHIN |             |                       |                  |                               | 82.4                    |                    |               | Exposure              |                     | - 2                                | Trate Co.                                  | HAR                         |
| 1.        | #2       | Noise level | 09.08.2023            | 62.10 DE         | 1270000000000000              | 83.2<br>82.2            | 82.4               | 27/22         | Limit for             |                     |                                    |  |                             |
| Ar.       | SHOP     | Monitoring  | 09.08.2023            | 02:10 PM         | Annexure-1                    | 82.9                    | 0.649              | 8 hrs.        | Industrial<br>workers | Annexure-1          | 3                                  |  |                             |
|           | FLOOR    |             |                       |                  |                               | 81.1                    |                    |               | (8 hrs.) =            |                     |                                    | 20   |                             |
|           |          |             |                       |                  |                               | 81.6                    |                    |               | 90 dB(A)              |                     |                                    | (Lin                                       | S.                          |
|           |          |             |                       |                  |                               | 83.0<br>82.7            |                    |               |                       |                     |                                    | 20   | CHATTA<br>RAJ               |

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 22

Ph - 03224-275765 Mob - 94340 17384

e-mail: jaysmasarkar67@gmail.com indicative consultantindia (sigmail com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SI.<br>No | Location                   | Parameter                               | Date of<br>Monitoring  | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample |              |
|-----------|----------------------------|---|--|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---------------------|------------------------------------|--|--------------|
|           |                            |   |  |                  |                               | 82.4                    |                    |               |                       |                     |                                    | 0.   | 0/           |
|           |                            |   |  |                  |                               | 82.0                    |                    |               |                       |                     |                                    | 100  | ^\T          |
|           | FINISHIN                   |   |  |                  |                               | 81.6                    |                    |               |                       |                     |                                    | Yelpon Nova                                | SUTRAD       |
|           | G                          |   |  |                  |                               | 83.2                    |                    |               | Exposure<br>Limit for |                     |                                    | Tend                                       | HAR          |
| 1.        | #3 SHOP                    | Noise level                             | 09.08.2023   | 02:45 PM         | Annexure-1                    | 82.4                    | 82,2               | 8 hrs.        | Industrial            | Annexure-1          | - 1                                |  |              |
| 170       | FLOOR                      | Monitoring                              | The section of the se | VAL 40 1 111     | STATE CONTROL OF              | 81.9                    |                    | o ma.         | workers               | Sameward- 5         | 30                                 |  |              |
|           | (t), TH (t), (t), (t), (t) | I I to the first territory of the first |  |                  |                               | 83.0                    |                    |               | (8 hrs.) =            |                     |                                    | 100  |              |
|           |                            |   |  |                  |                               | 82.4                    |                    |               | 90 dB(A)              |                     |                                    | ()   | 8            |
|           |                            |   |  |                  |                               | 81.1                    |                    |               |                       |                     |                                    | 0  | S.<br>CHATTA |
|           |                            |   |  |                  |                               | 82.3                    |                    |               |                       |                     |                                    |  | RAL          |

For INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph-03224-275765

Mob. - 94340 17584 e-mail: jayantasarkar67(a)gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

|           |          |  |                       |                  |                               |                         |                    |               | ,                     |   | Distance fr                        | om the Mach                                | ine: 3.0 h                  |
|-----------|----------|--|-----------------------|------------------|-------------------------------|-------------------------|--------------------|---------------|-----------------------|---|------------------------------------|--|-----------------------------|
| SI.<br>No | Location | Parameter  | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method                     | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|           |          |  |                       |                  |                               | 80.4                    |                    |               |                       |   |                                    | 1  | N-                          |
|           |          |  |                       |                  | 1                             | 78.4                    |                    |               |                       |   |                                    | 160  | SUTRAD                      |
|           |          |  |                       |                  | 3                             | 79.8                    |                    |               | **********            |   |                                    | Indian Yer                                 | HAR                         |
|           | GRAPHIT  |  |                       |                  |                               | 81.4                    | 10000              |               | Exposure<br>Limit for |   |                                    | 2.7  |                             |
| 1         | F        | Noise level  | 09.08.2023            | 03:20 PM         | Annexure-1                    | 79.6                    | 80.0               | 8 hrs.        | Industrial            | Annexure-1                              | 3                                  |  |                             |
| 1.        | ACHESO   | Monitoring   | 47.00.2020            | Transmitt & Ith  | - January L. J.               | 78.6                    |                    | W. 411-20     | workers               | 330000000000000000000000000000000000000 |                                    |  |                             |
|           | N        | in the state of th |                       |                  | 3                             | 79.4                    |                    |               | (8 hrs.) =            |   |                                    | 0  | 100                         |
|           | SHOP     |  |                       |                  | 3                             | 80.9                    |                    |               | 90 dB(A)              |   |                                    | X  | S.<br>CHATTA                |
|           |          |  |                       |                  |                               | 79.8                    |                    |               |                       |   |                                    | 0)   | RAJ                         |
|           |          |  |                       |                  |                               | 81.2                    |                    |               |                       |   |                                    |  |                             |

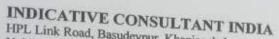
Form No. - 30

Table No. -23

For, INDICATIVE CONSULTANT INDIA



P.23/26



HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph-93224-275765 Mab. - 94340 17384

Form No. -30 Table No. -24 e-mail: Jayantasarkar67@gmail.com/ Indicative consultantindia agmail com

Result of Analysis: M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| 22.       |   |                           |                       |                  |                               |  |                    |               |  | ]                   | Distance fro                       | m the Machi                                | ne - 3.0 M                                 |
|-----------|---|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|--|---------------------|------------------------------------|--|--|
| SI.<br>No | Location                                    | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit  | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample |  |
| 1.        | GRAPHIT<br>E<br>FINES<br>SCREENI<br>NG SHOP | Noise level<br>Monitoring | 09.08.2023            | 04:00 PM         | Annexure-1                    | 81.6<br>82.4<br>80.6<br>82.7<br>81.9<br>82.9<br>83.6<br>83.2<br>82.4 | 82.3               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers<br>(8 hrs.) =<br>90 dB(A) | Annexure- I         | 3                                  | Related &                                  | T.<br>SUTRAD<br>HAR<br>S.<br>CHATTA<br>RAJ |

For, INDICATIVE GONSULTANT INDIA



P 24/26

HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. -30

Table No. -25

Ph.- 03224-275765 Mob. - 94340 17584 e-mail: jayantasarkar67@gmail.com/ indicativeconsultantindia/agmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 15M

| SL<br>No | Location                | Parameter                 | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use | Sound<br>Level<br>dB(A)  | Average<br>Reading | Total<br>Time | Limit   | Reference<br>Method | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name in<br>block<br>letters |
|----------|-------------------------|---------------------------|-----------------------|------------------|-------------------------------|--|--------------------|---------------|---|---------------------|------------------------------------|--|-----------------------------|
| 1.       | CORE<br>SAMPL<br>E SHED | Noise level<br>Monitoring | 09.08.2023            | 04:40 PM         | Annexure- I                   | 79.4<br>81.2<br>78.4<br>80.6<br>81.1<br>82.4<br>80.6<br>81.4<br>79.2 | 80.3               | 8 hrs.        | Exposure<br>Limit for<br>Industrial<br>workers<br>(8 ftrs.) =<br>90 dB(A) | Annexure-1          | 3                                  | Goga Val                                   | T. SUTRAL HAR               |

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak Haldia; Purba Medinipur-721602 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. -26

Ph - 03224-275765 Mob - 94340 17584 e-mail: Jayantasarkar67@gmail.com/ indicativeconsultantindia@gmail.com

Result of Analysis: M/s. GRAPHITE INDIA LTD., Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

| SL<br>No | Location | Parameter     | Date of<br>Monitoring | Starting<br>Time | Sampling<br>Instrument<br>Use           | Sound<br>Level<br>dB(A) | Average<br>Reading | Total<br>Time | Limit                 | Reference<br>Method  | Number<br>of<br>Persons<br>exposed | Signature<br>of person<br>taking<br>sample | Name<br>in<br>block<br>letters |
|----------|----------|---------------|-----------------------|------------------|---|-------------------------|--------------------|---------------|-----------------------|--|------------------------------------|--|--------------------------------|
|          |          |               |                       |                  |   | 87.2                    |                    |               |                       |  |                                    | 0  | W+                             |
|          |          |               |                       |                  |   | 86.4                    |                    |               |                       |  |                                    | Nov  | SUTRA                          |
|          |          |               |                       |                  |   | 88.9                    |                    |               | -                     |  |                                    | Topon Do                                   | DHAR                           |
|          |          |               |                       |                  |   | 88.2                    |                    |               | Exposure<br>Limit for |  |                                    | 3/21                                       |                                |
|          | FINISHI  | Person of the | TO ORDER DESCRIPTION  |                  | 911111111111111111111111111111111111111 | 88.4                    | 87.9               | 8 hrs.        | Industrial            | Annexure-1   | 3                                  |  |                                |
| 1.       | NG       | Noise level   | 14.08.2023            | 12:25 PM         | Annexure-1                              | 87.6                    |                    | St. smort     | workers               | The state of the s |                                    | 1  |                                |
|          | UNIT#    | Monitoring    |                       |                  |   | 88.9                    |                    |               | (8 hrs.) =            |  | 1                                  | 193  |                                |
|          | 4        |               |                       |                  |   | 88.4                    | ]                  |               | 90 dB(A)              |  |                                    | 8  | S.<br>CHATT                    |
|          |          |               |                       |                  |   | 86.1                    |                    |               |                       |  |                                    | 136  | ARAJ                           |
|          |          |               |                       |                  |   | 88.6                    |                    |               |                       |  |                                    |  |                                |

For, INDICATIVE CONSULTANT INDIA



P.26/26

HPL Link Road, Basudevpur, Khanianchak Haldia, Purba Mcdinipur - 721 602

Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN - 713 211, (West Bengal)

Register Containing Particulars of Testing of Illumination Level.

Form No. - 30

Table No. - 1

FW 00224-273765 Mo6 - Selet 17584

e-mail joyanissarker\$75gmail.com/ indicative openiture india Organial com

| SL<br>No.      | Name of Locations   | Parameter    | Date & Time of<br>Monitoring | Sampling<br>Instrument Used | Reference<br>Method | Illumination<br>Level in Lax | Limit     | Remarks         | Signature  | None         |
|----------------|---|--------------|------------------------------|-----------------------------|---------------------|------------------------------|-----------|-----------------|--|--------------|
|                | EXTRUSION #1 MIXER WORKING AREA                                       |              |                              | THE REAL PROPERTY.          | 1/0/23/80/92        |                              | Len       | Dilitrativisor: | E-Charles of the Control of the Cont | Titano.      |
| 2              | EXTRUSION #1 WEIGH WORKING AREA                                       |              |                              |                             |                     | 212                          | 45        | Adequate        |  |              |
| 3              | EXTRUSION #2 PRESS WORKING AREA                                       |              |                              |                             |                     | 225                          | 65        | Adequate        |  | No           |
| 4              | EXTRUSION #2 14 MTR. WORKING FLOOR                                    |              |                              |                             |                     | 165                          | - 65      | Adequate        |  | A            |
|                | REID HAMMER BAKING-14 WORKING AREA                                    |              |                              |                             |                     | 122                          | 65        | Adequate        | J. 197   | The state of |
|                | REID HAMMER BAKING-16 WORKING AREA                                    | -1           |                              |                             |                     | 225                          | 65        | Adequate        | APT .  | SUTRADEA     |
|                | REID HAMMER BAKING-24 (I) WORKING AREA                                | -            |                              | 1                           |                     | 174                          | 65        | Adequate        |  |              |
|                | REID HAMMER BAKING-24 (II) WORKING AREA                               | 7            |                              |                             |                     | 365                          | 65        | Adequate        | 4  |              |
|                | BAKING TUNNEL KILN WORKING AREA                                       | =            | 09.08.2023                   | Digital Lux                 | By Digital          | 305                          | 65        | Adequate        | 1  |              |
| 10             | PITCH IMPREGNATION UNIT # 2 WORKING AREA                              | 7            |                              | Meter                       | Lux Meter           | 480                          | 65        | Adequate        | 1  |              |
| 11             | PITCH IMPREGNATION UNIT # 3 WORKING AREA                              | 7            | 6:50 PM                      |                             |                     | 251                          | 65        | Adequate        | 1  |              |
| 12             | LWG#3 WORKING AREA  |              | to                           |                             |                     | 161                          | 65        | Adequate        |  |              |
| <b>contact</b> | LWG# 4 WORKING AREA   |              | 8:50 PM                      |                             |                     | 142                          | 65        | Adequate        |  |              |
| -              | GRAPHITE ACHESON WORKING AREA   | Illumination |                              |                             |                     | 207                          | 65        | Adequate        | ]  |              |
|                | FINISHING # 1 WORKING AREA  |              |                              |                             |                     | 311                          | 65        | Adequate        |  |              |
| -              | FINISHING # 2 WORKING AREA  |              |                              |                             |                     | 404                          | 65        | Adequate        | 4  |              |
|                | FINISHING #3 WORKING AREA   |              |                              |                             |                     | 145                          | 65        | Adequate        |  |              |
|                | LWG#5 WORKING AREA  |              |                              |                             |                     | 116                          | 65        | Adequate        | 10   |              |
| 18             | PITCH IMPREGNATION UNIT # 4 WORKING AREA                              |              |                              |                             |                     | 470                          | 65        | Adequate        | 1 15%  | CHATTARA     |
|                |   |              |                              |                             |                     | 155                          | 65        | Adequate        | O.   | CENTRACE     |
|                | MAINTENANCE DEPARTMENT  | 7            |                              |                             |                     | 154                          | 65        | Adequate        | 1  |              |
|                | MAIN STORE AREA   |              |                              |                             |                     | 157                          | 65        | Adequate        | 1  |              |
| 22             | CANTEEN   |              |                              |                             |                     | 121                          | 65        | Adequate        | 1  |              |
|                | NEAR MAIN GATE (OLD PLANT)  | =            |                              |                             |                     | 245                          | 65        | Adequate        | 1  |              |
| 24             | LABORATORY  |              |                              |                             |                     | 184                          | 65        | Adoptie         | TAL  |              |
| 25             | REID HAMMER BAKING-24(III) WORKING AREA<br>FINISHING # 4 WORKING AREA |              | (4) of section 17            |                             |                     | 143                          | For, INDI | CATTO           | LEANNO   |              |

Note: As per Factories Rules, 1958: Rule No R 31 (prescribed under sub section (4) of section 17

HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602

Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: EXTRUSION #1MIXER FLOOR

Wet Bulb

Table No. - 1

Ambient Temperature Dry Bulb On 10.08,2023 35.0°C 28.0°C Ambient Air flow - 48 m/min SE to NW

| SI.<br>No | Location                                | Parameter                       | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6                            | Volume of<br>Air<br>change/Hr | Velocity of<br>Air                      | Dry/We<br>Temper<br>work | ature at              | Limit  | Reference<br>Method | Remarks  | Signature | Num                   |
|-----------|---|---------------------------------|---------------------------------|--------------------------------|---|-------------------------------|---|--------------------------|-----------------------|--|---------------------|----------|-----------|-----------------------|
| 1.        | Inside<br>Work<br>Place                 | Volume of<br>Air change         | 10.08,2023                      |                                | 1712.9 m <sup>1</sup> × 6<br>=<br>10,277.4 m <sup>2</sup> | 21815.34<br>m²                | ŧ.                                      |                          |                       | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place |                     | Adequate | 000 -     | A.<br>HHATT.<br>CHARY |
|           | Inside                                  | Velocity of                     | 10,08,2023                      |                                |   |                               | 36 m/min- at<br>the entrance<br>gate    |                          |                       | 30 month at<br>work place<br>at 1.3 M                  | Annesure-1          | Adequate | 100       |                       |
| 2.        | Work<br>Place                           | Air at work<br>place            | 02:10 PM                        | Annexure- I                    |   |                               | 36 m/min –<br>at middle of<br>the plant |                          |                       | height.  | Annesure 1          | Adequate | 0         |                       |
| 3.        | Inside<br>Work<br>Place At<br>middle of | Temperature<br>at work<br>place | 03:35 PM                        |                                | *   |                               |   | Dry<br>Bulb<br>37.0°C    | Wet<br>Bulb<br>29.5°C | Wet Bulb<br>less than<br>30° C                         |                     | Adequate | N. C.     | S<br>CHATTA<br>EAZ    |

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HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602
Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.
Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Table No. - 2

Name of Department/Plant: EXTRUSION #2 PRESS FLOOR

| Ambient Temperature | Dry Bulh       | Wet Bulb |
|---------------------|----------------|----------|
| On 11.08.2023       | 31.0°C         | 27.0°C   |
| Ambient Air flow -  | 54 m/min SE to | NW       |

| SI.<br>No | Location   | Parameter                           | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6                               | Volume of<br>Air<br>change/Hr | Velocity of<br>Air                      | Temper      | et bulb<br>ature at<br>place | Limit  | Reference<br>Method | Remarks  | Signature | Name                  |
|-----------|--|-------------------------------------|---------------------------------|--------------------------------|--|-------------------------------|---|-------------|------------------------------|--|---------------------|----------|-----------|-----------------------|
| 1.        | Inside<br>Work<br>Place                              | Volume of<br>Air change             | 11.08.2023                      |                                | 18048.6 m <sup>5</sup> x<br>6 =<br>1,08,291.6 m <sup>5</sup> | 825214.58<br>m <sup>3</sup>   |   |             |                              | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place |                     | Adequate | 00        | A<br>BBATTA<br>CHARYA |
| 2.        | Inside<br>Work<br>Place                              | Velocity of<br>Air at work<br>place |                                 | Annexure-1                     |  |                               | 42 m/min –<br>at middle of<br>the plant |             |                              | 30 m/min at<br>work place at<br>1.5 M height           | Annexure-1          | Adequate |           | 540670                |
| 3.        | Inside<br>Work<br>Place At<br>middle of<br>the plant | Temperature<br>at work<br>place     | 10:30 AM<br>to<br>11:50 AM      |                                | *  |                               |   | Dry<br>Bulb | Wet<br>Bulb<br>28.0°C        | Wet Bulb<br>less than<br>30° C                         |                     | Adequate | g.        | S CHATTA RAJ          |

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the plant

HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602

Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: BAKING RH - 16 SHOP FLOOR

Table No. - 3

| Dry Bulb | Wet Bulb |
|----------|----------|
| 36.0°C   | 29.0°C   |
|          |          |

| SI.<br>No | Location                   | Parameter                           | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6                                    | Volume of<br>Air<br>change/Hr | Velocity of<br>Air   | Dry/Wet<br>Temperati<br>work pl | are at                | Limit  | Reference<br>Method | Remarks           | Signature | Name                   |
|-----------|----------------------------|-------------------------------------|---------------------------------|--------------------------------|---|-------------------------------|--|---------------------------------|-----------------------|--|---------------------|-------------------|-----------|------------------------|
| 1.        | Inside<br>Work<br>Place    | Volume of<br>Air change             |                                 |                                | 46832.32 m <sup>3</sup><br>X 6 =<br>2,80,993.92<br>m <sup>3</sup> | 353756.26<br>m <sup>3</sup>   |  |                                 |                       | Vol. of Air<br>change hr<br>>6 x Vol. Of<br>work place |                     | Adequate          | 00        | A.<br>SHATTA<br>CHARTA |
| 2.        | Inside<br>Work<br>Place    | Velocity of<br>Air at work<br>place | 08.08.2023<br>02:05 PM          | Annexure-1                     | -   |                               | 36 m/min -<br>at LHS of<br>furnace<br>36 m/min -<br>at RHS of<br>furnace<br>42 m/min-<br>at the middle |                                 |                       | 30 m/min at<br>work place at<br>1.5 M height           | Amonre I            | Adequate Adequate |           |                        |
| 3.        | Inside<br>Work<br>Place At | Temperature<br>at work              | 03:25 PM                        |                                |   |                               |  | Dry<br>Bulb<br>38.0°C           | Wei<br>Bulb<br>29,0°C | Wet Bulb<br>Jess than<br>30° C                         |                     | Adequate          | à         | S.<br>CHATTE<br>BAC    |

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the plant

HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602

Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.,

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: PITCH IMPREGNATION UNIT #3

Table No. - 4

Dry Bulb Wet Bulb Ambient Temp. 28.0°C On 11.08.2023 34.0°C

Ambient Air flow - 60 m/min S to N

| SL<br>No | Location                   | Parameter                           | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6                               | Volume of<br>Air<br>change/Hr | Velocity of<br>Air   | Dry/Wet<br>Temperat<br>work p | ture at               | Limit  | Reference<br>Method | Remarks            | Signature | Name                  |
|----------|----------------------------|-------------------------------------|---------------------------------|--------------------------------|--|-------------------------------|--|-------------------------------|-----------------------|--|---------------------|--------------------|-----------|-----------------------|
| 1.       | Inside<br>Work<br>Place    | Volume of<br>Air change             |                                 |                                | 9,853.56 m <sup>3</sup><br>x 6 =<br>59,121.36 m <sup>3</sup> | 90458.51<br>m <sup>3</sup>    | *:   | 5                             |                       | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place |                     | Adequate           | 02        | A<br>BHATT/<br>CHAKY/ |
| 2        | Inside<br>Work<br>Place    | Velocity of<br>Air at work<br>place | 11.08.2023<br>02:10 PM          | Annexure- I                    | 128  |                               | 36 m/min –<br>at Entrance<br>Gate<br>36 m/min –<br>at Middle<br>42 m/min – |                               |                       | 30 m/min at<br>work place at<br>1.5 M height           | Annexure-1          | Adequate  Adequate |           |                       |
|          |                            |                                     | to<br>03:40 PM                  |                                |  |                               | at Back side<br>Gate   |                               |                       |  |                     | Adequate           | 0         |                       |
| 3.       | Inside<br>Work<br>Place At | Temperature<br>at work              | U3;40 FM                        |                                | 2123   | (*)                           |  | Dry<br>Bulb<br>36.0°C         | Wet<br>Bulb<br>28.5°C | Wet Bulb<br>less than<br>30° C                         |                     | Adequate           | 'A        | CHATT<br>RAJ          |

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HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602

Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.,
Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: LWG #3

 Ambient Temperature
 Dry Bulb
 Wet Bulb

 On 09.08.2023
 33.0°C
 28.0°C

 Ambient Air flow – 72 m/min S to N

| SI.<br>No | Location                                | Parameter                       | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6   | Volume of<br>Air<br>change/Hr | Velocity of<br>Air  | Dry/Wei<br>Tempera<br>work p | ture at               | Limit  | Reference<br>Method | Remarks  | Signature | Name                 |
|-----------|---|---------------------------------|---------------------------------|--------------------------------|----------------------------------|-------------------------------|---|------------------------------|-----------------------|--|---------------------|----------|-----------|----------------------|
| L         | Inside<br>Work<br>Place                 | Volume of<br>Air change         |                                 |                                | 58176 m³ x 6<br>=<br>3,49,056 m³ | 1622256.81<br>m <sup>3</sup>  |   |                              |                       | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place |                     | Adequate | (12       | A.<br>BHATT<br>CHART |
|           | Inside                                  | Velocity of                     | 09.08.2023                      |                                |                                  |                               | 42 m/min –<br>at entrance<br>of I* Gate<br>36 m/min –             |                              |                       | 30 m/min at<br>work place at                           | Annewre-T           | Adequate |           | JOSAN S              |
| 2.        | Work<br>Place                           | Air at work<br>place            | 10:10 AM<br>to<br>11:35 AM      | Annexure- I                    |                                  |                               | at entrance<br>of 2 <sup>nd</sup> Gate<br>36 m/min -<br>at middle |                              |                       | 1.5 M height   | Annesure-1          | Adequate | 77        |                      |
| 3.        | Inside<br>Work<br>Place At<br>middle of | Temperature<br>at work<br>place | TAME OF                         |                                |                                  |                               | *   | Dry<br>Bulb<br>38.0°C        | Wet<br>Bulb<br>28.5°C | Wet Bulb<br>less than<br>30° C                         |                     | Adequate | 3         | S CHATT              |

For, INDICATIVE CONSTITUTION

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Table No. - 6

Table No. - 5

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HPL Link Road, Basudevpur, Khanjanchak; Haldia, PurbaMedinipur-721 602
Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD.,
Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: FINISHING # 1

| Ambient Temperature | Dry Bulb | Wet Bulb |
|---------------------|----------|----------|
| On 08.08.2023       | 32.0°C   | 28.0°C   |

| SI.<br>No | Location   | Parameter                           | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work<br>Place X 6                             | Volume of<br>Air<br>change/Hr | Velocity of<br>Air   | Temp.                 | et bulb<br>at work    | Limit  | Reference<br>Method | Remarks            | Signature | Name                           |
|-----------|--|-------------------------------------|---------------------------------|--------------------------------|--|-------------------------------|--|-----------------------|-----------------------|--|---------------------|--------------------|-----------|--------------------------------|
| 1.        | Inside<br>Work<br>Place                              | Volume of<br>Air change             | 10:35 AM<br>to<br>12:05 PM      |                                | 12522.4 m <sup>3</sup><br>× 6 =<br>75,134.4 m <sup>3</sup> | 162025.11<br>m³               | ~  |                       |                       | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place | Annexure-1          | Adequate           | 8         | BHATT<br>CHARY<br>S.<br>CHATT/ |
| 2.        | Inside<br>Work<br>Place                              | Velocity of<br>Air at work<br>place |                                 | Annexure-1                     | -  | •                             | 36 m/min-<br>at Gate<br>42 m/min-<br>at Middle<br>of the Plant |                       |                       | 30 m/min at<br>work place at<br>1.5 M height           |                     | Adequate  Adequate |           |                                |
| 3.        | Inside<br>Work<br>Place At<br>middle of<br>the plant | Temperature<br>at work<br>place     |                                 |                                | 1140   |                               | ty me rum  | Dry<br>Bulb<br>32.0°C | Wet<br>Bulb<br>28.5°C | Wet Bulb<br>loss than<br>30° C                         |                     | Adequate           |           |                                |

For, INDICATIVE CONSULTANT INDIA

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Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: FINISHING # 2

Ambient Temperature Dry Bulb Wet Bulb On 09.08,2023 36°C 30.0°C

Ambient Air flow - 54 m/min S to N

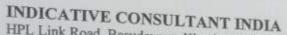
| SI.<br>No | Location   | Parameter                           | Date &<br>Time of<br>Monitoring          | Sampling<br>Instrumen<br>t Used | Volume of<br>Work Place<br>X 6                                    | Volume of<br>Air<br>change/Hr | Velocity of<br>Air  | Dry/Wet bulb<br>Temp. at work<br>place |                       | Limit  | Reference<br>Method | Remarks                      | Signature | Name                  |
|-----------|--|-------------------------------------|--|---------------------------------|---|-------------------------------|---|--|-----------------------|--|---------------------|------------------------------|-----------|-----------------------|
| L         | Inside<br>Work<br>Place                              | Volume of<br>Air change             | 09.08.2023<br>02:10 PM<br>to<br>03:30 PM |                                 | 24597.54 m <sup>3</sup><br>X 6 =<br>1,47,585.24<br>m <sup>3</sup> | 172036.87<br>m <sup>3</sup>   | *   |  | 5                     | Vol. of Air<br>change/hr<br>>6 x Vol. Of<br>work place |                     | Adequate                     | nd.       | A<br>BHATTA<br>CHARYA |
| 2.        | Inside<br>Work<br>Place                              | Velocity of<br>Air at work<br>place |  | Annexure- I                     | *   |                               | 36 m/min –<br>at entrance of<br>1" Gate<br>36 m/min –<br>at entrance of<br>2 <sup>nd</sup> Gate<br>48 m/min-<br>at the middle | *                                      |                       | 30 m/min at<br>work place at<br>1.5 M height           | Annexure- I         | Adequate  Adequate  Adequate | 100-      |                       |
| 3.        | Inside<br>Work<br>Place At<br>middle of<br>the plant | Temperature<br>at work<br>place     |  |                                 | ÷   |                               | 8   | Dry<br>Bulb                            | Wet<br>Bulb<br>27.5°C | Wes Bulb<br>less than<br>30° C                         |                     | Adequate                     | 8.        | S.<br>CHATTA<br>RAJ   |

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Table No. - 7



HPL Link Road, Basudevpur, Khanjanchak, Haldia, PurbaMedinipur-721 602

Register Containing Particulars of Testing of Ventilation Condition of M/s. GRAPHITE INDIA LTD., Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Name of Department/Plant: R.H. #24 (II)

Ambient Temperature Dry Bulb Wet Bulb On 10.08.2023 32.0°C 28.0°C Ambient Air flow - 48 m/min SE to NW

| SL<br>No | Location                                | Parameter                           | Date &<br>Time of<br>Monitoring | Sampling<br>Instrument<br>Used | Volume of<br>Work Place<br>X 6                                     | Volume of<br>Air<br>change/Hr | Velocity of<br>Air                        | Dry/Wet<br>Temperat<br>work pl | ure at                                       | Limit   | Reference<br>Method | Remarks  | Signature | Name                  |
|----------|---|-------------------------------------|---------------------------------|--------------------------------|--|-------------------------------|---|--------------------------------|--|---|---------------------|----------|-----------|-----------------------|
| 1.       | Inside<br>Work<br>Place                 | Volume of<br>Air change             |                                 |                                | 98,344.81 m <sup>3</sup><br>x 6 =<br>5,90,068.86<br>m <sup>3</sup> | 756527.47<br>m <sup>3</sup>   | 3   |                                |  | Vol. of Air<br>change for<br>>6 x Vol. Of<br>work place |                     | Adequate |           | A<br>SHATTA<br>CHARTA |
| 2.       |   |                                     |                                 |                                |  |                               | 36 m/min -<br>East Side of<br>the Furnace |                                |  | Adequate  |                     | 13       |           |                       |
|          |   |                                     | 10.08.2023                      |                                |  |                               | 42 m/min -<br>West Side of<br>the Furnace |                                |  |   |                     | Adequate |           |                       |
|          | Inside<br>Work<br>Place                 | Velocity of<br>Air at work<br>place |                                 | Annexure- I                    |  |                               | 36 m/min -<br>East Side of<br>the Shed    |                                | 30 m/min at<br>work place at<br>1.5 M height | Amoure-1  | Adequate            |          |           |                       |
|          | 2000                                    |                                     | 10:30 AM                        |                                |  |                               | 36 m/min –<br>West Side of<br>the Shed    |                                |  |   |                     | Adequate |           |                       |
|          |   |                                     | 12:25 PM                        |                                |  |                               | 42 mimin –<br>Middle of the<br>Shed       |                                |  |   |                     | Adequate | 0         | S<br>CHATTA           |
| 3.       | Inside<br>Work<br>Place At<br>middle of | Temperature<br>at work<br>place     |                                 |                                |  |                               | 1/2                                       | Bulb                           | lulb Bulb                                    | Wee Bulb<br>less than<br>30° C                          |                     | Adequate | 9         | RU                    |

P #/8

Table No. - 8

### ANNEXURE - 1

- 1. RAW MATERIAL Calcined Petroleum Coke (CPC), Binder Pitch, Extrusion Oil
- 2. PRODUCT Graphite Electrode & Nipple
- 3. BY-PRODUCT Graphite Fines

#### 4. METHOD OF ANALYSIS:

- Respirable Particulate Matter (RPM):
   Method of air sampling and analysis as per 15:5182(Part IV) 1999.(RA 2019)
- ii) Suspended Particulate Matter (SPM)
  Method of air sampling and analysis as per IS:5182(Part IV) 1999.(RA 2019)
- iii) Sulphur Dioxide (SO2): As per IS:5182 (Part II): 2001 (RA 2017)
- iv) Oxides of Nitrogen (NO2): As per 15:5182 (Part VI): 2006 (RA 2017)
- v) By Digital Lux Meter measurement was done as per IS:3646(Part 1): 1992 (RA 2018)
- vi) Code of practice for industrial ventilation as per IS 3103: 1975 (RA 2018)
- vii) Code of practice for natural ventilation of residential buildings as per 15 3362: 1977 (RA 2018)
- viii) Noise level measurement was done as per IS 4758:1968 (RA 2017)
- ix) Factories Act, 1948

#### 5. INSTRUMENTS USED:

The following standard instruments utilized during the entire survey period and all the instruments are calibrated.

- i) Respirable Dust Sampler with Gaseous Attachment
- ii) UV-Vis Double Beam Spectrophotometer.
- iii) Electronic Digital Balance
- iv) Hot Air Oven
- v) Desiccator
- vi) Digital Lux Meter
- vii) Digital Noise Level Meter
- viii) Hygrometer / Dry Bulb- Wet Bulb Temperature Indicator Meter
- ix) Digital Anemometer
- x) Measuring Tape



## **Monitoring Photographs**

Stack Monitoring









**Ambient Monitoring** 









Noise Monitoring







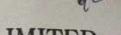


Water Monitoring











## GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST. - BURDWAN E-MAIL : general\_dgp@graphiteindla.com\*

To,
The Office of Environmental Engineer,
West Bengal Pollution Control Board,
Durgapur Regional Office,
Sahid Khudiram Sarani,
City Center,
Durgapur – 713216.



Sub: Submission of Bi-Annual compliance report on Stack, Ambient Air Monitoring, noise & Effluent sampling of GI (works).

Dear Sir,

Please find enclosed herewith, one set of the Bi-Annual compliance reports (as per the requirement of the consent to Operate) of Stack, Ambient Air & Noise Monitoring in August 2023. Since no waste water is discharged outside, Jul 2023 to Sep 2023 Effluent report is for the two combined outfall (i.e. LWG#4 & Old weigh Bridge) recycled untreated and treated water details and Extrusion#2 outfall treated details. Analysis is done by WBPCB Authorized agency M/s Indicative Consultant India, Kolkata & M/s Envirocheck, Kolkata. The summary statement of Stack & ambient emission also enclosed herewith.

Kindly acknowledge the same and oblige.

Thanking you,

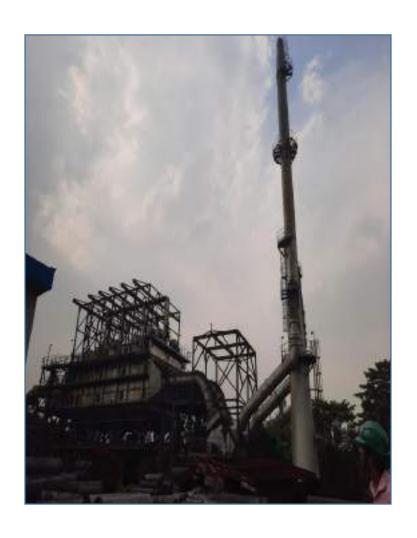
Yours Faithfully, For Graphite India Limited.

Ranadeep Chakraborty Vice President (Works)

0-17

## Annexure - 5

# Air Pollution Control System







Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal Phone :8670777399, 8670111899

E-mail: dgp\_purchase@graphiteindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

Tel No: 9332387185 PO No DOM/8600001972 Date 09 08 2023 Vendor 210263

Date PO Rev No MAKARNI INFRASTRUCTURE PVT. LTD.

Vendor's Ref Refer Text B-3, COLLINS PATH Refer Text BIDHAN NAGAR Our Ref Payment Terms Refer to Text

FOR GIL WORKS DURGAPUR DURGARUR 713919 West Rennal

| No Mat   | AGCM1128 GSTN No - 19AAGCM1128G1ZM Description   | UOM                                  | Otv B | Rate (INR) |
|----------|--|--------------------------------------|-------|------------|
| 1        | Rain Water Harvesting System   | AU                                   | 1     | 450,000.00 |
|          | HSN No/SAC Code - 9987   |                                      |       |            |
| Delivery | y Schedule   |                                      |       |            |
|          | Total Quantity by 39.09.2023   |                                      |       |            |
| The Iter | n covers the following services  |                                      |       |            |
|          | Towards the Charges for Earthwork in   | M3                                   | 10    | 170.00     |
|          | excavation of foundations trenches a<br>drains, in all sorts of soil (inclus<br>mixed soil but excluding laterite or<br>sandstone) including removing,<br>spreading or stacking the spoils wit<br>a lead of 75 m. as directed. The its<br>includes necessary trimming the side<br>of trenches, levelling, dressing and<br>ramming the bottom, bailing out water<br>as required complete. | ding<br>Thin<br>Thin<br>Thin<br>Thin |       |            |
|          | Towards the Charges for Earthwork in   | M3                                   | 5     | 80.00      |
|          | filling in foundation trenches or plinth with good earth, in layers no exceeding 150 mm. including watering and ramming etc. layer by layer complete. (payment to be made on the basis of weasurement of finished quantity of work.)   | nt.                                  |       |            |
|          | <ul> <li>With earth obtained from excavation of foundation.</li> </ul>   | 10                                   |       |            |
|          | Towards the Charges for Removal of   | M3                                   | 5     | 160.00     |
|          | Rubbish, etc. from the working site disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for su disposal, loading into truck and cleaning the site in all respect as direction of Engineer-in-Charge.  | iah                                  |       |            |
|          | Towards the Charges for Back filling   | in M3                                | 5     | 1,000.00   |
| 4        | foundation trenches or plinth, in<br>layers not exceeding 150 mm. includi<br>watering and ramming etc. layer by<br>layer complete, (payment to be made   |                                      |       |            |

REGISTERED & H.O. 31 CHOWRING HEE ROAD, KOLKATA-700016 CIN: L10101W81874PLC094602 Telephone No.: +91-33-40029600 FAX: +91-33-40029676

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E-mail: dgp\_purchase@graphiteindia.com Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No R |        | DOM/8600001972   | Date<br>Date   | 09 08 202       | 3     |            |
|---------|--------|--|--|-----------------|-------|------------|
| Sr No   | Mat No | Des  | cription   | UOM             | Qty F | late (INR) |
|         |        | quantity of work.) - Filling by Filli Towards the Charge   | rement of finished<br>ng Band.<br>a for aupply & Lay.<br>in bottom of P.C.   | -5-7 (III)      | 45    | 45.00      |
|         |        | R.C.C.<br>Towards the Charge   | s for Cement Concre<br>ballast (40mm size)   | ete M3          | 5     | 4,900.00   |
|         |        | Towards the Charge<br>Concrete of M25 Gr<br>stone chips of 20m<br>containing designs<br>per CB .m of wet o<br>computerised batch<br>controlled conditi<br>super plastisizer  | ade with well grack<br>m & 10mm nominal si<br>d quantity of comes<br>oncrete produced in<br>ing plant under<br>on using approved<br>designing concrete   | izo<br>nt       | 15    | 5,200.00   |
|         |        | mix following I.8 Towards the Charge charges for shutte and necessary stag using approved sto hard wood planks o with required brac slabs, beams and o curved or straight fixing and strikin completion of work or 9 to 12 mm thic ply board shutterly                   | s for Nire and Labe<br>ring with centering<br>ing ( where require<br>ut props and thick<br>f approved thickness<br>ing for concrete<br>plumns ,lintels<br>locluding fitting,<br>g out after<br>s (Steel shuttering<br>k approved quality                     | 7<br>9d)<br>95  | 45    | 380.00     |
| d B.    | 2      | work). Towards the Charge for reinforced con- sorts of structure, distribution bars - etc. initial strain of loose rust (if a to requisite length hending to correct proper position and shape, placing in a binding with 16 gas wire at every inter per drawing and dis | s for Reinforcement<br>crete work in all<br>s including<br>stirrups, binders<br>phtening and remova<br>necessary), cutting<br>h, hooking and<br>shape, placing in<br>d binding to correct<br>proper position and<br>uge black annealed<br>reaction, complete | r 3<br>7<br>9 E | 0.830 | 11,000.00  |
| 200     |        | For works in four  | idation and basemen  | t O             |       | 0          |

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Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No<br>PO No |        | DOM/8600001972   | Date<br>Date   | 09.08.20 | 23        |            |
|----------------|--------|--|--|----------|-----------|------------|
| Sr No          | Mat No | Desc   | ription  | MOU      | Qty       | Rate (INR) |
|                |        | - Tox steel / Mild   | stee!  |          |           |            |
|                |        | Towards the Charges<br>existing constructi   |  | Н3       | 5         | 1,800.00   |
|                |        | cubbiek & alean the  |  |          |           |            |
|                |        | - For 800 with rod   | cutcing a repoxal.   |          | 000000000 |            |
|                |        | Towards the Charges  |  | M        | 100.000   | 790.00     |
|                |        | fitting & Fixing Ph<br>fittings conforming<br>with all necessary<br>including making ho<br>etg. cutting trench   | n to IS:13592-1992<br>clamps nails,<br>des in walls, floor   |          |           |            |
|                |        | through masonry con<br>etc. if necessary a<br>damages including j<br>materials at every<br>joint with Cap For<br>provided & required   | nd mending good<br>claing with jointin<br>2.0 to 3.0 mtr. "T'<br>cleaning to be  |          |           |            |
|                |        | - 150 å PVC pipe.  |  |          |           |            |
|                |        | Towards the Charges  |  | 34       | 25.000    | 210.16     |
|                |        | fixing UPVC pipes f<br>Hot water supply, o<br>ASTM-D-2846 grade S<br>all type of fitting<br>sockets, elbows, be  | onforming to<br>DR 13.5 including<br>a such as tees,   | id       |           |            |
|                |        | reducers, sleeve pi<br>solvent cement solu<br>d-2564 for cold fus<br>plastic clamps as r<br>manufacturer includ<br>cutting on brick-wa<br>repairing the same<br>(1:2:4) and mortar   | tion as per ASTM ion, fixed with equired /spec. of ling chase / hole ii / RCC wall s with cement concret                         |          |           |            |
|                | 2      | - 25 mm Dia.   |  | 1 4      |           |            |
|                |        | Towards the Charges  | For Fitting and  | M        | 50.000    | 150.00     |
| 0              |        | fixing UPVC pipes f<br>Hot water supply, c<br>ASTM-D-2846 grade S<br>all type of fitting<br>sockets, elbows, be<br>reducers, sleeve pi<br>solvent cement solu<br>d-2564 for cold fus | or internal Cold an<br>onforming to<br>DR 13.5 including<br>a such as tees,<br>nds, unions,<br>pes etc. With<br>tion as per ASTM | d        |           |            |
| 0 00           | D 0    | plastic clamps as r  | equired /spec. of  |          |           |            |
| no             | 0      | manufacturer includ  |  |          |           |            |

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E-mail : dgp\_purchase@graphileindia.com Websile : www.graphileindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No F | Rev                | DOM/8600001972  |   | Date<br>Date  | 09.08      | 2023            |               |
|---------|--------------------|---|---|---|------------|-----------------|---------------|
| SrNo    | Mat No             |   | Descript  | tion  | UOM        | Qty             | Rate (INR)    |
|         |                    | cutting on hi<br>repairing the<br>(1:2:4) and n   | same wl   | th cement cor   | orete      |                 |               |
|         |                    | - 20 mm Dis.<br>Towards the G<br>& Fixing Pump<br>per requireme                                   | with sec  | cospary fitti   |            | e 000           | 4,656.00      |
|         |                    | - 1 HP Pump ( Towards the O A fixing of 5 Approved make fitting 4 Fix                             | harges fo<br>1000 Ltr.<br>: includi:            | or Supply, Pi<br>PVC water to<br>ng necessary                 | ink of     | 6               | 25,720.00     |
|         |                    | etc. Towards the C Supplying, fi end Ball Valv piece (if nec materials etc                        | tting and<br>e includ:<br>essary) a             | i fixing Thre<br>ing extension<br>and jointing                | eaded      | 6,000           | 35.00         |
|         |                    | - 25 mm Dia.<br>Towards the C<br>Supplying, fi<br>end Ball Valv<br>piece (if neo<br>materials etc | tting and<br>e includi<br>essary) a             | fixing Thre<br>ing extension<br>and jointing                  | aded .     | 6.000           | 30.00         |
|         | 2                  | - 20 mm Dia. Towards the C column base w the type Sika 200 / Shrinko manufacturer' approved by t  | ith non-s<br>grout 214<br>omp or e<br>s recomme | shrink grout<br>  (ES) / Ceb<br> quivalent as<br> endation as | of<br>ex   | 1               | 28,000.00     |
|         |                    |   |   | THOUSAND Rupe   | es ONLY    | Total Value :   | 450,000.00    |
| (10)    | 1 12 0             | 22  |   |   |            |                 | ^             |
|         | her Item<br>It No. | Charges<br>Discount   | CGST  | SGST/UTGST  | IGST       | Tax             | Text          |
| 2,500   | CT-17516           |   | 9,00 %  | 9.00 %  | 1200661F10 | (GST Tax Credit | (9% SGST & 9% |

Terms and Condition

REGISTERED 8-H 3:31 CHOWRINGHEE ROAD, KOLKATA-700018 CIN : L10101WB1974PLC094602 Telephone No. : +91-33-40029600 FAX : +91-33-40029676

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Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No     | DOM/8600001972 | Date | 09.08.2023 |  |
|-----------|----------------|------|------------|--|
| PO No Rev |                | Date |            |  |

### Delivery Instructions

1. The above Services are required for Civil Work Including providing of Rainwater Harvesting System to be installed at Canteen & Lab. Building inside our Plant Premises.

For G.I.L.'s internal reference only - W.B.S. No. DGP-0009-RH-CW-05.

Entire job shall be completed within stipulated time including mobilization period as mentioned in the front page of this Purchase Order.

This shall be essence of contract. You shall strictly adhere to be delivery / work completion period agreed / committed. Further, our requirement being related to project expansion work, it is critical in nature. If required by G.I.L., you shall try your level best to prepone delivery / work completion period to the maximum extent.

### Payment Instructions

100% of basic value of job done quantity with applicable 100% GST amount as per prevailing rates shall be released within 07 days after successful job completion and against submission Bill duly certified by GIL.

#### Notes:

- a. Statutory deductions, if any, shall be deducted by G.I.L. during execution of the work.
- The final payment shall be paid to you provided you have fulfilled all the obligations of rectifying defects, if any, during defect of liability period. If defects are not rectified by you in a reasonable time, G.I.L. will at their discretion to get the job done from any other contractor / s & the cost will be adjusted from your payable amount.
- c. Full & final settlement of the bill will be made only after the complete removal of man & machine from the nite
- d. Reconciliation statement for free issue materials shall be submitted by vendor along with final bill, without which G.I.L. will not accept the final bill & will not release any further payment against this Purchase Order.

#### General Instructions

- 1. PLEASE ACKNOWLEDGE RECEIPT OF THIS ORDER, SIGNIFYING YOUR ACCEPTANCE OF TERMS AND CONDITIONS HEREOF.
- REFERENCE: YOUR INITIAL OFFER NO. E-MAIL DATED 14.07.2023. SUBSEQUENT DISCUSSION. NEGOTIATION ETC. HAD WITH YOU TIME TO TIME INCLUDING 08.08.2023 AND YOUR FINAL PRICE BIFLIRCATION E-MAIL DATED 09:08:2023.
- 3. PRICE VARIATION CLAUSE: NO PRICE VARIATION SHALL BE ACCEPTABLE TILL COMPLETION OF NOMINATED JOB.
- 4. CONTRACTOR'S SCOPE OF SUPPLY / WORK

A. EXCAVATION TOOLS & TACKLES, LOADING EQUIPMENT, TRACTOR TO TRANSPORT THE EXCAVATED EARTH BEYOND THE PLANT PREMISES, GRADED STONE / BALLAST (40 MM SIZE & 20 MM NOMINAL SIZE). GOOD QUALITY SAND, SHUTTERING MATERIALS, GOOD QUALITY POLYTHENE SHEETS, MIXURE M/C., PVC PIPES OF "A" TYPE, uPVC PIPES, 01HP PUMP, 5000 LTR.

> REGISTERED & H'Q :37 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602

Telephone No.: +91-33-40029600 FAX: +91-33-40029676 E-mail ld : gifro@graphiteindia.com

Website: www.graphiteindia.com

GID-MTL-F008 R6 w.e.f. 16.05.2022



### **GRAPHITE INDIA LTD.**

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal

Phone:8670777399, 8670111899

E-mail: dgp\_purchase@graphiteindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| PO No     | DOM/8600001972 | Date | 09.08.2023 |
|-----------|----------------|------|------------|
| PO No Rev |                | Date |            |
|           |                |      |            |

CAPACITY, THREADED BALL VALVES, SIKAGRUOT 214 (ES) / CEBEX 200 / SHRINKGROUP OR EQUIVALENT, CONSUMABLES SUCH AS APPROVED QUALITY ELECTRODES (MAKE, ESAB / ADVANI / L&T ETC.), GAS AND HIRE CHARGE OF ALL TOOLS AND PLANTS AND LABOUR, ARC WELDING M/C, WIRE BRUSH, CUTTING M/C & WHEEL, DE-WATERING PUMP, OTHER REQUIRED TOOLS AND TACKLES LIKE HYDRA, CRANE ETC.

B. ESIC. PF OF THE LABOURS AND PUC NORMS FOR VEHICLE, EQUIPMENT ETC.

C. IF ANY SOIL GETS SPILLED OVER ON OUR MAIN ROAD/ ANY OTHER PLACE IN PLANT PREMISES, DURING TRANSPORTATION OF EXCAVATED SOIL, IT IS M/S AC'S DUTY TO REMOVE THE SAME IMMEDIATELY BY CLOSING OF THE SAME DAY, FAILING WHICH, VEHICLES WILL NOT BE ALLOWED NEXT DAY.

D. WATER CURING IS MOST VITAL ACTIVITY WHICH ALLOWS THE CONCRETE TO GAIN THE STRENGTH & HENCE YOU SHOULD DO THE SAME METICULOUSLY AFTER INTERVAL OF 3-4 HOURS, G.I.L. WILL MONITOR THE SAME & IF FOUND MISSING, PENALTY OF RS, 1,000/- WILL BE DEDUCTED EACH TIME FROM YOUR RA BILL.

E. DE-WATERING OF SUB-SOIL WATER, IF AT ALL REQUIRED, SHALL BE ARRANGED BY YOU

5. G.I.L.S SCOPE OF SUPPLY:

A ONE ELECTRICAL POINT SHALL BE PROVIDED BY G.I.L. FURTHER, YOUR TEAM SHOULD USE NEARBY DRINKING WATER POINTS AS SUGGESTED BY US OUT OF EXISTING AVAILABLE POINTS. AS FELT SUITABLE BY US, LAMPS SHALL BE PROVIDED BY US TO ENABLE YOU TO WORK DURING NIGHT TIMES. ALL THESE FACILITIES SHALL BE PROVIDED TO YOU AT FREE OF COST.

- B. REQUIRED REINFORCEMENT STEEL & CEMENT.
- 6. STATUTORY REQUIREMENTS:

A ALL STATUTORY FORMALITIES SUCH AS ESIC, PF ETC. SHALL BE COMPLETED BY YOU TO EXECUTE THE WORK IN OUR WORKS FOR YOUR WORKERS / LABORS/ STAFF & COMPLIANCE SHALL BE MADE AS PER STATUTORY RULES & ACT AS APPLICABLE & ALL SHALL BE AT YOUR COST (I.E. NO EXTRA COST TO G.I.L.).

B. STATUTORY DEDUCTIONS, IF ANY, SHALL BE TO YOUR ACCOUNT & WILL BE DEDUCTED BY G.L. DURING EXECUTION OF THE WORK.

C. YOU WILL TAKE ALL SAFETY PRECAUTIONS AS PER LATEST RELEVANT FACTORY ACT, RULES ETC. AND IT WILL BE TAKEN GRANTED THAT YOU SHALL INDEMNIFIED M/s. G.I.L. FROM ANY LIABILITIES ARISING OUT OF NON COMPLIANCE OF ANY STATUTORY PROVISIONS & FROM ANY MISHAP & / OR ACCIDENT WHILE WORKING AT THE SITE, IF UNFORTUNATELY OCCURRED YOU SHALL BE TOTALLY RESPONSIBLE FOR THE CONSEQUENCES & LIABILITIES ARISING IN CASE OF ANY MISHAP OCCURRING TO YOUR EMPLOYEES, YOUR SUB-CONTRACTOR'S EMPLOYEES WHILE WORKING IN M/s. G.I.L.'S PLANT INCLUDING LIABILITIES ARISING TO M/s. G.I.L. IN THIS RESPECT.

7. GST: GST SHALL BE PAID EXTRA AS APPLICABLE AT THE TIME OF DISPATCH OF MATERIALS.

REGISTERED & H.O.:31 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602

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GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

Date 09.08.2023 PO No DOM/8600001972 Date PO No Rev

HOWEVER, PRESENT APPLICABLE STATUS IS GIVEN BELOW:

- GST - EXTRA @18%

GST % MENTIONED IN THE P.O. IS BASED ON "PRESENT APPLICABLE RATES". HOWEVER, THE SAME SHALL BE PAYABLE AT ACTUAL RATES "AS APPLICABLE" AT THE TIME OF DISPATCH OF MATERIAL SUBJECT TO SUBMISSION OF DOCUMENTARY EVIDENCES, IF REQUIRED AND APPLICABLE, FURTHER, THIS SHALL BE CONSIDERED ONLY IF CONTRACTUAL DELIVERY / WORK COMPLETION PERIOD IS MENTIONED.

ANY CLAIM / EXTRA CLAIM ON ACCOUNT GST OF WHATSOEVER NATURE SHALL NOT BE ENTERTAINED BY G.I.L. FOR WHATSOEVER REASONS AFTER DISPATCH OF THE MATERIAL AS WELL AS IN CASE CONTRACTUAL DELIVERY / WORK COMPLETION PERIOD IS NOT MAINTAINED BY YOU.

8. TOTAL VALUE OF WORK, CERTIFICATION OF BILLS, PRICES VARIATION CLAUSE ETC.:

THE QUANTITIES ARE BASED ON ESTIMATED QUANTITIES AND BILLING / S AS WELL AS PAYMENT / S SHALL BE MADE BASED ON THE ACTUAL WORK DONE JOINTLY MEASURED AND FINALLY TO BE CERTIFIED BY G.I.L. AS WELL AS BY G.I.L.'S AUTHORIZED CONSULTANT. ANY EXTRA JOB / S WHICH IS / ARE NOT COVERED UNDER NOMINATED JOBS, THE UNIT RATE FOR THE SAME SHALL BE MUTUALLY DECIDED BASED ON AGREED RATES FOR SIMILAR TYPE OF JOB IS OR ITEMS AND LOR ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY G.I.L. HOWEVER, THERE IS NO BINDING TO G.I.L., THROUGH THIS P.O. THAT IF THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY; THE REPEAT WORKS WILL BE GIVEN TO THE CONTRACTOR. HENCE, ONCE THE QUANTITY EXCEEDS OR ANY EXTRA JOB / S IS / ARE TO BE DONE DURING EXECUTION OF THE NOMINATED JOB, CONTRACTOR SHOULD IMMEDIATELY INFORM TO G.I.L. FOR FURTHER COURSE OF ACTION.

9. QUANTITY & TOTAL VALUE VARIATION:

SINCE THE QUANTITIES ARE ESTIMATED. VARIATION IN QUANTITY & / OR TOTAL ESTIMATED VALUE, IF ANY, G.I.L. WILL AMEND THIS PURCHASE ORDER OR WILL ISSUE A SEPARATE PURCHASE ORDER AS FELT SUITABLE AS PER AGREED UNIT RATES MENTIONED ABOVE.

IF THE SAME ARE NOT COVERED ABOVE THE SAME SHALL BE MUTUALLY DECIDED BASED ON AGREED RATES FOR SIMILAR TYPE OF JOB / S OR ITEMS AND / OR ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY G.I.L. HOWEVER, THERE IS NO BINDING TO G.I.L., THROUGH THIS PURCHASE ORDER THAT IF THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY. THE REPEAT WORKS WILL BE GIVEN TO THE VENDOR. HENCE, ONCE THE QUANTITY EXCEEDS VENDOR SHOULD IMMEDIATELY INFORM TO G.I.L. FOR FURTHER COURSE OF ACTION.

10. A JOB WARRANTY CERTIFICATE AGAINT SUPPLY OF ANY BAD QUALITY MATERIALS (CONTRACTOR'S SCOPE OF SUPPLY) OR ANY TYPE OF BAD WORKMANSHIP, SHALL BE PROVIDED VALID AT LEAST FOR 06 MONTHS FROM THE OF SUCCESSFUL JOB COMPLETION DULY CERTIFIED BY GIL

REGISTERED & H.O.: 31 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602

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Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

PO No DOM/8600001972 Date 09.08.2023 Date

11. NOTES: JOB UNDER SERVICE / SUB-CONTRACT:

# PLEASE MAKE SURE THAT YOUR PERSONNEL WHO WILL BE COMING FOR THE JOB ARE
COVERED UNDER P.F., ESI / MEDI-CLAIM / INSURANCE.

# PERSONNEL, WHO WILL BE WORKING, MUST HAVE ADEQUATE SAFETY PROTECTION LIKE
HELMET, GOGGLES / SPECTACLES, FACE MUSK, ETC, AS APPLICABLE FOR THE TYPE OF JOB.

# FOR HANDLING HAZARDOUS MATERIAL YOU MUST HAVE HAZARDOUS MATERIAL HANDLING
CERTIFICATE FROM CONCERNED STATUTORY AUTHORITY

# VENDOR TO GET THE SITE CLEARANCE CERTIFIED BY DH (BILLS ALSO TO BE CERTIFIED BY DH
MENTIONING SITE CLEARED).

# ANY ENVIRONMENTAL DAMAGE OCCURRING DUE TO THE SERVICES PROVIDED BY THE

# ANY ENVIRONMENTAL DAMAGE OCCURRING DUE TO THE SERVICES PROVIDED BY THE VENDOR WILL BE PENALIZED AS DEEMED FIT BY THE ORGANIZATION. (CONCERNED DH TO CERTIFY IN BILLS).

12. IMPORTANT NOTES:

A. ALL INCOMING VEHICLES SHOULD HAVE VALID PUC (POLLUTION UNDER CONTROL) AS PER MOTOR VEHICLES ACT.

B. ALL INCOMING VEHICLES SHOULD HAVE REGISTRATION & INSURANCE CERTIFICATES.
C. THE DRIVERS OF ALL INCOMING VEHICLES SHOULD POSSESS VALID DRIVING LICENCE.

D. ALL INCOMING PLASTIC PACKING SHOULD BE MORE THAN 40 MICRON.

E. ALL INCOMING TANKERS CARRYING HAZARDOUS LIQUID SHOULD HAVE TERM CARD WITH THE DRIVERS.

F. SUPPLIERS OF ALL TYPES OF BATTERIES MUST BUYBACK / TAKE BACK OLD / USED / REJECTED BATTERIES.

G. MSDS (MATERIAL SAFETY DATA SHEET) CERTIFICATE TO BE SUPPLIED WITH ALL NEW (FIRST TIME) SUPPLY OF CHEMICAL, LUBRICANTS OR HAZARDOUS MATERIAL.

13. INWARD DELIVERY / ENTRY OF MATERIALS: PASSAGE OR ENTRY ALL SUCH MATERIALS AS ALSO OTHER MATERIALS REQUIRED IN CONNECTION WITH PROPER EXECUTION OF THE JOB, INTO OUR PLANT PREMISES, SHALL DULY FOLLOW STANDARD INWARD DELIVERY PROCEDURE INCLUDING SUBMISSION OF LIST OF MATERIALS ON COMPANY LETTER-HEAD / CHALLANS, AUTHORIZED BY PROJECT DEPARTMENT PERSONNEL AND GATE ENTERED WITH SERIAL NUMBER, DATE AND SIGNATURE OF SECURITY PERSONNEL.

CLEAR DISTINCTION SHALL BE MADE BETWEEN RETURNABLE AND NON-RETURNABLE CLASS OF MATERIALS AND SEPARATE CHALLANS CONTAINING ALL DETAILS OF MATERIALS LIKE MAKE / BRAND, DESCRIPTION AND QUANTITY SHALL BE MADE OUT FOR DIFFERENT CATEGORIES.

ONLY THOSE MATERIALS WHICH ARE ENTERED AS RETURNABLE HAVING A VALID GATE-STAMPED DELIVERY CHALLAN, SHALL BE ALLOWED TO TAKEN-OUT OF PLANT PREMISES, THAT TOO ONLY AFTER THE COMPLETION OF JOB.

14. REGISTERED OFFICE DETAILS:
M/s. GRAPHITE INDIA LIMITED,
31, CHOWRINGHEE ROAD, KOLKATA 700 016
CIN: L10101WB1974PLC094602
TELEPHONE NO. 91 33 40029600: FAX NO: 91 33 40029676

Hart reary

REGISTERED & H.O.: 31 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101W91974PLC094602 Telephone No.: +91-33-40029600 FAX: +91-33-40029676

E-mail Id : gitro@graphiteindia.com Website : www.graphiteindia.com

GID-MTL-F008 R6 w.e.f. 16.05.2022



### **GRAPHITE INDIA LTD.**

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal

Phone :8670777399, 8670111899

E-mail: dgp\_purchase@graphiteindia.com

Website: www.graphiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

PO No DOM/8600001972 Date 09.08.2023
PO No Rev Date

EMAIL ID: GILRO@GRAPHITEINDIA.COM WEBSITE: WWW.GRAPHITEINDIA.COM

15. OUR WORKS ADDRESS & GST DETAILS: WORKS: M/s. GRAPHITE INDIA LIMITED, SAGARBHANGA COLONY, DURGAPUR: 713211.

DIST: BURDWAN

GST NO.: 19AAACC0457C1Z4.

16. JURISDICTION: ANY DISPUTE RELATING OF THIS PURCHASE ORDER SHALL BE DEEMED TO HAVE ARISEN IN THE LOCAL / STATE OF PLANT AND SUBJECT TO ADJUDICATION BY COURTS HAVING JURISDICTION OVER THE LOCATION OF UNIT. IN CASE, THE PURCHASE ORDER IS ISSUED FROM KOLKATA, THEN IN THAT EVENT THE COURTS IN KOLKATA, WEST BENGAL WOULD HAVE JURISDICTION.

17. FORCE MAJEURE CLAUSE: THIS WILL BE CONSIDERED AND APPLICABLE MAINLY IN THE CASE OF NATURAL CALAMITIES SUCH AS EARTHQUAKES, STORM AND FLOOD AND DECLARATION OF WAR BY OR AGAINST OUR COUNTRY. HOWEVER, IN GENERAL, NORMS / GUIDELINES GIVEN BY INTERNATIONAL CHAMBER OF COMMERCE.

YOU SHALL FOLLOW THE ONGOING COVID PROTOCAL AND ABIDE BY THE RULES AND REGULATIONS IN VOUGUE.

Due to introduction of GST, the contract price shall be adjusted to take account of any increase or decrease in cost. Further, the Supplier/ Service Provider agrees to comply with all applicable GST laws, including GST acts, rules, regulations, procedures, circulars & instructions thereunder applicable in India from time to time and to ensure that such compliance is done within the time prescribed under such laws. Supplier/Service Provider should ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTN.

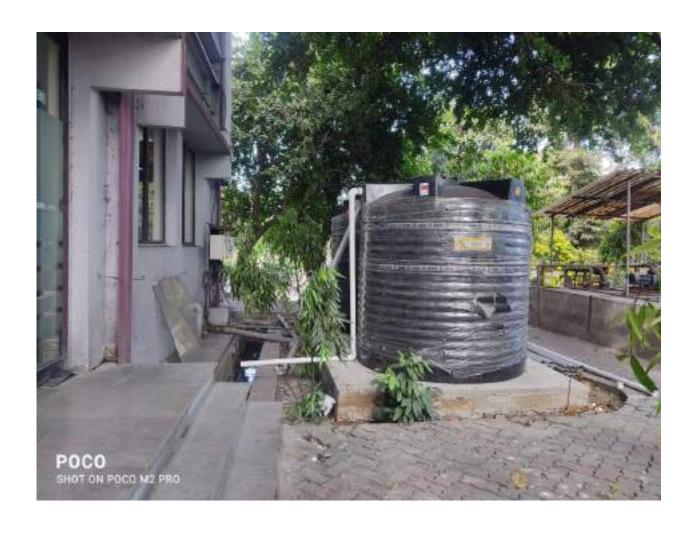
TDS will be deducted as per section 194 Q of income Tax Act - Effective from 01.07.2021 wherever applicable

16/08/08/23 July 18/8

REGISTERED & H.O.: 31 CHOWRINGHEE ROAD, KOLKATA-700016 CIN: L10101WB1974PLC094602

Telephone No.: +91-33-40029600 FAX: +91-33-40029676
E-mail Id: giiro@graphiteindia.com Website: www.graphiteindia.com

# **Existing Rain Water Harvesting Tank**



# Greenbelt













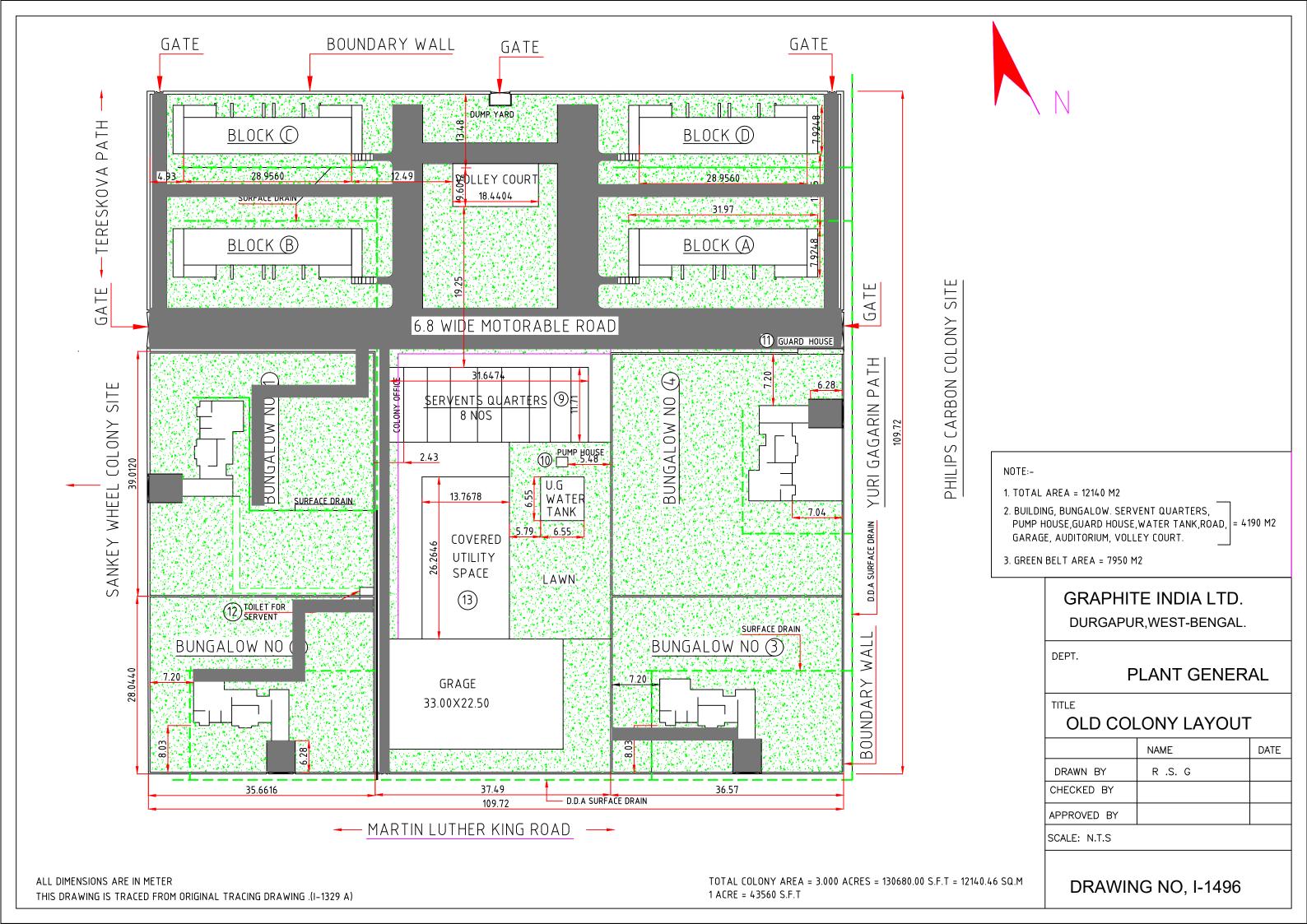


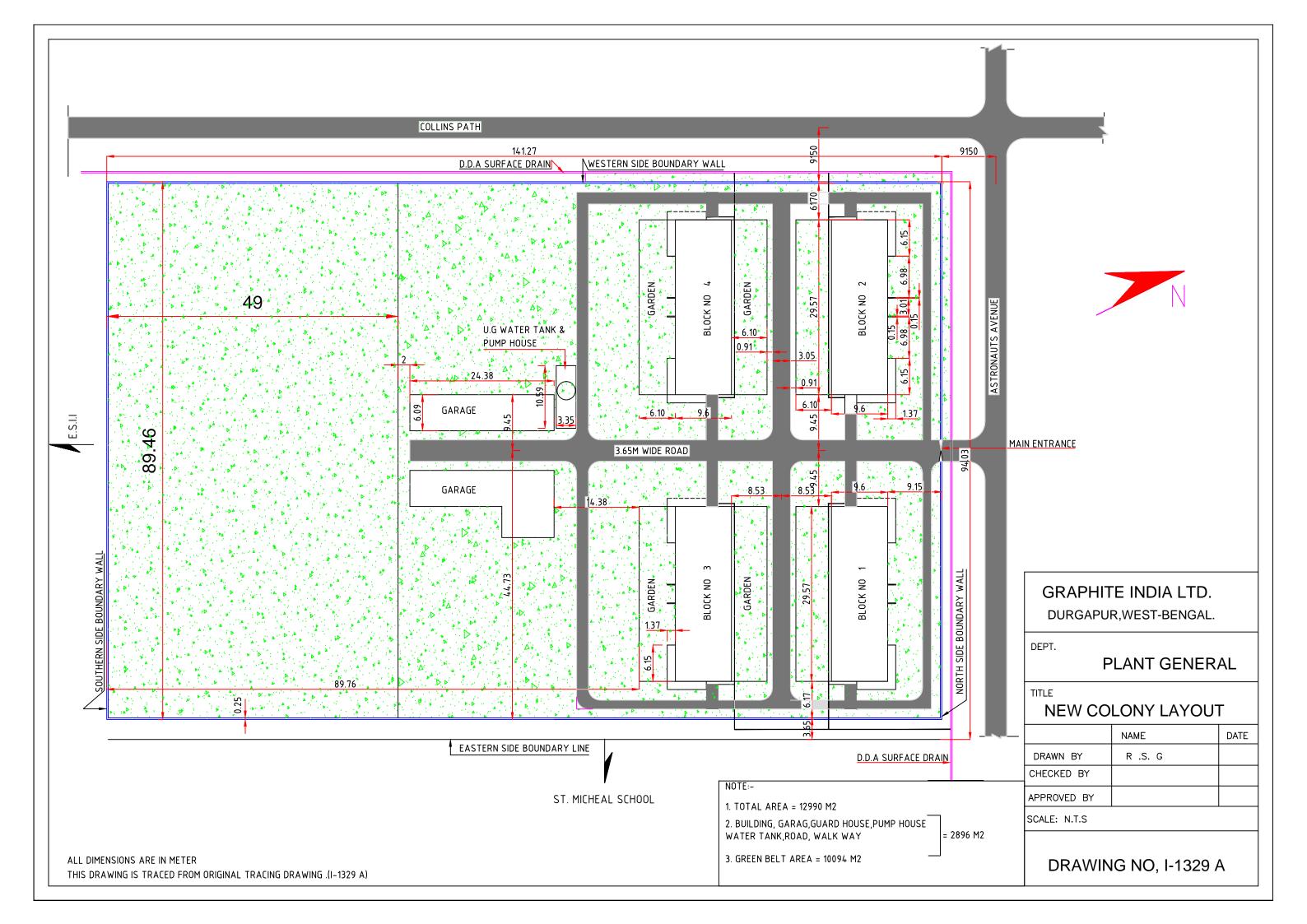












# JULY 23

### GRAPHITE INDIA

DAILY PATIENT

| St No.         | Date    | Name of the Patient          | Dept        | Desig. |       | I.No. |
|----------------|---------|------------------------------|-------------|--------|-------|-------|
| _ 1.           | 01.7.23 | Mr. Stathe Makely            | Complete.   |        | 1/2   | A     |
| _2             | +       | Ple Philip Reservant Library | 112241700   |        | -     | -     |
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| t <sub>p</sub> | 60      | SK. Antoni                   | Compliant 1 |        | -     | -     |
| _ 5.           | 11      | Mr. Dorn Parari              | t-1/4       |        | -     |       |
| 6.             | D.      | Mr. Ta. Thigh                | pool.       |        | -     | -     |
| 7.             | to.     | Mr. Dines Bre Roi            | File        |        | -     | -     |
| 0              |         | Mr. Cham protein             | cope        |        |       |       |
| - 9            | h       | EK Boutest                   | Falt.       |        | -     | 24    |
| 10             | 3.      | Mr. Klausony Dlike           | charge      |        | -     | -     |
| 11             | -       | SK Anird H                   | Complete    |        |       | -     |
| 12             | 36      | Mrshill Ry                   | Builting    |        | -     | -     |
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| 14             | 12      | Baningahal Raides            | Coall       |        | 7     | -     |
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| 16             | 1000    | * Sourad Kimpat              | But         |        | -     | -     |
| 11             | *       | · Suxanda Glas               | Done        | - 10   | -     | =     |
| 18             | *       | - Shyurmal Gelvish           | Frank       |        | -     |       |
| 19             | 10      | SK Anyoda)                   | Guile       |        | -     |       |
| 20             | - 1     | U. K Barrel                  | 49.47       |        | -     | 150   |
| 21             | W 3     | Gossel Penjamania            | PIL         |        | 9/2   | -     |
| 22             | 10      | Love Berper                  | Aglin       |        | -     |       |
| 22 23          | 4.1     | a Robbita Banis              | Shop        | 4      | -     | -     |
| 25             | 1911    | , SK Maxim                   | EXT         | -      |       | -     |
| 25             |         | M. de Heren                  | Fre         |        | 22. 1 | -     |
| 26             | 的称      | A Prakere Danie              | Credit      |        | 4     | 19    |
| 27             | 1-      | 4 Perber Chand               | Contain     |        |       |       |
| 27<br>28<br>29 | to.     | - Sk trukut                  | Balon       | _      | -     |       |
| 29             | 100     | - Chaffe Makets              | Confish     |        | ū     | B     |
| 30             | 4       | h Partha Inches              | Entel.      |        | 26    | D     |
| 21             | ,       | M. Schill Street             | this        |        | . +   | -     |
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| 33             |         | . NOODHEN KATUR              | Boury       |        |       |       |
| 1              |         | · Membershay BONDALE         | tent        |        | -     | -     |

LIMITED, Durgapur-11 ENDANCE REGISTER

Annexure TRG 823

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# AUGUST'23

### **GRAPHITE INDIA**

HEALTH

DAILY PATIENT

| St. No. | Date   | Name of the Patient               | Dept.        | Desig.        | E.8  | No.   |
|---------|--------|-----------------------------------|--------------|---------------|--|-------|
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| 5       |        | - Morris charlings                | Mary         |               |  | -14   |
| 6       | *1     | Brewson to Longar - 100 po        | contact      | (-free-sealth | Oryh /   | JH.   |
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| 11      | -      | " Zakir Hassim                    | Devent       |               | -  |       |
| 11      |        | + DUNCH F                         | 9            | 15000         | -  | 144   |
| 13      |        | a Addin Grand                     | Burn         | Lille         | -  | -4    |
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| 18      | 10     | . Children Down                   | rect         | STATE OF      | Ne l   | 0     |
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| 24      | 2/8/63 | Im Chanden Kir Rogale             | Balin        | Const         | 90   | A     |
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| 24      | 11     | - Street Galley                   | Plt          |               | -  |       |
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# LIMITED, Durgapur-11 / FIRST AID CENTRE ATTENDANCE REGISTER

GID-TRG-F023 BO WEF 2002, 2014

| ATTENDANCE REGISTER                         | BUT-BUT 2010 2014 |
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# **Training Photographs**





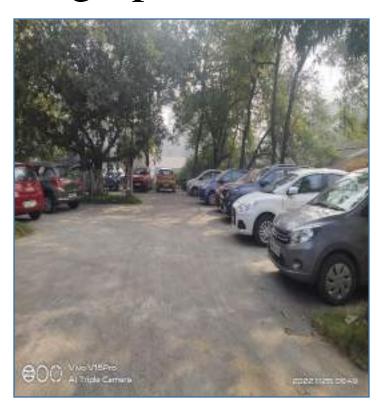




## Annexure - 9

# Parking Photographs









Annexure - 10 Insurance

Friday, November 17, 2023 2:12:19



User 74000071990000910 Login:

| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | Apr-2023                           |                   |
| Challan Number :       | 07423117082762                     |                   |
| Challan Created Date   | 13-05-2023 10:02:13                |                   |
| Challan Submitted Date | 13-05-2023 10:03:48                |                   |
| Amount Paid:           | 5864.00                            |                   |
| Transaction Number:    | 305139779143                       |                   |
|                        | Print Close                        |                   |





Friday, November 17, 2023 2:14:01



| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | May-2023                           |                   |
| Challan Number :       | 07423120644737                     |                   |
| Challan Created Date   | 13-06-2023 12:13:16                |                   |
| Challan Submitted Date | 13-06-2023 12:13:57                |                   |
| Amount Paid:           | 5105.00                            |                   |
| Transaction Number:    | 306133293765                       |                   |
|                        | Print Close                        |                   |





Friday, November 17, 2023 2:16:19



| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | Jun-2023                           |                   |
| Challan Number :       | 07423124498334                     |                   |
| Challan Created Date   | 14-07-2023 10:34:58                |                   |
| Challan Submitted Date | 15-07-2023 10:26:42                |                   |
| Amount Paid:           | 4550.00                            |                   |
| Transaction Number:    | 307151226872                       |                   |
|                        | Print Close                        |                   |





Friday, November 17, 2023 2:17:09



| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | jul-2023                           |                   |
| Challan Number :       | 07423127545633                     |                   |
| Challan Created Date   | 11-08-2023 14:59:08                |                   |
| Challan Submitted Date | 11-08-2023 15:00:55                |                   |
| Amount Paid:           | 5415.00                            |                   |
| Transaction Number:    | 308112424257                       |                   |
|                        | Print Close                        |                   |





Friday, November 17, 2023 2:19:18



| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | Aug-2023                           |                   |
| Challan Number :       | 07423131947768                     |                   |
| Challan Created Date   | 14-09-2023 09:18:21                |                   |
| Challan Submitted Date | 14-09-2023 09:20:09                |                   |
| Amount Paid:           | 6130.00                            |                   |
| Transaction Number:    | 309148324386                       |                   |
|                        | Print Close                        |                   |





Friday, November 17, 2023 2:19:59



| Transaction Details    |                                    | * Required Fields |
|------------------------|------------------------------------|-------------------|
| Transaction status:    | Transaction Completed Successfully |                   |
| Employer's Code No:    | 74000071990000910                  |                   |
| Employer's Name:       | GRAPHITE INDIA LTD                 |                   |
| Challan Period:        | Sep-2023                           |                   |
| Challan Number :       | 07423135878282                     |                   |
| Challan Created Date   | 13-10-2023 18:44:49                |                   |
| Challan Submitted Date | 13-10-2023 18:48:11                |                   |
| Amount Paid:           | 5943.00                            |                   |
| Transaction Number:    | 310133342493                       |                   |
|                        | Print Close                        |                   |

## Annexure - 11

### **20 KLD Kitchen Waste Water STP**



## Annexure - 12

## **NEED BASED ACTIVITIES FOR LOCAL PEOPLE**

| SI.<br>No. | under CER   | FY 1 (2022<br>– 23) (As<br>mentioned<br>in EC) in<br>Lacs | FY 2 (2023<br>– 24) (As<br>mentioned<br>in EC) in<br>Lacs | Activity<br>done by<br>proponent      | Project<br>Proponent<br>already<br>spent |
|------------|---|---|---|---------------------------------------|--|
|            | Develop<br>nearby Puja<br>area shed or<br>any other |   |   | i) Puja shed<br>at<br>Sagarbhanga     | 5,24,210.00                              |
| 1.         | requirement arising in nearby areas                 | 3   | 3.5   | ii) Puja shed<br>at Borough<br>Office | 5,87,731.00                              |
|            | 1   | I   | l   | Total                                 | 1111941.00                               |



PAN No

### GRAPHITE INDIA LTD.

Durgapur-713211, Dist.:- Peschim Bardhamen, West Bengal Phone::8870777399, 8670111899

E-mail: dgp\_purchase@graph/lendia.com

Website: www.graphteinda.com

ACTRI7841P GSTN No.

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| Vendor<br>PRAKASI: 00 | 004848<br>ONSTRUCTION | Tel No: | 25080805-00°2  | PO No<br>PO Rev No | OOM-8600001994       | Date 15 06 2020 : |
|-----------------------|-----------------------|---------|----------------|--------------------|----------------------|-------------------|
| ир когоз              | C SAGARBH             | ANGA C  | OLO 951        | Vendor's Ref       | Refer Tox!           |                   |
|                       |                       |         |                | Our Ref            | Refer Text           |                   |
| ļ                     |                       |         |                | Payment Terms      | 45 Days often recoil | pt of materials   |
| DURGARJ               | R (1)                 | 3211    | Velesi diragul | 1 -                | TORG WORSSI          |                   |

19ACTRITIGATELIZA

| lo Mat No                 | Description  | , UOW, | City I        | Rate (INR) |
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| <sup>1</sup> Delivery Sch | edule  |        | i             |            |
| _0;                       | a Quantity by 99.06.2003   | i :    | į             |            |
| The Item cov              | ers the following services   |        | į             |            |
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| TIVE LAKE                 | TWENTY FOUR THOUSAND INVOIGUNDAED TEN Ropees, ONL  | Υ.     | Total Value : | 524 210 00 |

| Other Item ( | Charges  |         |            |       |                               |
|--------------|----------|---------|------------|-------|-------------------------------|
| Mat No.      | Discount | CGST    | SGSTIUTGST | IGST  | Tax Text                      |
|              |          | 9 OC 74 | 3.03 %     |       | (GST Tax Credit (8% SC5T A 5% |
|              |          |         |            | · ··— | CGST))                        |

Terms and Condition

Delivery Instructions

ENTIRE NOVINATED JOB SHALL BE COMPLETED WITHIN THE STPULATED FIVE AS MENTIONED. NITHIS PURCHASE ORDER.

Inspection Ferms

INSPECTION IN STAGE & FINAL SHALL BE DONE BY MIS STILL / GITUS AUTHORIZED. CONSULTANTS & THE SAME SHALL BE AT M/S. GULL SITGUL SIAU THOR/ZED CONSULTANT S

> REGISTERED & M.O. OT CHOWAY WHEE RIDGE KO: KATA-700015 CIN 1. 10197W#1974PLCC\$4EC2

Telephone No. 1491 23 40029600 FAX : +91033-40029676 E-mar till gilro@graphilelndia com i Website www.graphiteindia.com



Durgapur-713211 Dist. :- Peschim Bardhaman, West Əsingəli Prione :8670777399, 8670111899 E-mail ifgp\_purchase@graphileindia.com Website www.graphine.ndia.com GST No.: 19AAAGC0457C1Z4 PAN No.: AAACC0457C

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DISCRETION.

A JUTHE INSTRUMENTS EQUIPMENT PACE IT ES ARRANGEMENTS LI CHE QUIRED DURING INSPECTION TESTINO (I TOUS) ASUBE ARRANGED & PROVIDED BY YOU AT NO EXHACOST TO SELECT

#### Payment Instructions

FCOM AMOUNT OF JOR DONE DITY, DULY CLICTED BY CONCERN DEPARTMENT ALONG WITH APPECAGED 1907A GET AMOUNT SHALL BE RELEASED WITHIN 15 DAYS AFTER SUCCESSIUT JOB COMPLETION DUTY CARTIFIED BY CILIAND ALSO SUBMISSION OF COMPERCIAL INVOIGE 1 500 AT LEAST IN TRIPLICATE

NOTE: STATUTORY DEDUCTION IF ANY, SHALL BUIDEBUCTED FORM YOUR PAYABLE AMOUNT General Instructions

- TI BLEASE ACKNOWLEDGE RECEIFT OF THIS PURCHASE DROFF, SIGN FYING YOUR ACCEPTANCE OF TERMS AND CONDITIONS HERLOH.
- 2. FOR RATES ITERMS AND CONDITIONS, YOUR OHIGRING, PC/GT/002 DATED 15,04,2020. SUBSEQUENT DISCUSSION, NEGOTIATION ETC. HAD WITH YOUR NO. UD(NG ON 16 05,2023.
- 5 WES EGP-0009-RH-08 02 A S.
- 4. SUBMISSION OF SERVICE ENTRY SHEET, WITH INVOICE TOGETHER WITH A COPY OF THIS ORDER IS MANDATORY.
- 6 MOJ SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS FOR THE SAFETY & SEGURITY OF YOUR WORKMEN, FOR WHICH GILL WILL HAVE NO RESPONSEDITY.
- 6 STATUTORY DEDUCTIONS SHALL BE MADE FROM YOUR PAYAB IT AMOUNT
- 7. YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS, FOR THE SAFETY & SECURITY OF YOUR WORKYLN, FOR WHICH OIL WILL HAVE NO RESPONSIBILITY.
- 8 GST GST SHALL SE PAID EXTRA AS APPLICABLE AT THE TIVE OF DISPATCH OF VATERIALS. EGWAVER PRESENT APPLICABLE STATUS IS GIVEN BLLOW. GST JEXTRA @15%

GST M MENTIONED IN THE PIOUS BASED ON "PRESENT APPLICABLE RATES" HOWEVER, THE SAME SHALL BE PAYABLE AT ACTUAL SATES FAS ASPLICABLE AT THE TIME OF DISPATCH OF MATERIAL SUBJECT TO SUBMISSION OF DOCUMENTARY EVIDENCES IF REQUIRED AND APPLICABLE, FURTHER, THIS SHALL BE CONSIDERED ONLY A CONTRACTUAL DEBYERY/WORK COMPLETION PERIOD IS MENTIONED.

ANY CHAIMPEXTRAIGLAIM ON ACCOUNTIGST OF WHATSOLVUR NATURE SHALLINGT BE ENTERTAINED BY G. U. OR WHATSOEVER REASONS AS LER DISPATCH OF THE MATERIAL AS WELL AS IN CASE CONTRACTUAL DELIVERY AWORK COMPLETION PERIOD IS NOT MAINTAINED BY YOU.

REGISTERED & NO. 21 CHCYVRINGHEE ROAD, KOLKATA-700018 CIN 113101W81974PL0394832

Telephone No. . •91-33-40029600 FAX . 491-33-40029675 E-mail for gyro@graphileindia.com — Websile I www.graphiceindia.com



Durgapur-713211, Dist. :- Paschim Bardheman, West Benge-Phone .6670777399, 6670111899

E piail dgp\_purchase@graphreinda.com Website www.graphiteindia.com GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

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5 JURMINATION CONTACTOR SHALL BE TERVINATED

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10 IQUAN FITY \$ 10 TA I VALUE VARIATION, \$ NOT THE QUANTITIES ARE ESTIMATED IVARIATION IN QUANTITY \$ 10R TOTAL ESTIMATED VALUE IT ANY ISSUE AMEND THIS EUROHASE ORDER OR WILL ISSUE A SUPARATE PURCHASE ORDER AS PUR AGRICTO ON TIRATES MENTIONED AROVE.

LETTHE SAME ARAINOT COVERED ABOVE THE SAME SHALL BUINUTUAL: Y DECIDED BASED ON AGREED RATES FOR SIMILAR TYPE OF JOB / SIOR ITEMS AND / OR ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY GIT HOWEVER. THERE IS NO BINOING TO GIT THROUGH THIS PURCHASE ORDER THAT IT THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY. THE REPEAT WORKS WILL BE GIVEN TO THE VENDOR / CONTRACTOR, BLINCH ONCE THE QUANTITY EXCEEDS VENDOR / CONTRACTOR SHOULD IMMEDIATELY INFORM TO GIT FOR FURTHER COURSE OF ACTION.

11 SPECIAL CLAUSES PER JAINING TO ISO: 14001

B PERSONNEL WHO WILL BE WORKING MUST HAVE ADEQUATE SALL LY PROTECTION LIKE HELMET GOOGGES / SPECIACERS, FACE MASK ETC. AS APPLICABLE LOR THE TYPE OF JOB CHOR HANDLING HAZARDOUS MATERIAL YOU MUST HAVE HAZARDOUS MATERIAL HANDLING CHRIDICATE FROM CONCERNED STATUTORY AUTHORITY.

D. VENDOR TO GET THE SITE CLUARANCE CERTIFIED BY DE (BILL MUST AUSO 85 CERTIFIED BY DE MENT ONING "SITE CLUARUD")

LI ANY ENVIORAMENTAL DAMAGE OCCURING DUE TO THE SERVICES PROVIDED BY THE VANDOR WILL BE PENALIZED AS DEFMED FIT BY THE ORGANIZATION (CONCERNED OF TO CURVITY IN BY U.S.).

: ALITHOGOMING VEHICLES SHODLE HAVE VALID PUR (POLLUTION UNDLIK CONTROL) AS PERMOTOR VEHICLES ACT.

G. ALE INCOMING VEHICLES SHOULD HAVE VALID REGISTRATION & INSURANCE CHRIFTCATES TO THE DRIVERS OF ALL INCOMING VEHICLES SHOULD POSSESS VALID DRIVING DICENSE TIALS INCOMING PLASTIC PACKING SHOULD BE MORE 40 MICRON.

, AND INCOMING TANKERS CARRYING HAZARDOUS LIQUID SHOULD HAVE TREVICARD WITH THE DRIVERS.

KI SUPPLIFRS OF ALL TYPES OF BATTER ES MUST BLYBACKHAKL BACK OLD/USFD/REJECTAD. BATTERIES

... VSDS CERTIFICATE TO BE SUPPLIED WITH ALLINEW (FIRST TIME) SUPPLY OF CHEMICAL TUARICANTS OR HAZARDOUS MATERIAL

12 REC/SITERED OFFICE 8 GS F DETAILS:

REGISTERED 8 N.C. 1 CHARRINGHEE ROAD MOLKATA-700018 CINI, D1840 WE1974PLCC64CCS

Telephone No. 191-33-40029600 FAX : P91-33-40029876
E-mail Mill gilre@graphiteindra.com Website Fwww.graphileindra.com



Durgapir-7132(1, Dist. - Paschlin Bardhanian, West Bengal Phone :8670777399, 8670111899 C-mail: egp\_purchase@graphileindia.com Website : www.graphiteindia.com GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

M.S. GRAPHITE INCIALITO DECPOWRINGHEE ROAD, KOLKATA-700016 THE PHONE NO. 55-30-40029800 PAXING BESSEARCERO76 CINE JOSO WASSAME COSASO FEMARIES OF ROBUS AAPTIME NO A COVE

GST NO 10AAACCC457C124

13 (NWARD DELIVERY - LNIRY OF MATERIALS: PASSAGE OR ENTRY ALL SUCH MATERIALS AS ALSO OTHER MATERIALS REQUIRED IN CONNECTION WITH PROPER EXECUTION OF THE JOB. INTO OUR SLANT PREMISES ISHAUL DULY FOLLOW STANDARD INWARD DELIVERY PROCEDURE NOLUDING SUBMISSION OF LIST OF MATERIALS ON COMPANY LETTER-HEAD / CHALLANS AUTHORIZED BY PROJECT DEPARTMENT PERSONNEL AND GATE ENTERED WITH SERIAL NUMBER, DATE AND SIGNATURE OF SECURITY PERSONNE.

CLEAR DISTINCTION SHALL BE MADU BUTWILLNING LURNABLE AND NON RETURNABLE CLASS OF MATERIALS AND SEPARATE CHALLANS CONTAINING ALL DOTAILS OF MATERIALS LIKE MAKE?
BRAND DESCRIPTION AND QUANTITY SHALL BE MADE QUILL OR DIFFERENT CATEGORIES.

ONLY THOSE MATERIALS WHICH ARE ENTERED AS REFERNABLE HAVING A VALID. GATE STAMPED DELIVERY CHALLAN, SKALL DE ALLOWED 10 TAKEN OUT OF PLANT PREMISES. THAT TOO ONLY AFTER THE COMPLETION OF JOB.

14 JURISDICTION ANY DISPUTE RELATING OF THIS PURCHASE DROCK SHALL BE DEEMED TO HAVE ARISEN IN THE LOCAL (ISTATE OF PLANT AND SUBJECT TO ADJUDICATION BY COURTS HAVING JURISDICTION OVER THE LOCATION OF UNIT, IN CASE, THE PURCHASE ORDER IS ISSUED FROM KOLKATA. THEN IN THAT EVENT THE COURTS IN KOLKATA, WEST BENGAL WOULD HAVE JURISDICTION.

15 I GROF MAJEURE CHAUSE ITHIS WILL BUICONSIDERED AND APPLICABLE MAINLY IN THE CASE OF NATURAL CALAMITIES SUCH AS EARTHQUAKES, STORM AND FEODE AND DECLARATION OF WAR BY OR AGAINST OUR COUNTRY TYOWEVER, IN GENERAL NORMS F GUIDGINES GIVEN BY INTERNATIONAL CHAMBER OF COMMERCE

Oursite introduction of GST, the contract price shall be adjusted to take account of any increase or decrease in cost. Further, the Supplier/ Service Provider agrees to comply with a liapplicable GST taws, including OST acts rules, regulations, procedures, circulars & instructions Thereunder applicable in India from time to time and to ansure that such compliance is done within the time prescribed under such laws. Supplier/Service Provider should assure absurate transaction details lies reduired by GST taws, are timely uploaded in OSTN.

TDS will be deducted as per section 194 Q of income Tax Act - Effective from 04 07 2021 wherever applicable

HEGISTERED S HID IST CHINASANGHEE ROAD MOLKATA-700016 CIN LUDI'CHWB1974FCD94602

Telephone No 1+91-3440326600 FAX (+01-3344629676 Elmai: kl., gite@graphtendia.com Whileite : www.graphiteine.a.com

Mobile: 9332017271, 9932653994 E-mail: prakashgicont@rediffmail.com

E-mail : chandraprakashthakur32@gmail.com

GSTIN : 19ACTPT7641P1ZA

# M/S. PRAKASH CONSTRUCTION

FABRICATOR, ERECTOR, MECHANICAL CIVIL CONTRACTOR
& GENERAL ORDER SUPPLIER

Qr. No.- L/32 Sagarbhanga Colony Durgapur-713211

| Rel. | no. | <br> | <br> |
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Date .....

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TO

ORDER NO-DOM/8600001954 DATE-15.06.2023

M/S GRAPHITE INDIA LTD.

DURGAPUR-11

BILL NO.- PC/2023-24/ 58 DATE-23,06,2023

GST NO. 19AAACC0457C1Z4

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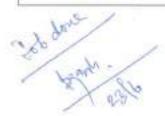
| 1. | PARTICULARS   |          | ANTTEN  | RATE     | AMOUNT    |    |
|----|---|----------|---------|----------|-----------|----|
| o. | SerFab. & Erec. Of Structural shed. HSN NO/SAC CODE-9987 Specification  | QUANTITY |         |          | Rs.       | p. |
|    |   | AU       | 1       |          |           |    |
|    | Towards the charges for providing, Fabrication, Erection etc. of Structural member shed compleately. Towards the charges for providing, and | то       | 4.500   | 74820.00 | 336690,00 | 60 |
|    | applying 01 coat red oxide primer & 02 coat of smoke Grey Finish paint of approved make.  | то       | 4.500   | 2000.00  | 9000,00   | 00 |
|    | Towards the charges for providing, fastners of Galvalume sheet ( Make - "TATA")   | MZ       | 372.000 | 460.00   | 171120.00 | 00 |
|    | Towards the charges for providing, fittings & fixing of Galvalume ridge ( Make- " TATA"   | M        | 20.000  | 370.00   | 7400.00   | 00 |
|    | TOTAL   |          |         |          | 524210.00 | 00 |
|    | SGST 9%   |          |         |          | 47178.90  | 00 |
|    | CGST 9%   |          |         |          | 47178.90  | 00 |
| П  | TOTAL   |          |         |          | 618568    | 00 |

Rupees in words: - Six Lakh Eighteen Thousand Five Hundred Sixty Eight Only.

FOR M/8 PRAKASH CONSTRUCTION

Site Cleared & No Environmental Damage Created.

Quality of Jobs(Please Tick): Excellent/Good/Average/Below Average Completion of jobs(Please Tick): 1. Within the given delivery date, 2. After 7 Days, 3. After 15 Days, 4. More than 15 Days.



GSTIN- 19ACTPT78A1P1ZA



### **GRAPHITE INDIA LTD.**

Durgapur-713211, Dist - Paschim Bardhaman, West Bengal

Phone:8670777399, 8670111699

E-mail cgp\_curchase@graphiteindie.com

Website: www.graphnemdia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

| KASH CONSTRUCT<br>NO 192 SAGA | RB IANGA COL     | DAA.                                    | PC No<br>PC Rev No<br>Vendor's Ref<br>Our Ref<br>Paymont Terms | Refe<br>Refer<br>Refer | liezt<br>tokt<br>toltokt | ate (6:01202)<br>ate |
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IN THIS PURCHASE ORDER

REGISTERED & 4 C 21 COMPRINGINE ROAD MOUNTA-700016 CIN 14101W91974PL0094602

LADIR: NOMINALFO JOB SHALL BE COMPLETED WITHIN 195 STOULATED TIME AS MENTIONED

Teleprone No. 491-33-40029600 FAX : 191-33-40029675 E-mail Idli gliro@graphileind a com — Website Twww.graphileindia.com

Authorised Signatory



### GRAPHITE INDIA LTD.

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal

Phone .5670777399, 8570111899

E-mail , dgp \_puzchase@graphileindia.com

Websile : www.graphteinbia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

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#### Inspection Ferms

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ALE THE INSTRUMENTS LOGIPMENT PAGE THIS ARRANGEMENTS UTCLRUGGRE 1 DIRING INSPECTION TESTING ETC. SHALL BE ARRANGED & PROVIDED BY YOU AT NO FATIRA COST TO GOT

#### Payment Instructions

1009 AMOUNT OF JOE DONE GTY, DOUY CORRESPOND CONCERN DEPARTMENT ALONG WITH APPLICABLE 1009 GST AMOUNT SHALL BEIRGLEASED WITHIN 15 DAYS AFTER SUCCESSOUT 108 COMPLICTION OUTY CERTIFIED BY GIL AND ALSO SUBMISSION OF COMMERCIAL INVOICE - 50 ALILLAST IN TRIPLICATE

NOTE: STATUTORY DEDUCTION IF ANY, SHALL BE DECUCTED FORM YOUR PAYABLE AMOUNT. General Instructions.

- 1, PL: ASH ACKNOWLEDGE RECEIPT OF 1915 PURCHASE ORDER, SION FYING YOUR ACCUPTANCE OF TERMS AND CONDITIONS FERROIT
- $2.4\,\mathrm{OR}$  KAITAS, TERMS AND CONDITIONS, YOUR OFFFRING ACCIDENTED INCLUDING ON 23.06.2023
- WBS, DGP 0009 RH 08-02-A-S.
- 4. SUBMISSION OF SERVICE ENTRY SPILET, WITH INVOIDE TOGETHER WITH A COPY OF THIS GROLD IS MANDATORY.
- 5 YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS, FOR THE SAFETY & SECURITY OF YOUR WORKMEN, FOR WHICH GIT, WILL HAVE NO RESPONSIBILITY.
- 5. STATUTORY OFFICE ONSISHALL BU MADE FROM YOUR PAYABLE AMOUNT
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REGISTERED 8 HIG ST CHOWHINGHEE ROAD, KOLKATA-100015 CIN LIC 01/V51974PLC024602

Telephone No. +91-33-40029978 FAX: +91-33-40029576 F-mail ld : gtro@graphite ridia com : Website : www.graphiteindia.com

Authorised Signalory



### GRAPHITE INDIA LTD.

Durgapur-713211 Dist :- Paschen Bardhaman, West Sengal

Phone: 8870777399, 8670111899

E-mail: dgp\_purchase@graphileindia.com

Website: www.graphiteindia.com/

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

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ENTUR MINED BY OTHER OR WHATSCEVER REASONS AFTER DISPATOR OF THE MATERIAL AS WELL AS IN CASH CONTRACTUAL DELIVERY INVORMICOMAL STICK PERIOD IS NOT MAINTAINED. BY YOU

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THE SAFETY MANAGES ARE VIOLATED AT ANY STAGE OF WORK

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(C. QHANTITY & TOTAL VALUE VARIATION: SINCE THE QUANCITIES ARE ESTIMATED IVARIATION IN QHANTITY & LORIDO IA LESTIVATED VALUE IF ANY, GIL WILL AMEND THIS PURCHASE DROER OR WILL ASSUE A SEMARATE PURCHASE DROER AS PER AGREE DUALT BATES MEN HONEO ABOVE

III THE SAME ARE NOT COVERED ABOVE THE SAME SHALL BE MUTUALLY DECIDED BASED ON AGREED RATES FOR SIMILAR TYPE OF JOB, SIGNITEMS AND JOK ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY GILL HOWLVER. THERE IS NO BINDING TO GILL THROUGH THIS PURCHASE ORDER THAT IF THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY. THE REPLATIVIORKS WILL BE GIVEN TO THE VENDOR FOONTRACTOR HENCE ONCE THE QUANTITY EXCEEDS VENDOR JOON PRACTOR SHOULD IMMEDIATELY INTO RM TO CILLFOR FURTHER.

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A, PREASE MAKE SURL THAT YOUR FIRSONNEL WHO WILL BUICOMING FOR THE JOBARS COVERFOUNDER FELLS: AMEDI-CLAIM CINSURANCE

G. PERSONNEL WHO WILL SE WORKING MUST HAVE ADEQUATE SAFETY PROTECTION USA HILLMET GOGGLES, SPECTACHES, FACE WASKING AS APPLICABLE FOR THE TYPE OF JOS OF YOR HANDENG PAZA SOUS MATERIAL YOU MUST HAVE HAZARDOUS MATERIAL HANDLING CERTS CATS FROM CONCERNED STATUTORY AUTHORITY.

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G. ALL INCOMING VEHICLES SHOULD HAVO VALID REDISTRATION & INSURANCE CERTIFICATES. IL THE DRIVERS OF ALL INCOMING VEHICLES SHOULD POSSESS VALID DRIVING CICENSE ALL INCOMING PLASTIC PACKING SHOULD BE MORE 40 MICRON.

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DEGISTERED 8 H (2) INTO HOWARDSHEE ROAD KOLKATA-790015 CIN 10 10 10 10 NB 1974F1 0004602

Telephone No 1+51-4044029600 FAX : 191-33-40029676 9-mail tair giror§graph teindia.com — Website 1-4-wki graphilamaia.com

Authorised Signatory

#### PURCHASE ORDER

GID-MTL-F008 R6 w.e f. 16,05 2022



### **GRAPHITE INDIA LTD.**

Durgapur-713211, Dist. :- Paschim Bardhamacı West Bengal Phone .8670777399, 8670111899 F-mail . dgc\_purchase@graphteindia.com

Website: www.grapliiteindia.com

GST No.: 19AAACC0457C1Z4 PAN No.: AAACC0457C

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**CUBRICANIS OR HAZARDOUS MATERIAL** 

CORRECTERED OF COLLA USA OF TAUS

FOR 190A 4 TRO NO A SULT

OF CHOVERINGHES ROAD IKOFKATA 700019

FOLEPHONE KO 91 03 40029600 FAXING 01 30 40029616

OINTO 008WE1974PL0004600 FMAILID OILRO @GRAPHITE NO.A COM

GST NO. 19AAAGG0437G1Z4

13. INWARD DETIVERY / ENTRY OF MATERIALS, PASSAGE OR ENTRY ALL SUCH MATERIALS AS ALSO CITIES MATERIALS REQUIRED IN CONNECTION WITH PROPER EXECUTION OF THE JOS INTO OUR PLANT PREMISES IS AND DULY FOLLOW STANDARD INVARDIBLE VERY PROCEDURE INCLUDING SUBMISSION OF LIST OF MATERIALS ON COMPANY FETTER-HEAD I CHAIL ANS AUTHORIZED BY PROJECT DEPARTMENT PERSONNEL AND GATE ENTERED WITH SER AT NUMBER, DATE AND SIGNATURE OF SECURITY PERSONNEL

CLEAR DISTINGTION SHALL BE MADE BITTWIFFN RETURNABLE AND NON-RETURNABLE CLASS OF MATERIALS LIKE MAKE? MATERIALS LIKE MAKE? BRAND IDESCRIPTION AND QUANTITY SHALL BE MADE QUITTOR DIFFERENT CATEGORISS.

ONLY THOSE MATERIALS WHICH ARE ENTERED AS RETURNABLE HAVING A VALID CASE-STAMPLD DELIVERY CHALLAN, SHALL BE ALLOWED TO TAKEN OUT OF PLANT PREVISES. THAT TOO ONLY AFTER THE COMPLETION OF JOB

14 JURISD CHOM ANY DISPUTE RELIATING OF THIS PURCHASH, ORDER SHAUL BUDGEMED TO HAVE ARISEN IN 11HE LOCAL / STATE OF PLANT AND SUBJECT TO ACTUDICATION BY COURTS HAVING JURISDICTION OVER THE LOCATION OF JINITHIN CASE, SHE CURCHASE ORDER IS ASSUED FROM KOLKATA ITHEN IN THAT EVENT THE COURTS IN KOLKATA, WEST BUNGAL WOULD HAVE JURISDICTION

15 FORCE MALCURE CLAUSE: THIS WILL BE CONSIDERED AND APPLICABLE MAINLY IN THE CASE OF NATURAL CALAMITIES SUCH AS FART HOUAKES, SHORM AND FECOLIAND DECLARATION OF WAR BY OR ASAINST OUR COUNTRY HOWEVER, IN CENERAL NORMS ( OU DELINES GIVEN BY INTERNATIONAL CHAMBER OF COMMURGE)

Due to introduction of GST, the contract price shall be addistant to take account of any increase or cacrease in cost. Further, the Supplies Service Provider agrees to comply with all applicable (981) lower including CST acts. Fulcs inogulations, procedures in roughs & instructions directly open applicable in the orthogonal to the and to ensure that such compliance is done within the time proscribed under such dws. Supplied Service Provider since to account transaction debuts, as required by GST, lower are timely uploaded in GSTN.

TDS will be deducted as per section 194 () of income Tex Art. Principle from 01.07.20.11 wherever applicantly

REGISTERED & HIGH SHICKLING MEER ROAD, KOLKATA-7000/16 CIN I 1010/1988/02/2003/2602

Telephona No. 1 = 91-30.40029800 FAX . 491-33-40029876 Filman idingtra@graphiteirdia.com — Weberle - www.graphiteirdia.com

Authorised Signatory

@SES NO-1000 202797 dated 26/08/2023 Mobile: 9332017271, 9932653994

E-mail: prakashgicont@rediffmail.com E-mail: chandraprakashthakur32@gmail.com

GSTIN: 19ACTPT7641P1ZA

# M/S. PRAKASH CONSTRUCT

FABRICATOR, ERECTOR, MECHANICAL CIVIL CONTRACTOR & GENERAL ORDER SUPPLIER

Qr. No.- L/32 Sagarbhanga Colony Durgapur-713211

Ref. No. ....

|  | LL    |         |          |             |        |
|--|-------|---------|----------|-------------|--------|
| SHIRITE HADIA LID  | ORDE  | R NO-DO | M/860000 | 1963 DATE-0 | 5.07.2 |
| DURGAPUR -11 BILL NO PC/20   | 23-24 | 1123    | DATE- 2  | 5.08.2023   |        |
| GST NO. 19AAACC0457C1Z4<br>SES NO  |       |         |          |             |        |
| SL.  | 1     |         | _        |             |        |
| No. PARTICULARS  | QL    | ANTITY  | RATE     | AMOUNT      |        |
| Civil Works including Building sheeting. HSN NO/SAC CODE-9987 Specification Towards the charges for Bricks work for          | AU    | 1       |          | Rs.         | P      |
| making 10" Thick wall with 1st class brick including all supply.   | FT2   | 270,000 | 489.00   | 132030      | 00     |
| Towards the charges for Pastering Works including all supply.  Towards the charges for Providing.                            | FT2   | 1150.00 | 200.00   | 230000      | 00     |
| Fabrication & Fixing of ISA 75 (6000mm x12<br>Pcs =72 mtr. @6.8 kg / mtr= 489.60 kg)   | то    | 0,490   | 74820,00 | 36661.80    | 00     |
| Towards the Charges for Providing. Fittings & fixing of "TATA" make Galvalume roof sheet.                                    | M2    | 324,000 | 460.00   | 149040      | 00     |
| Towards the charges for Providing and fixing of floor Tiles & skirting Tiles (18' X18'= 324 sq Ft., 1/2' X4 x18= 36 sq Ft.). | AU    | 1.000   | 40000.00 | 40000       | 00     |
| TOTAL  |       | 80 3    |          | 587731,80   | 00     |
| SGST 9%  | : 1   |         |          | 52896       | 00     |
| TOTAL CGST 9%  | _     |         |          | 52896       | 00     |
| AVIAL  |       |         | 1        | 693524      | 00     |

Rupees in words:- Six Lakh Ninety Three Thousand Five Hundred Twenty Four Only.

C. P. Thakw For M/s PRAKASH CONSTRUCTION

Site Cleared & No Environmental Damage Created.

Quality of Jobs(Please Tick):Excellent/Good/Average/Below Average

Completion of jobs(Please Tick): 1. Within the given delivery date, 2. After 7 Days,

3. After 15 Days, 4. More than 15 Days.

GSTIN-19ACTPT7641P1ZA

E. & O. E











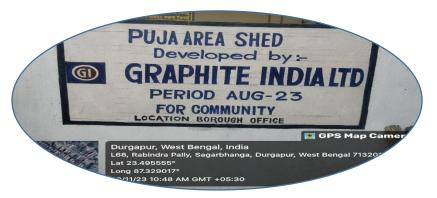
Puja shed in Sagarbhanga locality within 5 km radius











Puja shed in Borough Office locality within 5 km radius



# GRAPHITE INDIA LIMITED

REGD. & H.O.: 31, CHOWRINGHEE ROAD, KOLKATA - 700 016, W.B., INDIA PHONE: 91 33 4002 9600, 2226 5755 / 4942 / 4943 / 5547 / 2334, 2217 1145 / 1146

FAX: 91 33 2249 6420, E-mail: gilro@graphiteindia.com WEBSITE: www.graphiteindia.com, CIN: L10101WB1974PLC094602

# **ENVIRONMENTAL POLICY**

Graphite India Limited is engaged in the manufacturing of carbon, graphite and other products. We believe that protecting environment is also an essential element of our operations. To achieve this including compliance within norms, use of sustainable resources, climate change mitigation and adaption and protection of biodiversity and ecosystems, company is committed to

- a) Minimising pollutants in air emissions, effluents, solid wastes and noise
- Upgrading technology level through continual improvement for prevention and reduction of pollution.
- Operating and maintaining the facilities so as to ensure compliance with all applicable legal and other obligations
- Determining the risk and opportunities related to its environmental aspects and compliance obligations
- While investing in new plant and equipment or technology, its environmental impact will be reckoned and appropriate provisions will be made for Energy efficiency.
- f) Setting environmental objectives and targets along with an integral process of periodical review to target enhancement of environmental performance.
- g) Conserving raw materials, natural resources and energy by reducing consumption and wastes
- h) Maintaining the policy as a documented information and effectively communicating it to all persons working for or on behalf of company and making it available to all relevant interested parties on request.
- i) Responsibility in this regard lies with "Manager" in each of the locations.

DATE: 01.04.2020

EXECUTIVE DIRECTOR



# CERTIFICATE

Management system as per

ISO 14001: 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

**GRAPHITE INDIA LIMITED** Sagarbhanga, Durgapur - 713 211, West Bengal, India



operates a management system in accordance with the requirements of ISO 14001: 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Supply of Graphite and Carbon Products.

Certificate Registration No. 44 104 14390299 Audit Report No. 2.5-2844/2000

Valid from 05.09.2023 Valid until 27.08.2026 Initial certification 28.08.2014

at TÜV NORD CERT GmbH

Mumbai, 05.09.2023

TÜV NORD CERT GmbH

Am TÜV 1

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www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in







# CERTIFICATE

Management system as per

ISO 45001: 2018

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

# **GRAPHITE INDIA LIMITED GE DIVISION**

Sagarbhanga, Durgapur - 713 211, West Bengal, India



operates a management system in accordance with the requirements of ISO 45001: 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

# Manufacture and Dispatch of Graphite and Carbon Products.

Certificate Registration No. 44 126 23394093 Audit Report No. 2.5-11325/2023

Certification Body at TÜV NORD CERT GmbH Valid from 11.06.2023 Valid until 10.06.2026 Initial certification 11.06.2023

Mumbai, **11.06.2023** 

TÜV NORD CERT GmbH

Am TÜV 1

45307 Essen

www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in





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এতোদ্বারা জনসাধারণকে জানানো যাইতেছে যে স্টেট এনভায়রনমেন্ট ইমপ্যাক্ট অ্যাসেসমেন্ট অথরিটি (SEIAA), পশ্চিমবঙ্গ, মৌজা গোপিনাথপুর জেলা পশ্চিম বর্ধমান, পশ্চিমবঙ্গ JL নং ৮৫ এবং মৌজা নডিয়া JL নং ৯২ প্লটে অবস্থিত, মেসার্স গ্রাফাইট ইন্ডিয়া লিমিটেড, সাগরভাঙ্গা, দুর্গাপুর, EC আইডেন্টিফিকেশন নং ০১ P0808P08500 মোতাবেক KTPA-এর প্রস্তাবিত ৫২ KTPA থেকে ৬৭ KTPA ক্ষমতা সম্প্রসারণের জন্য পরিবেশগত ছাড়পত্র জারি করেছে ১০.৩.২০২৩ তারিখে। SEIAA দ্বারা জারি করা পরিবেশগত ছাড়পত্র SEIAA, পশ্চিমবঙ্গের অফিসিয়াল ওয়েবসাইটে এবং পশ্চিমবঙ্গ দৃষণ নিয়ন্ত্রণ পার্সদ এর সাথে উপলব্ধ প্রাম্রাইট ইন্ডিয়া লিমিটেড,

Al Triple Camera সাগরভাঙ্গা,

দর্গাপর-৭১৩২১১

# NOTICE

This is for the information to all General Public, Bank and Financial Institution that my clients Biswajit Mazumder, S/o Late Badal Chandra Mazumder, resident at, Alamganj, Mota Shiv Tala, P.O. Natunganj, within P.S. Burdwan, Dist-Purba Barddhaman & Asim Kumar Bardhan, S/o Late Anil Kumar Bardhan, resident at-Tejganj School Para, P.O.- Natunganj, within P.S.- Burdwan, Dist-Purba Barddhaman, do hereby declare that Original Chain Deed of Chain Deed (Sale) being No. 2651 dated 23.03.2006, registered A.D.S.R Burdwanin connection with the Schedule mentioned Property has been lost from my clients custody and one General Missing Diary have been lodged regarding loss of aforesaid Original Chain Deed of Chain Deed (Sale) before the I.C. Burdwan P.S., Purba Barddhaman, G.D. Entry No.: 1282 dated 13.03.2023. and as such If that the Original Chain Deed of Chain Deed (Sale) being No, 2651 dated 23.03.2006, registered A.D.S.R Burdwanis under Charge Vivo V15Pro Bank or Financial

Al Triple Camera

3

Burdwan Municipality, ward No. 22, Mouza: Alamganj, J.L. No. 31, L.R.Khatian No. 3880 & 3976, R.S. Plot No. 203 & L.R. Plot No.630, Class: Chira Mill, Area: 2880Sq-Ft.

Kripa Sankar Mondal Advocate District Judges Court, Burdwan Bar Association Room No. 07, (Rashbihari

Kashya) Phone No.: 8348761945/ 9064544734

9064544734 This is to inform the public that State Environment Impact Assessment Authority (SEIAA), West Bengal has issued Environmental Clearance to M/s Graphite India Limited, Sagarbhanga, Durgapur for Proposed Expansion of Capacity from 52KTPA to 67KTPA, Vide EC Identification No EC23B020WB141674 Dt: 10.03.2023 located at plots of Mouza Gopinathpur JL no. 85 & at plots of Mouza Nadia JL no. 92, District Paschim Burdhaman. West Bengal. The Environmental clearance issued by SEIAA is available on the official website of SEIAA, WR and the same is available with WBPCB.

M/s Graphite India Limited, Sagarbhanga, Durgapur-713211

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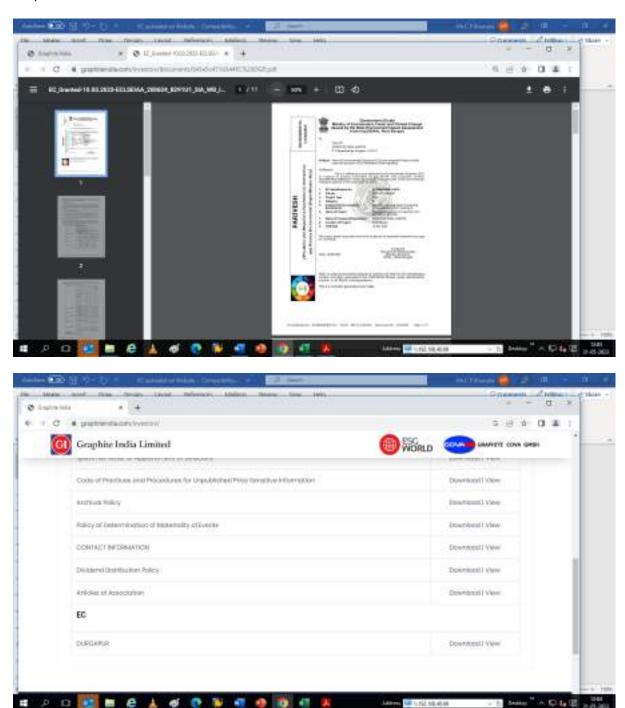
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#### https://graphiteindia.com/investors/documents/643e5c471d344EC%20DGP.pdf

Link of EC uploaded on Website of <a href="www.graphiteindia.com">www.graphiteindia.com</a> under Investor relation page below Corporate Governance





## GRAPHITE INDIA LIMITED

DURNATUR THEFT DEST BUILDINGS EMPT providing Destarrationed and

DE 13.03.2023

To, The Office of the Sabhadhipati. Paschini Bardhaman Zilla Parishlat. Gest. of West Bengal.

Ref: EC Identification no. EC238020WB141674 Ot: 18.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

Sub: Submission of Environmental Clearance (EC) copy to Head of local bodies / relevant Government offices.

Dear Sir,

This is in reference to above mentioned Environmental clearance, we are summitting the copy of EC as per the attached EC condition in Punit XI, is of page 7 for your display of the same for 30 days from the date of recept of this letter.

Kindly advantedge and oblige.

Thanking you.

Yours Fathfully,

For Graphite India Limited.

Ranadeep enaviationty Vice President (Works)

Enclased - As about



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DURISAPUR 213211 DIST- BURDYLAN ENTRE Quineral doorgonizationals con

Ot 13.03.2023

TO:

The Office of Additional District Magistrate (LR), Paschim Bardhaman, Govt, of West Bengal.

Ref: EC Identification no. EC238020W8141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

Sub: Submission of Environmental Clearance (EC) copy to Head of local bodies / relevant Government offices.

Dear-Sir,

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Kindly acknowledge and oblige.

Thanking you.

Yours Faithfully,

For Graphite India Limited.

Vice President (Works)

Enchised - Az abeve

Received but Contents are not verifiger B. chalruberty Repaying Clark

DL&LRO, Pauchim Burchs.

REGISTERED OFFICE & H.O. OF CHOWRINGHEE ROAD, KOLKATA 700 016 CPV - L10101Wk1974PLC0340027 Phone - +91-23-40029600 Fax +91-33-40029676 E-Mail girol@graphteindis.com Website www.graphreindia.com



CURGAPUR T13311, DIST- BUREMAN-E-Mail general Roo-@graphte ndla com

Dt: 13.03.2023

To, The Office of District Megistrate, Paschim Bardhaman, Govt. of West Bengal.

Ref: EC Identification no. EC238020WB141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

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Dear Sir.

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Kindly acknowledge and oblige.

Thanking you.

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty Vice President (Works)

finclosed - As storer



THE DISTRIBLE OFFICE 6 HO. 31 CHOWRINGHEE ROAD, KOLKAYA 700 010

CHI - L13101W01974FLC094002 Phone - +91-33-40029000 Fax +91-33-40029676 E-blad phoggraphsondia.com

(Notacla www.graphsondia.com)



DURGAPUR 713211, DIST- BURDWAN E-Mail general dgp@graphiteindia.com

Dt: 13.03.2023

To,
The Office of the Block Development Officer,
Durgapur -Faridpur Development Block,
Paschim Bardhaman,
Govt. of West Bengal.

Ref: EC Identification no. EC23B020WB141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

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Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Glakraborty Vice President (Works)

Enclosed - As above

RECEIVED WITHOUT VERIFICATION

Receiving Staff
Block Development Office

Durgapur Faridpur

REGISTERED OFFICE & H.O. - 31, CHOWRINGHEE ROAD, KOLKATA 700 016
CIN - L10101WS1974PLC094802 Phone - +91-33-40029600 Fax: +91-33-40029676 E-Mail: gilto@graphteindia.com
Website: www.graphiteindia.com



DURBLANUR 213211 DIET BURDYANN LI Mais general ageilly vanishend in north



DE 13.03.2023

To,
The Office of Environmental Engineer,
West Bengal Pollution Control Board,
Durgapur Regional Office,
Sehid Khudiram Sarani,
City Center,
Durgapur - 713216.

Ref: EC Identification no. EC238020W8141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

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Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty vice President (Works)

Enclosed - As whose

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DURGAPUR 713211, DIST- BURDWAN E-Mail general spr@graphsenda.com

DE: 13.03.2023

To,
The Office of the Sub-Divisional Officer,
Durgapur Sub-Division,
Paschim Bardhaman,
Govt. of West Bengal.

Ref: EC Identification no. EC23B020WB141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

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Thanking you.

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty Vice President (Works)

Enclosed - As above

1818 2023 SDO Office Surgapur

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DURGAPUR 713211, DIST- BURDWAN E-Mail : general\_dgp@graphiteindia.com

Dt: 13.03.2023

To,
The Office of the General Manager,
District Industries Center,
Paschim Bardhaman,
Govt. of West Bengal.

Ref: EC Identification no. EC23B020WB141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

Sub: <u>Submission of Environmental Clearance (EC) copy to Head of local bodies / relevant Government offices.</u>

Dear Sir,

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Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty Vice President (Works)

Enclosed - As above

13-3 -2027

Received (Contents not Verified)

Anc. Ind. Dev. Cell & Sub-DIC., Durgaput

Durgapur, Govt. of West Bengal



DURGAFUR TIESTS DIST. BLADWAN E-Wei garene gan@granhanda.com

Db: 13.03.2023

To. Commisioner "

The Diffice of the Durgapur Municipal Corporation.

Paschim Bardhemen, Govt. of West Bengal.

Ref: EC Identification no. EC23B020WB141674 Dt: 10.03.2023 for Proposed Expansion of Capacity From 52KTPA to 67 KTPA

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Yours Faithfully,

For Graphite India Limited.

Ranadeep-Phakraborty Vice President (Works)

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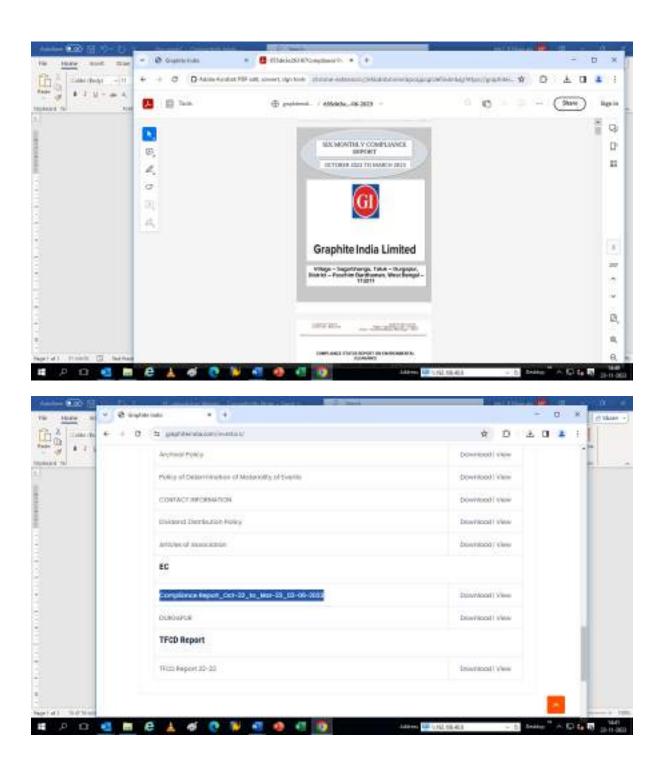
REDISTERED OFFICE & N.O.: 31 CHOWRINGHEE ROAD, KOLKATA 700 618

CIN - L10161W91STAFLCOMMOD Frome - +91-33-40029816 E-Mail girls grapheenda.com

Website www.graphtenda.com

https://graphiteindia.com/investors/documents/655de3e263167Compliance%20Report Oct-22 to Mar-23 02-06-2023.pdf

Link of Six monthly Environmental compliance Status Report (for the period Oct-22 to Mar-23) on our Website permanently uploaded on Website of <a href="https://www.graphiteindia.com">www.graphiteindia.com</a> under Investor relation page below **EC heading** 





# Annexure - 18 GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST. - BURDWAN E-MAIL : general\_dgp@graphiteindia.com



To,
The Office of Environmental Engineer,
West Bengal Pollution Control Board,
Durgapur Regional Office,
Sahid Khudiram Sarani,
City Center,
Durgapur - 713216.

Sub: "Environmental Statement" of M/s. Graphite India Limited, Durgapur 713211. W.B., for the financial year, ending 31\* March, 2023 in Form V, in compliance with the requirement of "Environment protection Amendment Rule(1993, Rule-2(b))" notified vide G.S.R 3'6(E) dated 22.04,1993

Dear Sir,

On the above stated matter, enclosed please find herewith one set of "ENVIRONMENTAL STATEMENT", in Form - V prepared by our Sr. Manager (Technical ) for your kind perusal.

Hope, you will find everything in order.

Thanking you,

Yours Faithfully, For Graphite India Limited.

Ranadeep Chakraborty

(Executive Vice President Works)

Encl: Environmental Statement

city

# **LED Light Photographs**



