

**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

Sl.	Compliance conditions	:	Compliance status
i.	The project proponent shall obtain forest clearance under the provisions for Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose in the project.	:	The project proponent does not required forest clearance as the expansion project is in the existing industrial land.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	:	It is not applicable as the expansion project is in the existing industrial land.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation 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).	:	Site-Specific Conservation Plan & Wildlife Management Plan does not required for this project as there is no Schedule I species present in the 10 km radius of the project.

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

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

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

Sl.	Compliance conditions	:	Compliance status
x.	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.		Storage of raw materials are stored in covered areas to prevent dust pollution and other fugitive emissions.
iii.	Water quality monitoring and preservation		
i.	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises (applicable in case of the projects achieving ZLD).		Presently there is no discharge of effluent of outside the plant. The unit will install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises. Purchased has been attached as Annexure – 3.
ii.	The project proponent shall monitor regularly ground water quality at least twice 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.		The condition is not in project configuration.
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority/Zonal office of CPCB/ State Pollution Control Board along with six-monthly monitoring report.		Presently there is no discharge outside the plant. Manual monitoring of water quality has been attached as Annexure – 4 and same will be submitted to Regional Office of Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority/Zonal office of CPCB/ State Pollution Control Board along with six-monthly monitoring report.
iv.	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the		The effluent discharge conforms to the standards prescribed under the Environment (Protection) Rules,

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

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

Sl.	Compliance conditions	:	Compliance status
iii.	<p>The company shall undertake waste minimization measures as below:-</p> <ol style="list-style-type: none"> a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation. 		<p>The company has undertaken the waste minimization measures as mentioned in the condition –</p> <ol style="list-style-type: none"> a. Project proponent has metering and control of quantities of active ingredients to minimize waste. b. By-products are reused or sold. c. Automated filling is used to minimized spillage. d. The condition is not in project configuration. e. The condition is not in project configuration. f. The condition is not in project configuration.
vii.	Green Belt		
i.	<p>The green belt of 5-10 m width shall be developed in the total project area and also in the compensatory plantation area as proposed by the project proponent. In this regard, O.M. issued by MoEF&CC vide F No 22-2312018.IA.III(Pt.) dated 31.10.2019 should be strictly complied with, as the project is located within the municipal boundaries of Durgapur Municipal Corporation which is declared as Severely Polluted Area. The plantation should be done mainly along the plant periphery, in downward wind direction, and along road sides etc. and also in the colony areas. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. The project</p>		<p>The project proponent has developed within project and colony areas. 90% of 4332 sq. m. greenbelt area has been developed by planting 610 Plants till date, Mango – 180 nos, Bakul – 128 nos, Radha Chura & Krishna Chura- 203 nos , Jack Fruit- 99 nos. rest are in process of plantation. Green belt at Colony area is developed as per proposal. The project proponent has followed the plantation plan submitted and uploaded in the PARIVESH portal. Photographs and layout of old colony and new colony are attached as Annexure – 7.</p>

Sl.	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 Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.		Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is implemented.
ii.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.		The unit has made the arrangement for protection of fire hazards during manufacturing process in material handling. Fire fighting system is as per the norms.
iii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre- employment and routine periodical medical examinations: for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.		Training is imparted to all employees on safety and health aspects to product handling. Routine periodical medical examinations for all employees is done on regular basis. Health register is maintained. Health register and training photographs have been attached as Annexure – 8.
iv.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.		This condition is not in project configuration.
v.	Provision shall be made for the housing of construction labour within the site with		Provision was made for the housing of construction labour

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

Sl.	Compliance conditions	:	Compliance status
			20 KLD kitchen waste water has been attached as Annexure – 11.
ii.	Need based activities for local people is part of the EMP. Details of such activities are submitted by the project proponent is given in Annexure – 3.		Need based activities for local people is part of the EMP has been complied with and addressed in six monthly compliance report. See Annexure – 12.
iii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy 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.		The company has prepared environment policy. The policy has been attached as Annexure – 13.
iv.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly to the head of the organization.		Project proponent already have environment management system organizational structure which is given in EIA.
v.	Action plan for implementing EMP and environmental conditions along with		Action taken for the EMP which is need based activity for local people

Sl.	Compliance conditions	:	Compliance status
	responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection 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.		will be complied with and details with the same will be shared in six monthly compliance report. See Annexure – 12.
vi.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.		Self environmental monitoring is done on quarterly basis and reports of the same is submitted to WBPCB. A every year third party environmental management system audit carried out. Audit certificates are attached as Annexure – 14.
x.	Additional conditions		
a.	The project proponent should comply with the conditions mentioned in O.M. issued by MoEF&CC vide F No. 22-2312018.IA.III(Pt.) dated 31.10.2019 as the project is located within the municipal boundaries of Durgapur Municipal Corporation which is declared as Severely Polluted Area.		The project proponent complies with the conditions mentioned in O.M. issued by MoEF&CC vide F No. 22-2312018.IA.III(Pt.)dated 31.10.2019 as the project is located within the municipal boundaries of Durgapur Municipal Corporation which is declared as Severely Polluted Area.
b.	The project proponent shall install display board for display of all the environmental parameters including sensor-based air, water and noise quality monitoring stations as proposed within their premises.		The project proponent is in process of installation of display board for display of relevant environmental parameters. Purchase order is attached as Annexure – 3.
xi.	Miscellaneous		

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

Sl.	Compliance conditions	:	Compliance status
			screenshot has been attached as Annexure – 17.
v.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.		The project proponent has monitored the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and displayed the same in the website through six monthly compliance report.
vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal with a copy to SEIAA/WBPCB.		The project proponent is submitting six-monthly reports on the status of the compliance of the stipulated environmental conditions. Refer Annexure – 17.
vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under; the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.		The project proponent has submitted the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board. Submission letter has been attached as Annexure – 18.
viii.	The project proponent shall inform the Regional Office of the MoEF&CC along with SEIAA and WBPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.		The project proponent has obtain the CTE and CTO where in the details of the project were being already disclosed.

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

Sl.	Compliance conditions	:	Compliance status
	MoEF&CC/SEIAA/WBPCB by furnishing the requisite data / information / monitoring reports,		
xvi.	The above conditions shall be enforced, inter-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.		The condition will be followed.
xvii.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.		The condition will be followed.

Annexure - 1



GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST. - BURDWAN
E-MAIL : general_dgp@graphiteindia.com



16.06.2023

To
The Office of Environmental Engineer,
West Bengal Pollution Control Board,
Durgapur Regional Office,
Sahid Khudiram Sarani, City Center,
Durgapur - 713216.

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, VIII - Sagarbhanga, Durgapur Dist - Paschim Bardhaman, West Bengal vide CTE no. NO172047 & EC Identification no. EC23B020WB141674 (Proposal No. SIA/WB/IND2/79688/2021) along with the relevant annexures.

Dear Sir,

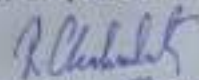
Please find the Application no. 3832565 dt: 07.06.2023 for the **Consent to Operate of 15,000MT per annum Finished Capacity Expansion Project** along with the following annexures.

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 Machineries installed.(Annexure -4 pg 2)
2. Undertaking in Non Judicial Stamp paper by the Organizational Head.
3. Land Plot Schedule & Map
4. Xerox copy of the valid Consent to Establish for 15000MT /Annum Finished Capacity Expansion Project
5. 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 KTPA to 67 KTPA
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.
9. 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)

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SPEED POST



NOC NO172047

WEST BENGAL POLLUTION CONTROL BOARD

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

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

Dated 31.03.2023

From :
Member Secretary,
West Bengal Pollution Control Board

To: M/s. Graphite India Limited,
Sagarbhangra, Durgapur-713211, Dist.- Paschim Bardhaman, West Bengal.

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

Ref: i) Your letter No. Nil Dated 24.03.2023
ii) Environmental Clearance issued by SEIAA, Wb, vide EC Identification No. EC23B020WB141674, File No. EN/T-II-i/126/2021 dated 10.03.2023

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed ^{expansion} Unit of M/s Graphite India limited, Sagarbhangra, Durgapur-713211, Paschim Bardhaman, W.B. for ~~manufacturing~~ ^{expansion} ~~storage~~ ^{installation} ~~of one Baking Furnace (Richhammer Baking Furnace, AH 24 section Unit-III) & released accessories replacing one old Recirculating Baking Furnace) for increase in finished product capacity~~ ^{at existing Unit at Sagarbhangra, Durgapur, Paschim Bardhaman, West Bengal.} ~~from 52 KTPA to 67 KTPA (additional production of 15000 MTPA)~~ this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

1. 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.
2. 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.
3. 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.
5. 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.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

Mukherjee
09/03/2023
Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

NOC NO172047

7. You shall comply with
- Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
 - Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - Environment (Protection) Act, 1986
 - Environment (Protection) Rules, 1986
 - Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. 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)

Yours faithfully,

31/03/2023
Member Secretary/Chief Engineer,
West Bengal Pollution Control Board
(SIN CELL)

Memo No. **151 - ZN-08/2020(E)-Pt.-I** Dated..... **31.03.2023** Chief Engineer.....
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy forwarded for information to :

- Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
- Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
- Guard file, West Bengal Pollution Control Board.
- Environmental Engineer, VIII/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan
Delhi Road, Dankuni
Dist. Hooghly

VIII, Parpur
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
Housing Estate
P.O. : Khanjanchak,
P.S. Durgachak
Haldia-721602
Dist. : Purba Medinipur

Paribahan Nagar
Matigara, Siliguri
Dist.-Darjeeling

Satya Chowdhury
Indoor Stadium
Balurcher Bandh Road
Malda-732101

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

31/03/2023
Member Secretary/Chief Engineer,
West Bengal Pollution Control Board
(SIN CELL)
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

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

Emission :-

Sl. No.	Equipment	APC device	Stack Height (m)
1	Proposed Finishing unit Electrode dust collector	Bag Filter	15
2	Proposed Finishing unit nipple dust collector	Bag Filter	15
3	Riedhammer Baking Furnace	ESP	45
4	Stock cleaning machine dust collector	Bag Filter	24
5	Jaw Crusher machine dust collector	Bag filter	22
6	3X500 KVA DG Sets	Individual acoustic enclosures with stacks of height 9m above DG room	

- 1) 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 $30\text{mg}/\text{Nm}^3$.
- 2) The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 should be complied with.
- 3) Dry fog system and water sprinklers to be installed to arrest fugitive emission.
- 4) 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 :-

- 1) 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 :-

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

General :-

- 1) Noise Control – Ambient noise level not to exceed the permissible limit.
- 2) No additional machineries / equipment can be installed without prior permission from the State Board.
- 3) 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.
- 5) Proper lighting and proper pathway inside the factory premises should be constructed.
- 6) Adequate measures to be adopted for control of fugitive emission.
- 7) 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.
- 9) 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.

M. M. M.
31/08/2023
Chief Engineer
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, 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.
- 13) 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.

Mukherjee
31/03/2023

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: 25-Dr-CO/P/12/0341-

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 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended 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 :

Graphite India Limited

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Sagarbhanga, Durgapur,

P.S - Coke Oven, Paschim Bardhaman
-713211

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/11/2023

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.

* The unit should comply with all the directions of the board issued time to time and all the terms and conditions stipulated in the previous Consent to Operate vide no. CO092315 dated 09/11/2015.



For and on behalf of the State Board

[Signature]

(Member Secretary/Chief Engr./ Sr. Env. Engr. / ~~Assistant Secretary~~ Assistant Secretary Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

ANNEXURE

Consent to Graphite India Limited
 for its unit at Sagarbanga, Durgapur, P.S. - Coke Oven,
Paschim Bardhaman - 713211

Conditions :

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

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Electrode	4333.33 MT
02	Pitch Coke	102.97 MT
03	Met Coke fines (As-Products)	919.68 MT
04	Graphite fines (As-Products)	633.50 MT
05	Coal Tar Pitch from ESP (As-Products)	28.52 MT
06		
07		
08		
09		
10		
11		
12		

02. The 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.
04. Daily discharge of domestic liquid effluent shall not exceed KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 453 KL.
06. The Applicant shall discharge liquid effluent to Outside after treatment (place of discharge) through three 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.)

Assistant Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to ⁽⁴⁾ Graphite India Limited
 for its unit at Sugarkhanga, Durgapur, P.S - Coke Over,
Paschim Bardhaman - 713211

11. 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.
12. 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 facilitate 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 No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-1									
S-2									
S-3									
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

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

Assistant Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to Graphite India Limited
 for its unit at Sagarbanga, Durgapur, P.S - Coke Area,
Paschim Bardhaman - 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 :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	CBM Gas	6225.76.75 m ³ /month	Boilers & different furnaces
02	Furnace Oil	492.66 KL/month	Baking furnace
03	HSD	-	Different D.G. sets
04			
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

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 _{eq}
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.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. 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.)

Rahul
 Assistant Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to Graphite India Limited
 for its unit at Sagarbhanga, Durgapur, P. S - Coke Oven,
 Paschim Bardhaman - 713211

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. 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.
30. 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.
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.
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.
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.

This Consent may be revoked subject to any valid public complaint for violation of environmental norms.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr. Assn./Jr. Engr.)
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to Graphite India Limited
for its unit at Sagarshanga, Durgapur, P.S - Coke Oven,
Paschim Bardhaman - 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 :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	CBM Gas	6225.76-75 m ³ /month	Boilers & different furnaces
02	Furnace Oil	492.66 KL/month	Baking furnace
03	HSD	-	Different D.O. etc.
04			
05			

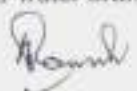
- 16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal

- 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 _{eq}
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.
- 21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- 22. 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
 Durgapur Regional Office
 West Bengal Pollution Control Board

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 No.	Stack ht. from G. L in mts.	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed		Frequency of sampling
					SPM (mg/Nm ³)	CO (% v/v)	
1	30	Mixture Fume Extractor (North) (Extrusion Dept.)			150	1	Half yearly
2	30	Mixture Fume Extractor (South) (Extrusion Dept.)			150	1	Half yearly
3	30	Cooler North (Extrusion Dept.)			150	1	Half yearly
4	30	Cooler South (Extrusion Dept.)			150	1	Half yearly
5	30	Fume Extractor (West side) weigh floor (Extrusion Dept.)			150	1	Half yearly
6	7	Raymond Mill Dust Collector (Extrusion Dept.)			150		Half yearly
7	7.1	Scrap System Dust Collector (Extrusion Dept.)			150		Half yearly
8	12	Main Dust Collector (Extrusion Dept.)			150		Half yearly
9	10	Baking Milling Dust Collector			150		Half yearly
10	30	Baking Furnace (Fce. 1 to 5 side)			150	1	Half yearly
11	30	Baking Furnace (Fce. 6 to 10 side)			150	1	Half yearly
12	30	Ried Hammer Furnace (Baking Dept.) (14 SECTION)			150	1	Half yearly
13	45	Ried Hammer Furnace (Baking Dept.) (16 & 24 SECTION)			150	1	Half yearly
14	30.48	P.I. UNIT 1 (THERMOPACK STACK)			150		Half yearly
15	30	P.I. UNIT 1 (HGG STACK)			150		Half yearly

16	30	P.I. UNIT 2 (THERMOPACK STACK)			150		Half yearly
17	30	P.I. UNIT 2 (HGG STACK)			150		Half yearly
18	10.67	LWG # 3(MILLING)			150		Half yearly
19	13	Finishing Dust Collector (North) (Unit 1)			150		Half yearly
20	15	Finishing Dust Collector (Unit 2)			150		Half yearly
21	9.75	FINE SCREENING DUST COLLECTOR			150		Half yearly
22	29.29	Boiler (1.5 Ton & 2Ton) 2.0 Ton Running			800 at 12 % Co correction	1	Half yearly
23	30	Tunnel Kiln - 1 (Re- baking Furnace)			150	1	Half yearly
24	13	Finishing Unit - 3 (Dust Collector)			150		Half yearly
25	30	P.I. Unit - 3 (HGG Stack)			150		Half yearly
26	30	Tunnel Kiln - 2 (Re- baking Furnace)			150		Half yearly
27	30	P.I. Unit - 3 (Thermo- pack Stack)			150		Half yearly
28	30	New Extrusion Department Thermic Fluid Heater			150	1	Half yearly
29	34	New Extrusion IRICH Dust Collector			150		Half yearly
30	34	New Extrusion Main Dust Collector			150		Half yearly
31	12.5	New Extrusion Raymond Mill Dust Collector			150		Half yearly
32	15	New Extrusion Silo Dust Collector			150		Half yearly
33	8	New Extrusion IRICH (Troma) Scrubber System			150	1	Half yearly
34	18	Acheson Dust Collector			150		Half yearly
35	17	New Extrusion Scrap system Dust collector			150		Half yearly
36	15	Finishing Unit - 3 (South Side) Nipple Dust Collector			150		Half yearly

37	11.58	Finishing Unit – 2 Nipple line Dust Collector				150		Half yearly
38	10	R.H.-16 Stock Cleaning Machine Dust Collector				150		Half yearly
39	15	P.I.-2 Turning Machine Dust Collector				150		Half yearly
40	15	P.I.-3 Turning Machine Dust Collector				150		Half yearly



AEE & I/C

Durgapur R. O, WBPCB

Assistant Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

M. Dhanuka

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/WPAD - Cont(408)/98 (Pt-VII)

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 (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended 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 :

M/s. Graphite India Limited

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at existing factory premises
Sagarbanga, Durgapur, P.S. - Coke Oven, Dist - Paschim
Burdwan, Pin - 713211.

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/11/2023.

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.



For and on behalf of the State Board

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

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

ANNEXURE

Consent to M/s. Graphite India Limited
 for its unit at existing factory premises Sagarbanga, Durgapur,
P.S. - Coke Oven, Dist- Paschim Burdwan, Pin- 713211.

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 #4)	will remain same as
03	Pitch Impregnated, electrode	accorded in last CFO
04	is intermediate process of	(Sl. no. CO/10270) dt.
05	total finished product	04/06/2019.
06	52000 MTPA)	
07		
08		
09		
10		
11		
12		

02. The 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.
04. Daily discharge of domestic liquid effluent shall not exceed KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed KL. *as per existing facility*
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.)

Havali
 14/12/20
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

CO131904

Consent to M/s Graphite India Limited⁽³⁾
 for its unit at Sagarbanga, Durgapur, P.S. - Coke Oven, Dist- Paschim
Burdwan, Pin- 713211

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	Half-yearly
		Total Suspended Solids	Not to exceed: 100 mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/l.	

09. The Applicant falls in the Red. Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall 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 pits and boiler feed water → as per existing facility KL
 - Domestic purpose → _____ KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable → _____ KL
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable → _____ KL

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.


 14/12/20
 (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Continued.....

(4)

Consent to M/s. Graphite India Limitedfor its unit at existing factory premises - G. garbhanga, Durgapur,P.S. - Coke Oven, Dist - Paschim Bardwan, Pin - 713211

11. 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.
12. 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 facilitate 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 No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-1	30.5	P.I. Unit-4 (Thermopack Stack) with wet scrubber.			150	-			Half Yearly
S-2	35.8	P.I. Unit-4 (Preheater System).			150	-			-do-
S-3	8.5	D.G. Set (2x500 KVA) with acoustic enclosure & silencer.			150	1			-do-
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

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

H. H. H. H.
14/12/20
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Continued.....

CO131904

(5)

Consent to M/s Graphite India Limited.

for its unit at Saganbhangra, Durgapur, P.S. - Coke Oven, Dist - Paschim
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 :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	CBM Gas	15,4000 m ³ /month	P. I Unit #4
02			
03			
04			
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 off through 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 _{eq}
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.
21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. 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.)

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

continued.....

Consent to M/s. Graphite India Limited,
 for its unit at Sagarbanga, Durgapur, P.S.- Coke Oven, Dist- Paschim
Burdwan, Pin-713211

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. 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.
30. 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.
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.
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.
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.

Additional Conditions See Annexure.

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

Harshi
14/12/20
 Environmental Engineer (Gr.)
 W. B. Pollution 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

1. 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).
2. 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.
4. The unit shall comply the State Board direction issued vide memo no.1406-7/WPBD-Cont(408)/98(Part-VII) dated 02.12.2020 .
5. **The unit shall demolish the existing Pitch Impregnation Unit(PI#1) immediately and submit the report of same before the State Board.**
6. 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 – Electrode-52000 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

Mr. Dharmika
for records please. Jeyan

WEST BENGAL POLLUTION CONTROL BOARD



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

[Renewal]

Consent Letter Number ... CO.12.3373

Memo Number ... 1302-EP/PPBD-cont(408)/98 (Pt.-VII)

Date: 29/12/2021

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 amended 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:

Graphix India Limited
WEST BENGAL

Office/Head Office/City Office)

(hereinafter referred to as Applicant) for its unit located at P.O - Sagarbanga, Durgapur,
P.S - Coke Over, Paschim Bardhaman - 713211

(Detailed address of the manufacturing unit)

for a period from 01/01/2022 to 30/11/2023

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.

For and on behalf of the State Board

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

29/12/2021
Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board



ANNEXURE

Consent to Graphite India Limited
 for its unit at P.O- Sagarbanga, Durgapur, P.S- Coke Over,
Paschim Bardhaman- 713211

Conditions :

01. This Consent is valid for the ~~manufacture of~~ operation of new RH 24 section Baking Furnace (4 II)

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The 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.

04. Daily discharge of domestic liquid effluent shall not exceed KL.

05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 9.0 KL.

06. The Applicant shall discharge liquid effluent to DMC Nullah (place of discharge)
 through 01 (One) 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. Engr./Inv. Engr./Asst. Engr.)
 Environmental Engineer
 Durgapur Region
 West Bengal Pollution Control Board
 29/1/2021
 continued.....

Consent to ⁽³⁾ Graphite India Limited
 for its unit at P.O - Sagarbanga, Durgapur, P.S - Coke Oven,
Paschim Bardhaman - 713211

Table-I

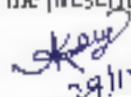
Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Mixed	pH	Between: 5.5 to 9.0	} <u>yearly</u>
		Total Suspended Solids	Not to exceed: 100 mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/l.	
WEST BENGAL				

09. The Applicant falls in the Category paying Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall 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 pits and boiler feed water → 50.00 KL
 (Water used for gardening should be included in this category of use)
- Domestic purpose → 10.00 KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable → - KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable → - KL

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.


 29/11/2024
 Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board
 Continued.....

(4)

Consent to Graphite India Limited
for its unit at P.O - Sagarshanga, Durgapur, P.S - Coke Oven,
Parachim Bardhaman - 713211

11. 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.
12. 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 facilitate 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 No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any);	Volume Nm ³ /hr.	Velocity of gas emission m/sec.	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-1	45m	1x Rf 24 Section Baking Furnace (#II)	—	—	150	1	—	—	Yearly
S-2	30m	Stack cleaning Machine	—	—	150	—	—	—	Yearly
S-3	* 11m	1x 500kVA D.W. ret	—	—	150	1	—	—	Yearly
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

* Height of the stack above the roof of D.W. ret room must be 5m.

(Member Secretary/Chief Engineer/Sr. Env. Eng. / Env. Eng. / Asst. Engineer)
 29/11/2014
 Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to Graphite India Limited
 for its unit at P.O- Sagarshanga, Durgapur, P.S- Coke Oven,
Paschim Bardhaman - 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 :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	CBM	87000 m ³ /month	1X RH 24 section Baking Furnace (#II)
02	HSD	-	1X 500 KwA D-G set
03			
04			
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

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 _{eq}
Day Time (06 a.m. to 10 p.m.)	75
Night Time (10 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.
21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. 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. Engr./ Env. Engr. / Asst. Engr. Engr.)

29/11/2024
 Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to Graphite India Limited
 for its unit at P.O- Sagarbanga Durgapur, P.S- Coke Oven,
Paschim Bardhaman - 713211

24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The Applicant shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. 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.
30. 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.
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.
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.
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.

Additional Conditions Annexure to Consent Letter no. CO10753A vide Memo no. 415-26-Co-R/2/0344 dated 22/11/2017.

(Deputy Secretary/Chief Engr. / Sr. Env. Engr. / Env. Engineering Officer)
 Durgapur Regional Office
 West Bengal Pollution Control Board



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. 114 /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

Sagarbanga, 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 Sagarbanga, Durgapur, P.S.: Coke Oven, Paschim Bardhaman-713211.

Details of Authorisation:

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (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 / Disposal to CHWTSDf. *	214.90
7.	35.3	Disposal to CHWTSDf. *	3.88

* 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:

[Signature]
[Chief Engineer]
West Bengal Pollution Control Board

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

A. General conditions of authorization:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. 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.
5. 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;
6. 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"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. 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.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. 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.
14. Annual return shall be filed by June 30th every year for the period ending 31st March of that year.

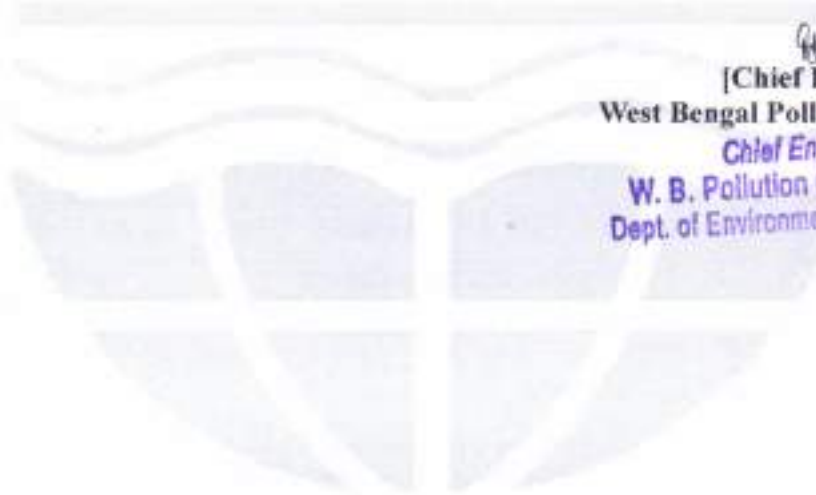
B. Specific conditions:

1. 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.
2. Waste containing oil (5.2), ETP sludge (35.3) and discarded asbestos (B1) shall be disposed to the CHWTSDF through Manifest system (Form-10).
3. 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.
6. 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.
7. 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.
8. Authorisation will be revoked in case of non-compliances with any of the above conditions.

M/s. Graphite India Limited
Sagarbhangra, 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.

**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

Vendor	216372	Tel No. : 9073313172	PO No	DGM/7600003322	Date 03.07.2023
ENVIRO SYSTEMS & EQUIPMENTS			PO Rev No		Date
34, AJAY NAGAR, PRIVATE ROAD,			Vendor's Ref	Refer Text	
KOLKATA			Our Ref	Refer Text	
700074 West Bengal			Payment Terms	45 Days after receipt of materials	
PAN No : AABFE8475E GSTN No - 19AABFE8475E1Z5			Incoterms	FOR GIL WORKS, DURGAPUR	

Sr No	Mat No	Description	UOM	Qty	Rate (INR)
1	70117660	C. Ambient Air Quality Monitoring System HSN No/SAC Code - 9027	PC	1.000	2,949,345.00
		Delivery Schedule Total Quantity by 10.09.2023			
2	70117661	LED Display-4' X 4', Red Colour HSN No/SAC Code - 9027	PC	1.000	276,521.00
		Delivery Schedule Total Quantity by 10.09.2023			
3	70117662	Gas Cylinder for Calibration HSN No/SAC Code - 9027	PC	1.000	92,173.00
		Delivery Schedule Total Quantity by 10.09.2023			
4	70117663	Porta Cabin with Accessories, 14'X14'X8' HSN No/SAC Code - 9027	PC	1.000	414,782.00
		Delivery Schedule Total Quantity by 10.09.2023			
5	70117664	Online Emission Monitoring System HSN No/SAC Code - 9027	PC	1.000	1,106,100.00
		Delivery Schedule Total Quantity by 10.09.2023			
6	70117665	Ultrasonic Flow Meter, Open Channel HSN No/SAC Code - 9027	PC	1.000	115,218.00
		Delivery Schedule Total Quantity by 10.09.2023			
7	70117666	PTZ IP Camera HSN No/SAC Code - 9027	PC	3.000	115,220.00
		Specification Refer Annexure enclosed herewith for detailed Technical Specifications, Scope of Supply & other terms, conditions etc. for above all items. Delivery Schedule			

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REGISTERED & H.Q. : 31 CHOWRINGHEE ROAD, KOLKATA-700016
CIN : U0101WB1974PLC094602

Telephone No. : +91-33-40029600 FAX : +91-33-40029676

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

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Authorised Signatory

PURCHASE ORDER

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/7600003322			Date	03.07.2023	
PO No Rev				Date		
Sr No	Mat No	Description	UOM	Qty	Rate (INR)	
		Total Quantity by			10.09.2023	
				FIFTY THREE LAKH Rupees ONLY		Total Value : 5,300,000.00
Other Item Charges						
Mat No.	Discount	CGST	SGST/UTGST	IGST	Tax Text	
Common for All		9.00 %	9.00 %		(GST Tax Credit (9% SGST & 9% CGST))	
Terms and Condition						
Delivery Instructions						
1. Annexure enclosed herewith shall be referred and applicable which shall form a part of this Purchase Order.						
2. 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.						
3. For G.I.L.'s internal reference only - W.B.S. No. DGP-0009-RH-PM-06-M.						
4. 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.						
5. 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.						
Notes: a. Please send scan copies of dispatch documents against each consignment immediately after dispatch from your Works. 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.						

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REGISTERED & H.O. : 31 CHOWRINGHEE ROAD, KOLKATA-700016
 CIN : L10101WB1974PLC094602
 Telephone No. : +91-33-40029800 FAX : +91-33-40029676
 E-mail Id : gilro@graphiteindia.com Website : www.graphiteindia.com

Handwritten signature: R. Chakrabarty
 Authorised Signatory

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05.2022**GRAPHITE INDIA LTD.**

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. i.e. 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.
- Performance Bank Guarantee to be issued by any of the Nationalised Bank only.
- Any type of Bank charges shall be to your A/c. i.e. no extra cost to G.I.L.
- 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.
- Full & final Settlement of the bill will be made only after the complete removal of man & machine from the Site.
- 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

- Please acknowledge the receipt of this Purchase Order, signifying your acceptance of Terms and Conditions hereof.
- 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.

3. NOTE:

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

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03/07/2023

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REGISTERED OFFICE : 31 CHOWRINGHEE ROAD, KOLKATA-700016
 CIN : L10101WB1974PLC094602
 Telephone No. : +91-33-40029600 FAX : +91-33-40029676
 E-mail id : giro@graphiteindia.com Website : www.graphiteindia.com

[Signature]
Authorised Signatory

PURCHASE ORDER

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/7800003322	Date	03.07.2023
PO No Rev		Date	

- D. 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 HAZAOURDOUS MATERIAL.
- I. make sure that your personnel who will be coming for the JOB ARE covered under P.F, Esi / Medclaim / 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 certfied 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 ahs 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 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

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REGISTERED & H.O. :31 CHOWRINGHEE ROAD, KOLKATA-700016
 CIN : L10101WB1974PLC094602
 Telephone No. : +91-33-40029600 FAX : +91-33-40029676
 E-mail Id : gilro@graphiteindia.com Website : www.graphiteindia.com

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 Authorised Signatory

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%,
- 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, 
- 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(W) x 400mm(D), 25kg.

Communication:

- Communication Port RS232, RS485,
- 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 fluorescence 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),
- Span Noise < 2.5 ppb,
- Lower Detectable limit < 0.5 ppb,
- Zero Drift (24 hours) < 1 ppb,
- Span Drift < 1% F.S.,
- Response Time < 80s (T90),
- Precision < 1%,
- Linearity < 1% F.S.,
- Sample Flow Rate 650 cc/min \pm 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 orifices 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 & It; 0.4 ppb,
- Zero Drift (24 hours) & It; 0.4 ppb,
- Span Drift & It; 1% F.S.,
- Response Time & It; 40s (T90),
- Precision & It; 1%,
- Linearity & It; 1% F.S.,
- Sample Flow Rate 500 cc/min \pm 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 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.

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b) CAAQM 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 NDIR 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

Measurement Principle	NDIR
Range	SPM 0 – 800mg/nM3 SO ₂ 0-500mg/nM3 NO ₂ 0-500mg/nM3
Detection Limit	0.1ppm
Zero drift	±2% FS
Span drift	±2% FS
Response	<90s
Analog Output Interface	4-20mA output for Scada based System
Digital Output Interface	SPCO output
Communication Interface	RS 232/RS485/4-20mA
Heat Tracing Temperature	50-200°C
Ambient Temperature	-10°C to 45°C
IP Code	IP65
Power Supply	230VAC, 50Hz
Compressor Air	Clean dry, oil free (dew point<-20degree) @ (0.5-0.7) MPa
Rated flow	200 L/min for back flow

In Site Measurement:

- SO_x, NO_x, (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.

- 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 & Modem 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: 220V 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.

f) 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 VAC,
- 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 Volts 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 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:

- i. 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.

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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.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.

4) Others:

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

5) References:

- 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 our H.O. on dated 30.06.2023.
- 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:

- Inspection, Testing etc. shall be done by G.I.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.
- G.I.L. shall be allowed for inspection of material and review of progress randomly at any time during Execution of the Purchase order.
- 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.
- 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.
- Irrespective of inspection criteria given above, it will be sole responsibility of the vendor to fulfill 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.
- 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 &

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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) Bills / 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.

11) 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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07/07/2023
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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 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.

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.

07/07/2023
Aptk.

Annexure - 4


ENVIROCHECK

 Recognised by MoEF&CC, WBPCB & JSPCB
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/I
		Report No.	: ENV/17/Aug./TR(A)/I/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Mixture Fume Extractor (North) (Stack - 1) (Extrusion 1 Dept.)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: --
Emission Due to	: Due to Process Activity While Mixing
Fuel Used	: Electrically Operated
Working Fuel Consumption	: N.A.
Pollution Control Device	: Nil
	Height of Stack (mtr.) (from G. L.) : 30.0
	Stack I.D. at sampling point (mtr.) : 0.72
	Height of sampling port (mtr.) (from G.L.) : 26.0
	Permanent Platform & Ladder : Yes

B. RESULTS

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

 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 :

 DR. JYOTI PAUL
 Quality Manager

Authorised Signatory :

 Dr. JYOTI PAUL
 Quality Manager

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 Branch Office : Siliguri * Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delhi
 Overseas : UAE * Qatar * Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/II	Report No.	: 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	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.406 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 & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Nil		

B. RESULTS

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


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 :



DR. JOY PAUL
Quality Manager

Authorised Signatory :



Dr. JOY PAUL
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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/III	Report No.	: ENV/17/Aug./TR(A)/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.550
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Due to Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Nil		

B. RESULTS

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

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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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/IV	Report No.	: ENV/17/Aug./TR(A)/IV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Raymond Mill Dust Collector (Extrusion 1 Dept.) (Stack - 6)		
Shape of Stack	: Square	Height of Stack (mtr.) (from G. L.)	: 16.0
Materials of 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 & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS


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

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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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/V
		Report No.	: ENV/17/Aug./TR(A)/V/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Scrap System Dust Collector (Extrusion 1 Dept.) (Stack – 7)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: --
Emission Due to	: Due to Process Activity
Fuel Used	: Electrically Operated
Working Fuel Consumption	: N.A.
Pollution Control Device	: Bag Filter
Height of Stack (mtr.) (from G. L.)	: 7.1
Stack I.D. at sampling point (mtr.)	: 0.6
Height of sampling port (mtr.) (from G.L.)	: 5.6
Permanent Platform & Ladder	: Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 17005.67	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 14.20	150.0


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 :



DR. JOYDIP CHATTERJEE
Dr. Quality Manager

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: 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 & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/VI	Report No.	: ENV/17/Aug./TR(A)/VI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Main Dust Collector (Extrusion 1 Dept.) (Stack – 8)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 22.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.70
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Due to Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

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

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 :



DR. JOYDIP CHATTERJEE
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Authorised Signatory :



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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/VII	Report No.	: ENV/17/Aug./TR(A)/VII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer Furnace (Baking Furnace) (14 section) (Stack No.12)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.80
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 10.5
Emission Due to	: Combustion of CBM and Baking of Electrode & Nipple		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 90 m ³ /hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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 ³ /hr.	IS : 11255 (Part III)	: 15825.52	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 64.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 53.80	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 46.81	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/VIII	Report No.	: ENV/17/Aug./TR(A)/VIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer Furnace (RH16 & RH24 – I Section) (Stack No.13)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 45.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.8
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 33.0
Emission Due to	: Combustion of CBM and Baking of Electrodes		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 170 m ³ /hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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 ³ /hr.	IS : 11255 (Part III)	: 93918.58	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 74.20	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 79.50	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 84.27	150.0


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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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/IX	Report No.	: ENV/17/Aug./TR(A)/IX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P. I. – Unit – 2 (Thermo Pack Stack) (Stack No.16)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.40
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 28.0
Emission Due to	: Combustion of CBM		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 70 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 67.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 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 ³ /hr.	IS : 11255 (Part III)	: 3369.80	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 69.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 76.20	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 62.58	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/X	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.40
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 28.0
Emission Due to	: Combustion of CBM		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 70 m ³ /hr.		
Pollution Control Device	: Water Spray Cooling Chamber		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 4138.92	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 50.20	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 58.50	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 56.01	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XI	Report No.	: ENV/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) (Stack No.19)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 13.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.7
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 4.2
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 25039.99	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 140.21	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XII	Report No.	: ENV/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.)	: 15.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.9
Capacity	: --	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 Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 32162.10	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 54.28	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XIII	Report No.	: ENV/17/Aug./TR(A)/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	Height of Stack (mtr.) (from G. L.)	: 9.75
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.56
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 6.7
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 15867.62	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 97.97	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XIV	Report No.	: 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	Height of Stack (mtr.) (from G. L.)	: 29.29
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.280
Capacity	: No.1 – 1.5 Ton & No.2 – 2 Ton	Height of sampling port (mtr.) (from G.L.)	: 13.50
Emission Due to	: Combustion of CBM		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 50 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 156.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.65	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1311.90	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 116.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 80.10	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.53	800.0


Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: 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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Overseas : UAE ■ Qatar ■ Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XV	Report No.	: ENV/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	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.73
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 18.0
Emission Due to	: Combustion of CBM		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 85 m ³ /hr.		
Pollution Control Device	: Incinerator		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 198.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 6.42	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 5997.81	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 96.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 81.20	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 77.65	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XVI	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.78
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 9.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.20	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 13661.35	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 25.65	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XVII	Report No.	: ENV/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
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.40
Capacity	: --	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 Consumption	: 60 m ³ /hr.		
Pollution Control Device	: Water Spray Cooling Chamber		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 42.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.51	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4377.15	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 72.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 51.20	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 30.59	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XVIII	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.40
Capacity	: --	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 Consumption	: 70 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 70.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.47	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3664.55	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 68.20	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 47.50	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 41.50	150.0


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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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XIX	Report No.	: ENV/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
Materials of 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
Emission Due to	: Combustion of CBM to Heat Treatment Field		
Fuel Used	: CBM	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 50 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 75.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 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 ³ /hr.	IS : 11255 (Part III)	: 6216.95	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 48.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 26.80	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 12.81	150.0

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 :



TERMINAL CERTIFICATION
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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XX	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.30
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 28.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 45.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.49	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1769.08	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 43.0	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXI	Report No.	: ENV/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)	Height of Stack (mtr.) (from G. L.)	: 34.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 1.0
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 33.0
Capacity	: --	Emission Due to	: Process Activity
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --	Pollution Control Device	: Bag Filter

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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)	: 10.47	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 27190.29	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 59.18	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXII	Report No.	: ENV/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) (Stack – 31)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 12.5
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.23
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 10.5
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 1292.92	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 85.57	150.0

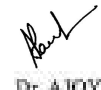
Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :



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Overseas : UAE * Qatar * Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXIII	Report No.	: ENV/17/Aug./TR(A)/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	Height of Stack (mtr.) (from G. L.)	: 15.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.60
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 7.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 12417.25	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 14.56	150.0

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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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXIV	Report No.	: 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 No.33)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 8.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.28
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 7.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Scrubber System		

B. RESULTS

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


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXV	Report No.	: ENV/17/Aug./TR(A)/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	Height of Stack (mtr.) (from G. L.)	: 18.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.8 x 0.32
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 10.5
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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)	: 14.77	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 13029.35	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 131.95	150.0

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

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXVI	Report No.	: ENV/17/Aug./TR(A)/XXVI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Scrap System Dust Collector (Extrusion # 2) (Stack – 35)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 17.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.65
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 8.9
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 18506.87	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 138.23	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXVII	Report No.	: ENV/17/Aug./TR(A)/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	Height of Stack (mtr.) (from G. L.)	: 45.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.6
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 33.0
Emission Due to	: Combustion of CBM		
Fuel Used	: CBM	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 120 m ³ /hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 95.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.35	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 64977.98	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 62.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 49.20	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 17.12	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXVIII	Report No.	: ENV/17/Aug./TR(A)/XXVIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing Unit – 3 (South Side) Nipple Dust Collector (Stack – 37)		
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.)	: 0.70
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 8.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 34.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.36	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 9842.07	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 78.94	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXIX	Report No.	: ENV/17/Aug./TR(A)/XXIX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH – 16, Stock Cleaning Machine Dust Collector (Stack No.39)		
Shape of Stack	: Rectangular	Height of Stack (mtr.) (from G. L.)	: 10.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.4 x 0.6
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 7.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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)	: 9.15	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 7397.79	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 41.87	150.0

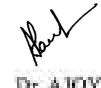
Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :



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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. - Sagarbhanga, Durgapur, Pin - 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 - 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXX	Report No.	: 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 Dust Collector (Stack No.40)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.65
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 7.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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)	: 7.51	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 8284.41	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 90.85	150.0

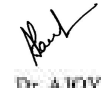
Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :



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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXI	Report No.	: ENV/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	: --	Height of sampling port (mtr.) (from G.L.)	: 3.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 1505.56	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 35.24	150.0

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

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXII	Report No.	: ENV/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 (Stack No.42)		
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	: --	Height of sampling port (mtr.) (from G.L.)	: 3.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	IS : 11255 (Part 3)	: 6.50	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1062.85	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 71.32	150.0

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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXIII	Report No.	: ENV/17/Aug./TR(A)/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	Height of Stack (mtr.) (from G. L.)	: 15.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.25
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 3.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 1082.53	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 83.17	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXIV	Report No.	: ENV/17/Aug./TR(A)/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)	Height of Stack (mtr.) (from G. L.)	: 30.5
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.95
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 18.8
Capacity	: --		
Emission Due to	: Combustion of C.B.M		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 100 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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 ³ /hr.	IS : 11255 (Part III)	: 10899.39	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 110.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 76.50	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 125.71	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXV	Report No.	: ENV/17/Aug./TR(A)/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
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.15
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 21.2
Emission Due to	: Combustion of C.B.M		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 60 m ³ /hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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)	: 5.18	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 18431.05	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 61.50	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 42.60	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 23.90	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXVI	Report No.	: ENV/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.)	: 22.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.48
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 10.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 5148.53	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 52.32	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXVII	Report No.	: ENV/17/Aug./TR(A)/XXXVII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer – 16 Jaw Crusher Machine 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 (mtr.)	: 0.80
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 6.4
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 42.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.45	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 12648.89	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 39.87	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 07.08.2023
		Period of Analysis	: 10.08.2023 – 11.08.2023
		Date of Issue	: 14.08.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXVIII
		Report No.	: ENV/17/Aug./TR(A)/XXXVIII/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer – 24 (I) Stock Cleaning Dust Collector (Stack No.48)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 10.67
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.300
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 4.57
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter with Cyclone Separator		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 2359.50	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 52.78	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXIX	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.25
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 Consumption	: --		
Pollution Control Device	: Bag Filter with Cyclone Separator		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 1972.65	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 43.75	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 09.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXX	Report No.	: ENV/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 Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.6
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 5.0
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 20114.48	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 27.37	150.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 07.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXI	Report No.	: ENV/17/Aug./TR(A)/XXXXI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing 4 – Electrode Line Dust Collector Stack (Stack – 51)		
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.)	: 0.95
Capacity	: 40,000 m ³ /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 Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 20245.77	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 23.55	30.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 07.08.2023
		Period of Analysis	: 10.08.2023 – 11.08.2023
		Date of Issue	: 14.08.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXII
		Report No.	: ENV/17/Aug./TR(A)/XXXXII/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing 4 – Nipple Line Dust Collector Stack (Stack – 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.)	: 0.85
Capacity	: 30,000 m ³ /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 Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 17735.53	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.12	30.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 07.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXIII	Report No.	: ENV/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.)	: 45.0
Materials of 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	: Combustion of C.B.M and Baking of Electrode & Nipple		
Fuel Used	: C.B.M	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 120 m ³ /hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 75.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 752.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.80	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 47217.68	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 54.80	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 46.50	N.A.
7.	Concentration of CO ₂	% (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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 25.87	30.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. - Sagarbhanga, Durgapur, Pin - 713211	Sampling Date	: 09.08.2023		
		Period of Analysis	: 10.08.2023 - 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXIV	Report No.	: ENV/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 Collector (Stack - 54)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 22.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.6
Capacity	: --	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 Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 9399.51	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 25.73	30.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 09.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXV	Report No.	: 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 Mechanical Dust Collector (Stack – 55)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 22.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.50
Capacity	: --	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 Consumption	: --		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 6091.20	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.10	30.0


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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 21.09.2023
		Period of Analysis	: 23.09.2023 – 23.09.2023
		Date of Issue	: 25.09.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/I
		Report No.	: ENV/93/Sep./TR(A)/1/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH – 24 (III) Stock Cleaning Mechanical Dust Collector (Stack No.55)	Height of Stack (mtr.) (from G. L.)	: 22.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.60
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 14.0
Capacity	: --		
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 11955.93	N.A.
5.	Concentration of O ₂ by Orsat	% (v/v)	EPA Method 3 : 2017	: 20.0	N.A.
6.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 9.54	30.0

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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 21.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/II	Report No.	: ENV/93/Sep./TR(A)/II/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing 4 – Nipple Dust Collector (Stack 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.)	: 0.85
Capacity	: 30,000 m ³ /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 Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 15992.83	N.A.
5.	Concentration of O ₂ by Orsat	% (v/v)	EPA Method 3 : 2017	: 20.0	N.A.
6.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 9.23	30.0

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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 21.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/III	Report No.	: ENV/93/Sep./TR(A)/III/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing 4 – Electrode Line Dust Collector (Stack No.51)		
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.)	: 0.85
Capacity	: 40,000 m ³ /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 Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 26917.49	N.A.
5.	Concentration of O ₂ by Orsat	% (v/v)	EPA Method 3 : 2017	: 20.0	N.A.
6.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 12.82	30.0

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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 22.09.2023
		Period of Analysis	: 23.09.2023 – 23.09.2023
		Date of Issue	: 25.09.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/IV
		Report No.	: ENV/93/Sep./TR(A)/IV/23-24
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH – 24 (III) – Jaw Crusher Dust Collector (Stack No.54)	Height of Stack (mtr.) (from G. L.)	: 22.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.6
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 14.0
Capacity	: --		
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 7972.51	N.A.
5.	Concentration of O ₂ by Orsat	% (v/v)	EPA Method 3 : 2017	: 20.0	N.A.
6.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 21.51	30.0

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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 22.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/V	Report No.	: ENV/93/Sep./TR(A)/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.)	: 0.25
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 Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 1869.45	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 68.51	150.0

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 :



DR. AJOY PAUL
Quality Manager

Authorised Signatory :



Dr. AJOY PAUL
Quality Manager

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Branch Office : Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 22.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/VI	Report No.	: ENV/93/Sep./TR(A)/VI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Mixture Fume Extractor (North) Extrusion Dept. (Stack No.1)				
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0		
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.72		
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 26.0		
Emission Due to	: Process Activity				
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes		
Working Fuel Consumption	: N.A.				
Pollution Control Device	: Bag Filter				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	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	Nm ³ /hr.	IS : 11255 (Part III)	: 19695.29	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 50.54	150.0

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 :



DR. AJOY PAUL
Quality Manager

Authorised Signatory :



Dr. AJOY PAUL
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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 22.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/VII	Report No.	: ENV/93/Sep./TR(A)/VII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Extrusion – 2, Scrap System Dust Collector (Stack No.35)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 17.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.65
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 8.9
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

B. RESULTS

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

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 :



DR. JOYDEEP CHAKRAVARTY
Dr. Quality Manager

Authorised Signatory :



Dr. AJOY PAUL
Quality Manager

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Overseas : UAE • Qatar • Netherlands

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 22.09.2023		
		Period of Analysis	: 23.09.2023 – 23.09.2023		
		Date of Issue	: 25.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/93/Sep./A/VIII	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)	Height of Stack (mtr.) (from G. L.)	: 45.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 1.6
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 30.0
Capacity	: --		
Emission Due to	: Process Activity		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 8.5	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 753.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.89	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 52052.39	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 80.56	N.A.
6.	Concentration of NO _x	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 47.43	N.A.
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 3.6	N.A.
8.	Concentration of O ₂ 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 Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 20.64	30.0

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 :



ENVIRONMENTAL CLAUDIA
By: Quality Manager

Authorised Signatory :



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Quality Manager

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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. No.	Stack Attached to	Stack No.	Fuel (Type & Quantity)	Inner dia (mm)	Height from ground (mm)	Height of sampling port from GL (mm)	Gas Temp. 0C	Flow Rate of gas NM3/hr	PM mg/NM ³	SO ₂ mg/NM ³	Nox mg/NM ³	CO ₂ (%)	Velocity (m/s)	Other Pollutants if any	Description of Air Pollution control devices if any
1	Mixture Fume Extractor (North) (Extrusion #1 Dept)	1	Electricity	720	30000	26000	44	20441.53	132.52	-	-	-	14.97	N.A.	Nil
2	Mixture Fume Extractor (South) (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				Production Unit Not In Operation						N.A.	Nil	
5	Fume Extractor (West side) weigh floor (Extrusion#1 Dept)	5	Electricity	780	30000	26000	Production Unit Not In Operation						N.A.	Bag Filter	
6	Raymond Mill Dust Collector (Extrusion#1 Dept)	6	Electricity	300x300	16000	7000	37	2556.40	8.50	-	-	-	8.27	N.A.	Bag Filter
7	Scrap System Dust Collector (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 Dept)	8	Electricity	700	22000	15000	31	24646.29	18.30	-	-	-	18.32	N.A.	Bag Filter
9	Baking Milling Dust Collector	9	-				RC Baking Unit Obsolete						N.A.	-	
10	Baking Furnace (Fee. 1 to 5 side)	10	-				RC Baking Unit Obsolete						N.A.	-	
11	Baking Furnace (Fee. 6 to 10 side)	11	-				RC Baking Unit Obsolete						N.A.	-	
12	Ried Hammer Furnace (Baking Furnace) (14 SECTION)	12	CBM	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 Furnace)(RH16 & RH24-I SECTION)	13	CBM	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 STACK)	16	CBM	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	CBM	400	30000	28000	45	4138.92	56.01	50.20	58.50	3.2	9.84	N.A.	Water spray Cooling Chamber
16	Finishing Dust Collector (North) (Unit 1)	19	Electricity	700	13000	4200	33	25039.99	140.21	-	-	-	18.76	N.A.	Bag Filter



ENVIROCHECK



Sl. No.	Stack Attached to	Stack No.	Fuel (Type & Quantity)	Inner dia (mm)	Height from ground (mm)	Height of sampling port from GL (mm)	Gas Temp. 0C	Flow Rate of gas NM3/hr	PM mg/NM ³	SO ₂	Nox mg/NM ³	CO ₂ (%)	Velocity (m/s)	Other Pollutants if any	Description of Air Pollution control 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 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 Running	22	CBM (86 m ³ /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 (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	CBM	400	30000	28000	42	4377.15	30.59	72.50	51.20	3.4	10.51	N.A.	Water Spray Cooling Chamber
23	Tunnel Kiln – 2 (Re-baking Furnace)	26	CBM (140 Kg./Hr.)	730	30000	18000	Production Unit Not In Operation						N.A.	Incinerator	
24	P.I. Unit – 3 (THERMOPACK STACK)	27	CBM	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 (138.4 Nm ³ /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 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 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) 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.H.-24 (II) Furnace	36	CBM (70 m ³ /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) Nipple Dust Collector	37	Electricity	700	15000	8000	34	9842.07	78.94	-	-	-	7.36	N.A.	Bag Filter



ENVIROCHECK



	Stack Attached to	Stack No.	Fuel (Type & Quantity)	Inner dia (mm)	Height from ground (mm)	Height of sampling port from GL (mm)	Gas Temp. 0C	Flow Rate of gas NM3/hr	PM mg/NM ³	SO ₂ mg/NM ³	Nox mg/NM ³	CO ₂ (%)	Velocity (m/s)	Other Pollutants if any	Description of Air Pollution control devices if any
35	Finishing Unit – 2 Nipple line Dust Collector	38	Electricity	610	11580	9140	Production Unit Not In Operation						N.A.	Bag Filter	
36	R.H.-16 Stock Cleaning Machine Dust Collector	39	Electricity	400 × 600	10000	7000	43	7397.79	41.87	-	-	-	9.15	N.A.	Bag Filter
37	R.H.-24 (II) Stock Cleaning 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.I.-2 Turning Machine Dust Collector	42	Electricity	250	15000	3000	46	1062.85	71.32	-	-	-	6.50	N.A.	Bag Filter
40	P.I-3 Turning Machine Dust Collector	43	Electricity	250	15000	3000	34	1082.53	83.17	-	-	-	6.37	N.A.	Bag Filter
41	P.I Unit- 4 (THERMOPACK STACK)	44	CBM (100 m ³ /Hr.)	950	30500	18800	138	10899.39	125.71	110.50	76.50	3.6	5.99	N.A.	Nil
42	P.I.-4 Pre-Heater	45	CBM (60 m ³ /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 Dust Collector	46	Electricity	480	22000	10000	32	5148.53	52.32	-	-	-	8.21	N.A.	Bag Filter
44	Ried Hammer-16 Jaw Crusher Dust Collector	47	Electricity	800	12000	6400	42	12648.89	39.87	-	-	-	7.45	N.A.	Bag Filter
45	R.H.-24 (I) Stock Cleaning Dust Collector	48	Electricity	300	10670	4570	40	2359.50	52.78	-	-	-	9.84	N.A.	Bag Filter With Cyclone Separator
46	Core Sampling Dust Collector	49	Electricity	250	6000	4500	35	1972.65	43.75	-	-	-	11.66	N.A.	Bag Filter With 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 Collector Stack	51	Electricity	950	17500	14000	32	20245.77	23.55	-	-	-	8.21	N.A.	Bag Filter
49	Finishing - 4, Nipple Line Dust 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 Collector	54	Electricity	600	22000	14000	43	9399.51	25.73	-	-	-	9.88	N.A.	Bag Filter
52	RH - 24 (III) Stock Cleaning Mechanical Dust Collector	55	Electricity	500	22000	14000	38	6091.20	24.10	-	-	-	9.07	N.A.	Bag Filter

Checked By: D. Chakraborty
 Dy. Quality Manager
 Envirocheck



Stamp

For, Envirocheck
 Dr. Ajoy Paul
 Quality Manager

Limit : SPM = 150 mg/Nm³, 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.

TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023 – 09.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXVI	Report No.	: ENV/17/Aug./TR(A)/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

1. Average Temperature (°C) : 28.0
2. 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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	56.32	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	89.11	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	19.07	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	38.77	80.0
5.	Concentration of CO	mg/m ³	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 :



PRIMAL CHAKRABORTY
By Quality Manager

Authorised Signatory :



Dr. AJAY PAUL
Quality Manager

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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023 – 09.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXVII	Report No.	: ENV/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 (°C) : 28.0
2. 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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	51.31	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	84.21	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	16.14	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	32.57	80.0
5.	Concentration of CO	mg/m ³	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 :



PRIMAL CHAKRABORTY
By Quality Manager

Authorised Signatory :



Dr. AJAY PAUL
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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 08.08.2023 – 09.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXVIII	Report No.	: ENV/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)
2. Duration of Sampling : 24 hrs. (11:00 a.m. – 11:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 753.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

C] RESULTS

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

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 03.08.2023 – 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXIX	Report No.	: ENV/17/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 (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	56.20	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	93.46	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	23.47	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	56.22	80.0
5.	Concentration of CO	mg/m ³	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.

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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 03.08.2023 – 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXX	Report No.	: ENV/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
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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	44.58	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	76.16	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	16.56	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.46	80.0
5.	Concentration of CO	mg/m ³	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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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 03.08.2023 – 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXI	Report No.	: ENV/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 (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	56.50	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	72.61	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	29.34	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	56.45	80.0
5.	Concentration of CO	mg/m ³	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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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 03.08.2023 – 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXII	Report No.	: ENV/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

1. Average Temperature (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	53.16	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	84.50	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	33.95	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	54.51	80.0
5.	Concentration of CO	mg/m ³	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 :



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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 03.08.2023 – 04.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXIII	Report No.	: ENV/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 (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	54.58	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	80.52	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	14.67	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	31.09	80.0
5.	Concentration of CO	mg/m ³	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 :



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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023 – 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXIV	Report No.	: ENV/17/Aug./TR(A)/XXXXXIV/23-24

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	51.25	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	80.46	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	12.57	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	30.01	80.0

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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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023 – 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXV	Report No.	: ENV/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

1. Average Temperature (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	44.62	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	81.50	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.73	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	29.46	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.38	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	20.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23 rd 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 :



REGIONAL CHIEF EXECUTIVE
By Quality Manager

Authorised Signatory :



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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Durgapur, Pin – 713211	Sampling Date	: 04.08.2023 – 05.08.2023		
		Period of Analysis	: 10.08.2023 – 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXVI	Report No.	: ENV/17/Aug./TR(A)/XXXXXVI/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

1. Average Temperature (°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. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	43.75	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	74.24	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.10	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	32.57	80.0
5.	Concentration of CO	mg/m ³	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 :



DIVYANSHU CHAKRABORTY
Sr. Quality Manager

Authorised Signatory :



Dr. AJOY PAUL
Quality Manager

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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. - Sagarbhanga, Durgapur, Pin - 713211	Sampling Date	: 05.08.2023 - 06.08.2023		
		Period of Analysis	: 10.08.2023 - 11.08.2023		
		Date of Issue	: 14.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/17/Aug./A/XXXXXVII	Report No.	: ENV/17/Aug./TR(A)/XXXXXVII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Center Location (Old Graphite Plant) (West Side of Shipping Unit -2)
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

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

H.O. **ENVIRONMENTAL DIAGNOSTICITY**
By Quality Manager
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<End of Report>



ENVIROCHECK



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

Max limit	Parameters in µg / m ³	Paramet ers in mg / m ³	Parameters in µg / m ³				Parameters in µg / m ³				Parameters in ng / m ³			Location	Direction wrt Plant Land	Close to			
			60	100	80	80	2	1	5	400	100	1	6				20		
LOCATION	Sampling Date	Sampling Time	PM2.5	PM10	SO ₂	NO ₂	CO	Pb	Benzene	NH ₃	Ozone	Benzo(a) Pyrene	As	Ni					
New Extrusion Campus																			
A	04.08.2023 to 05.08.2023	10:00 AM to 10:00 AM	43.80	74.20	11.20	32.50	0.30	-	-	-	-	-	-	-	Extrusion #2 Campus	East Side	Boundary wall		
								-	-	-	-	-	-						
Average			43.80	74.20	11.20	32.50	0.30	-	-	-	-	-	-						
B	08.08.2023 to 09.08.2023	10:00 AM to 10:00 AM	70.50	141.50	16.20	32.50	0.62	-	-	-	-	-	-	-	Graphite Old Plant	South Side	Outside Of Boundary wall		
								-	-	-	-	-	-						
Average			70.50	141.50	16.20	32.50	0.62	-	-	-	-	-	-						
C	04.08.2023 to 05.08.2023	09:10 AM to 09:10 AM	48.30	127.30	12.50	30.0	0.40	-	-	-	-	-	-	-	Extrusion#2 Campus	South Side	Boundary wall		
								-	-	-	-	-	-						
Average			48.30	127.30	12.50	30.00	0.40	-	-	-	-	-	-						
D	08.08.2023 to 09.08.2023	11:00 AM to 11:00 AM	53.20	80.50	14.10	34.20	0.48	-	-	-	-	-	-	-	Extension - 2 Plant	East Side	Outside Of Boundary wall		
								-	-	-	-	-	-						
Average			53.20	80.50	14.10	34.20	0.48	-	-	-	-	-	-						
E	04.08.2023 to 05.08.2023	09:30 AM to 09:30 AM	44.80	81.50	11.80	29.50	0.38	-	-	-	-	-	-	-	Extrusion#2 Campus	Center Location	Near New Road Weigh Bridge		
								-	-	-	-	-	-						
Average			44.80	81.50	11.80	29.50	0.38	-	-	-	-	-	-						
Graphite Old Plant Campus																			
F	03.08.2023 to 04.08.2023	09:30 AM to 09:30 AM	44.80	76.20	16.50	28.50	0.40	-	-	-	-	-	-	-	Near Personnel Office (Graphite)	West Side	Boundary wall		
								-	-	-	-	-	-						
Average			44.80	76.20	16.50	28.50	0.40	-	-	-	-	-	-						

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



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FORMAT NO. ENV/FM/53

TEST REPORT

• Name of Industry / Company / Factory / Office	: Graphite India Limited	• Report ID	: ENV/139/M/(TR)N/23-24
• Address	: P.O. - Sagarbhanga Colony District - Burdwan, Durgapur, Pin - 713211	• Reporting Date	: 14/08/2023
• Type of Industry	: Electrodes Manufacturing Unit	• Time of Duration of Noise	: 20 Minutes
• Sampling Plan & Procedure	: ENV/SOP/02	• Height from Ground Level	: 4 Feet.
• Deviation from the Sampling Method & Plan	: No		
• Type of Sample	: Noise Level Study		
• Sample ID	: ENV/139/M/N		
• Date of Study	: 08/08/2023		
• Method No.	: IS 15575 (Part 2), 2022		
• Sample Monitored by	: Mr. SubhasMondal		

RESULT OF NOISE LEVEL STUDY

Sl. No.	Location Name	dB (A) - (Noise Data)										Time (Hours)	Min dB (A)	Max dB (A)	Leq dB (A)	Limit in LeqdB(A)
		56.8	62.9	63.9	58.9	57.5	58.2	59.9	60.8	61.6	62.6					
1.	North Boundary Wall (Near 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 A.M (Day Time)	56.8	63.9	60.91	A. Industrial Area (Day Time – 75.0) (Night Time – 70.0)
2.	North Boundary Wall (Near Temple)	54.1	55.2	60.8	55.8	56.9	57.2	58.1	59.4	60.2	55.3	10:00 – 10:20 P.M (Night Time)	54.1	60.8	57.84	
3.	North Boundary Wall (Near 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 A.M (Day Time)	62.8	70.1	66.93	
4.	North Boundary Wall (Near 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 P.M (Night Time)	58.4	67.8	63.62	
5.	North Boundary Wall Back of LWG - 3	60.1	62.3	68.4	63.4	64.4	65.2	66.1	63.7	62.8	61.4	12:00 – 12:20 P.M (Day Time)	60.1	68.4	64.41	
6.	North Boundary Wall Back of LWG - 3	58.3	59.6	60.2	61.5	62.3	64.8	65.3	66.7	62.9	60.4	10:50 – 11:10 P.M (Night Time)	58.3	66.7	62.87	
7.	Centre of the Plant (Near P1 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 P.M (Day Time)	60.8	69.4	65.51	
8.	Centre of the Plant (Near P1 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 P.M (Night Time)	59.9	63.4	61.67	
9.	East Boundary Wall (Near 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 P.M (Day Time)	60.3	67.6	63.50	
10.	East Boundary Wall (Near LWG – 4)	61.2	61.7	62.3	60.5	59.9	58.6	60.0	61.3	62.4	60.7	12:05 – 12:25 A.M (Night Time)	58.6	62.4	61.00	
11.	West Boundary Well (Near 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 P.M (Day Time)	60.0	65.6	63.48	
12.	West Boundary Well (Near 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 A.M (Night Time)	57.5	63.2	60.88	
13.	South Boundary Wall (Near 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 P.M (Day Time)	60.5	66.1	63.36	
14.	South Boundary Wall (Near 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 A.M (Night Time)	57.6	62.5	60.52	



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Sl. No.	Location Name	dB (A) - (Noise Data)										Time (Hours)	Min dB (A)	Max dB (A)	L _{eq} dB (A)	Limit in LeqdB(A)
15.	South Boundary Wall Back of 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 P.M (Day Time)	61.7	68.4	65.53	A. Industrial Area (Day Time – 75.0) (Night Time – 70.0)
16.	South Boundary Wall Back of 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 A.M (Night Time)	61.4	68.5	65.45	
17.	South Boundary Wall Back of 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 P.M (Day Time)	60.9	66.8	63.80	
18.	South Boundary Wall Back of 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 A.M (Night Time)	59.4	64.3	62.41	
19.	Extrusion # 2 Centre of the Plant (Near New Weight 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 P.M (Day Time)	61.9	67.4	64.44	
20.	Extrusion # 2 Centre of the Plant (Near New Weight 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 A.M (Night Time)	53.8	61.5	58.65	
21.	Extrusion # 2 Area (East 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 P.M (Day Time)	61.9	68.4	65.88	
22.	Extrusion # 2 Area (East 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 A.M (Night Time)	55.2	62.8	60.19	
23.	Extrusion # 2 Area (North 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 P.M (Day Time)	64.3	69.4	67.46	
24.	Extrusion # 2 Area (North 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 A.M (Night Time)	59.9	65.0	62.81	
25.	Extrusion # 2 Area (South 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 P.M (Day Time)	60.8	67.5	64.53	
26.	Extrusion # 2 Area (South 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 A.M (Night Time)	60.4	65.3	63.10	
27.	Extrusion # 2 Area (West Boundary Wall)	63.4	64.4	66.9	65.5	62.8	61.9	60.6	63.3	63.9	62.2	5:30 – 5:50 P.M (Day Time)	60.6	66.9	63.85	
28.	Extrusion # 2 Area (West 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 A.M (Night Time)	51.4	57.5	54.76	

> End of Report <

** Mean of L _{eq} - Equivalent to Sound Energy	**Central Pollution Control Board, Ministry of Environment & Forests Government of India & Department of Environment, Government of West Bengal)	
	**Day Time is reckoned in between 6:00 A.M & 10:00 P.M	**Night Time is reckoned in between 10:00 P.M & 6:00 A.M
PERMISSIBLE NOISE 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	
1/16	111	
1/32	114	
(2 minutes or less)	-	

Reviewed By:

Authorized Signatory:

DURBADAL CHAKRABORTY
 Dy. Quality Manager

Dr. AJAY PAUL
 Quality Manager

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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



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 :		DAY TIME dB(A)			NIGHT TIME dB(A)		
		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

Checked By: D. Chakraborty
 Dy. Quality Manager
 Envirocheck



Stamp

For, Envirocheck
 Dr. Ajoy Paul
 Quality Manager



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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 09.08.2023-17.08.2023		
		Date of Issue	: 19.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: Collected Treated Water from Common Waste Water Recycling Unit of Outfall(Near LWG 4 & Old Weigh Bridge)	Sample condition	: Sealed	Sample ID	: ENV/11/Aug/W/I
Report No.	: ENV/11/Aug/TR(W)/I/23-24				

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

DURISADAL CHAKRABORTY
Dr. Quality Manager

Authorized Signatory:

Dr. AJOY PAUL
Quality Manager

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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 09.08.2023-17.08.2023		
		Date of Issue	: 19.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: Collected Water before entering Pre Treated Water from Common Waste Water Recycling Unit of Outfall(Near LWG 4 & Old Weigh Bridge)	Sample condition	: Sealed	Sample ID	: ENV/11/Aug/W/II
Report No.	: ENV/11/Aug/TR(W)/II/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.84	6.5 – 8.5
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	40.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	6.2	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	86.4	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	27.0	30.0
6.	Phenolic Compounds	APHA 23 rd Edition, 5530 phenols D: 2017	mg/l	0.75	1.0
7.	Sulfate	APHA 23 rd Ed., 4500 SO ₄ -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.

Reviewed By:


DURBADAL CHAKRABORTY
Dr. Quality Manager

Authorized Signatory:


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Overseas : UAE ■ Qatar ■ Netherlands



TEST REPORT

Name of the Industry	:	Graphite India Ltd.	Type of Industry	:	Graphite Unit			
Address	:	P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	:	04.08.2023			
	Period of Analysis		:	09.08.2023-17.08.2023				
	Date of Issue		:	19.08.2023				
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Industrial Effluent Water (Grab)
Location	:	Extrusion 2 (ETP Inlet)	Sample condition	:	Sealed	Sample ID	:	ENV/11/Aug/W/III
Report No.	:	ENV/11/Aug/TR(W)/III/23-24						

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.24
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	146.67
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	14.3
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	2380.8
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	608.0
6.	Phenolic Compounds	APHA 23 rd Edition, 5530 phenols D: 2017	mg/l	3.23
7.	Sulfate	APHA 23 rd Ed., 4500 SO ₄ -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:

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorized Signatory:

Dr. AJOY PAUL
Quality Manager



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	: 04.08.2023		
		Period of Analysis	: 09.08.2023-17.08.2023		
		Date of Issue	: 19.08.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: Extrusion 2 (ETP Outlet)	Sample condition	: Sealed	Sample ID	: ENV/11/Aug/W/IV
Report No.	: ENV/11/Aug/TR(W)/IV/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.93	6.5 – 8.5
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	20.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.2	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	67.2	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	26.0	30.0
6.	Phenolic Compounds	APHA 23 rd Edition, 5530 phenols D: 2017	mg/l	0.28	1.0
7.	Sulfate	APHA 23 rd Ed., 4500 SO ₄ -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
Dy. Quality Manager

Authorized Signatory:

Dr. AJOY PAUL
Quality Manager

<End of Report>

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	:	Graphite India Ltd.	Type of Industry	:	Graphite Unit			
Address	:	P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	:	04.09.2023			
			Period of Analysis	:	16.09.2023-21.09.2023			
			Date of Issue	:	23.09.2023			
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Industrial Effluent Water (Grab)
Location	:	Recycling Plant ETP Inlet (Extrusion-I)	Sample condition	:	Sealed	Sample ID	:	ENV/19/Sep/W/I
Report No.	:	ENV/19/Sep/TR(W)/I/23-24						

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.74
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	110.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	12.3
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	813.12
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	183.0

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:

DURBADAL CHAKRABORTY
Dr. Quality Manager

Authorized Signatory:

Dr. AJAY PAUL
Quality Manager

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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	:	Graphite India Ltd.	Type of Industry	:	Graphite Unit			
Address	:	P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	:	04.09.2023			
			Period of Analysis	:	16.09.2023-21.09.2023			
			Date of Issue	:	23.09.2023			
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Industrial Effluent Water (Grab)
Location	:	Recycling Plant ETP Outlet (Extrusion-I)	Sample condition	:	Sealed	Sample ID	:	ENV/19/Sep/W/II
Report No.	:	ENV/19/Sep/TR(W)/II/23-24						


SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.75	6.5 – 8.5
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	20.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.2	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	67.76	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	25.0	30.0

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:


DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorized Signatory:


Dr. AJOY PAUL
Quality Manager

<End of Report>

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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd.	Type of Industry	: Graphite Unit		
Address	: P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	: 04.09.2023		
		Period of Analysis	: 16.09.2023-21.09.2023		
		Date of Issue	: 23.09.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: ETP Inlet(Extrusion-2)	Sample condition	: Sealed	Sample ID	: ENV/18/Sep/W/I
Report No.	: ENV/18/Sep/TR(W)/I/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.82
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	120.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	14.2
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	871.2
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	212.0
6.	Phenolic Compounds	APHA 23 rd Edition, 5530 phenols D: 2017	mg/l	1.23
7.	Sulfate	APHA 23 rd Ed., 4500 SO ₄ -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:


DURADAL CHATTERJEE
Dy. Quality Manager

Authorized Signatory:


Dr. AJOY PAUL
Quality Manager



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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	:	Graphite India Ltd.	Type of Industry	:	Graphite Unit			
Address	:	P.O. – Sagarbhanga, Paschim Bardhaman Durgapur, Pin – 713211	Sampling Date	:	04.09.2023			
			Period of Analysis	:	16.09.2023-21.09.2023			
			Date of Issue	:	23.09.2023			
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Industrial Effluent Water (Grab)
Location	:	ETP Outlet(Extrusion-2)	Sample condition	:	Sealed	Sample ID	:	ENV/18/Sep/W/II
Report No.	:	ENV/18/Sep/TR(W)/II/23-24						

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.75	6.5 – 8.5
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	30.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	4.2	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	77.44	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	26.0	30.0
6.	Phenolic Compounds	APHA 23 rd Edition, 5530 phenols D: 2017	mg/l	0.10	1.0
7.	Sulfate	APHA 23 rd Ed., 4500 SO ₄ -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:

<End of Report>

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ENVIROCHECK



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	
1	Collected Treated Water from Common Waste Water Recycling Unit of Outfall LWG # 4 & Old Weigh Bridge	04.08.2023	10:10 AM	pH (at 26°C)	6.86	
				TSS	30.0	
				COD	76.80	
				BOD	25.0	
				Oil & Grease	4.10	
2	Collected Pretreated Water from Common Waste Water Recycling Unit of Outfall LWG # & Old Weigh Bridge	04.08.2023	10:25 AM	pH (at 27°C)	6.84	
				TSS	40.0	
				COD	86.40	
				BOD	27.0	
				Oil & Grease	6.20	
3	Extrusion #1 Recycling Plant ETP Inlet	04.09.2023	12:25 PM	pH (at 26°C)	6.74	
				TSS	110.0	
				COD	813.12	
				BOD	183.0	
				Oil & Grease	12.30	
4	Extrusion #1 Recycling Plant ETP Outlet	04.09.2023	12:45 PM	pH (at 27°C)	6.75	
				TSS	20.0	
				COD	67.76	
				BOD	25.0	
				Oil & Grease	3.20	
5	Extrusion #2 ETP Outlet	04.08.2023	11:00 AM	pH (at 26°C)	6.93	
				TSS	20.0	
				COD	67.20	
				BOD	26.0	
				Oil & Grease	3.20	
	Extrusion #2 ETP Outlet	04.09.2023	11:50 AM	11:50 AM	pH (at 27°C)	6.75
					TSS	30.0
					COD	77.44
					BOD	26.0
					Oil & Grease	4.20
6	Extrusion #2 ETP Inlet	04.08.2023	10:45 AM	pH (at 27°C)	6.24	
				TSS	146.67	
				COD	2380.80	
				BOD	608.0	
				Oil & Grease	14.30	
	Extrusion #2 ETP Inlet	04.09.2023	11:35 AM	11:35 AM	pH (at 27°C)	6.82
					TSS	120.0
					COD	871.20
					BOD	212.0
					Oil & Grease	14.20


 Checked By: D. Chakraborty
 Dy. Quality Manager
 Envirocheck



Stamp


 Approved By: Dr. Ajoy Paul
 Quality Manager
 Envirocheck

WORK ZONE AIR, NOISE LEVEL, ILLUMINATION & VENTILATION MONITORING REPORT OF

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.

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INDICATIVE CONSULTANT INDIA

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.



INDICATIVE CONSULTANT INDIA

2

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 TWVA (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 under Factories Act, 1948: Section 36



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevypur, Kharjanchak
Haldia, Purba Medinipur-721602

Govt.Regn.No.-I-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30 Table No. - 1

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Mob - 94340 17584
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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 : **EXTRUSION #I PRESS FLOOR**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #I PRESS FLOOR	Suspended Particulate Matter	04.08.2023	See Annexure-1	3	1.045 1.011 0.958	1.005	10.0	See Annexure-1	3	-	Below PEL	<i>Tajam K. Saha</i>	SUTRADHAR
		Respirable Particulate Matter			3	0.425 0.439 0.411	0.425	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.018 0.023 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.039 0.043 0.040	0.041	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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Form No. - 30

Table No. - 2

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. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #1 WEIGH FLOOR	Suspended Particulate Matter	04.08.2023	<i>See Annexure-1</i>	3	1.102 1.059 1.015	1.059	10.0	<i>See Annexure-1</i>	3	-	Below PEL	<i>T. SUTRADHAR</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	0.325 0.311 0.303	0.313	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:50 AM to 04:50 PM		3	0.018 0.023 0.019	0.020	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.035	0.038	6.0		3	-	Below PEL		

• PEL – Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbatu Gola
 Authorized Signatory



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Form No. - 30 Table No. - 3

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*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #1 MIXER FLOOR	Suspended Particulate Matter	04.08.2023	See Annexure-1	3	1.085 1.012 0.985	1.027	10.0	See Annexure-1	3	-	Below PEL	T. SUTRADHAR	T. SUTRADHAR
		Respirable Particulate Matter			3	0.245 0.314 0.276	0.278	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:15 AM to 05:15 PM		3	0.018 0.021 0.019	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.040 0.035	0.037	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
Authorized Signatory



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Form No. - 30 Table No. - 4

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. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #1 COOLER FLOOR	Suspended Particulate Matter	05.08.2023	See Annexure-1	3	1.105 1.122 1.069	1.099	10.0	See Annexure-1	3	-	Below PEL	<i>Tapan Kumar</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	0.485 0.474 0.463	0.474	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:00 AM to 04:00 PM		3	0.018 0.025 0.029	0.024	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.039	0.040	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
Parbati Ghosh
Authorized Signatory
INDICATIVE CONSULTANT INDIA
Consultant
Surveyor & Project
Estimation
Haldia
4/28

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Form No. - 30 Table No. - 5

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 Annexure-I*
3. Particular of Sampling:

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #2 PRESS FLOOR	Suspended Particulate Matter	05.08.2023	See Annexure-1	3	0.939 0.957 0.926	0.941	10.0	See Annexure-1	3	-	Below PEL	T. SUTRADHAR	T. SUTRADHAR
		3			0.327 0.365 0.348	0.347	5.0	3		-	Below PEL			
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.015 0.023 0.018	0.019	5.0		3	-	Below PEL	S. CHATTARAI	
		Nitrogen Dioxide			3	0.040 0.043 0.038	0.040	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati G. Ghosh
Authorized Signatory



P 5/25

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 6

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 Annexure-1*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	EXTRUSION #2 14MT. FLOOR	Suspended Particulate Matter	05.08.2023	<i>See Annexure-1</i>	3	1.387 1.355 1.336	1.359	10.0	<i>See Annexure-1</i>	3	-	Below PEL	<i>[Signature]</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	0.650 0.690 0.612	0.651	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.018 0.026 0.021	0.022	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.036	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
Parbati Ghosh
Authorized Signatory



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Form No. - 30


Table No. - 7

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 :

Sl. No.	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Sample	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	FINISHING UNIT # 4	Suspended Particulate Matter	07.08.2023	See Annexure-1	3	1.185 1.146 1.122	1.151	10.0	See Annexure-1	3	-	Below PEL		T. SUTRADHAR
		Respirable Particulate Matter			3	0.587 0.566 0.538	0.564	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:00 AM to 04:00 PM		3	0.018 0.024 0.021	0.021	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.039 0.043 0.034	0.039	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Purbati
Authorized Laboratory



P 7/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30

Table No. - 8

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)(c) 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*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (In block letters)
					No of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	BAKING BAKING RH 16 SHOP FLOOR	Suspended Particulate Matter	07.08.2023	See Annexure-1	3	2.215 2.292 2.247	2.251	10.0	See Annexure-1	3	-	Below PEL	<i>Tapan K...</i>	T MITRA HAR
		Respirable Particulate Matter			3	0.862 0.878 0.841	0.860	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:20 AM to 04:20 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.044 0.039	0.040	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbat
Authorized Signatory



P 8/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30


Table No. - 9

Result of Analysis of : **M/s. GRAPHITE INDIA LTD.,**

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

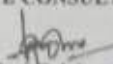
Register Containing Particulars of monitoring of Work Environment required Under Section 7-A(2)(e) of the Act.

1. Name of the Department/Plant : **BAKING RH 24 (I) SHOP FLOOR**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particular of Sampling :

Sl. No.	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	BAKING RH 24 (I) SHOP FLOOR	Suspended Particulate Matter	07.08.2023	See Annexure-1	3	2.124 2.216 2.198	2.179	10.0	See Annexure-1	3	-	Below PEL		SUTRAJHI AR
		Respirable Particulate Matter			3	1.087 1.114 1.068	1.090	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:45 AM to 04:45 PM		3	0.018 0.021 0.016	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.043 0.035	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


Parbati Goyal
Authorized Signatory



P 9/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 10

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 :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	BAKING TUNNEL KILN SHOP	Suspended Particulate Matter	08.08.2023	See Annexure-1	3	2.514 2.622 2.458	2.531	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	T SUTRADHAR
		Respirable Particulate Matter			3	1.547 1.633 1.498	1.559	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:10 AM to 04:10 PM		3	0.019 0.024 0.018	0.020	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.040 0.044 0.039	0.041	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Purbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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Form No. - 30


Table No. - 11

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*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	PITCH IMPREGNATION UNIT # 2 SHOP	Suspended Particulate Matter	08.08.2023	See Annexure-1	3	2.587 2.516 2.453	2.519	10.0	See Annexure-1	3	-	Below PEL		SUTRADHAR
		Respirable Particulate Matter			3	1.202 1.175 1.153	1.177	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.016 0.020 0.015	0.017	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.041 0.034	0.037	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Gola
Authorized Signatory



P 11/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30

Table No. - 12

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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(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 :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Sample	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	PITCH IMPREGNATION UNIT # 3 SHOP	Suspended Particulate Matter	08.08.2023	See Annexure-1	3	2.074 2.112 2.029	2.072	10.0	See Annexure-1	3	-	Below PEL	S. CHATTERJEE	S. CHATTERJEE
		Respirable Particulate Matter			3	0.885 0.927 0.905	0.906	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.018 0.022 0.016	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.041 0.035	0.037	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Chatterjee
Authorizing Signatory



P 12/28

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Form No. - 30

Table No. - 13

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 :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	BAKING RH # 24 (III)	Suspended Particulate Matter	09.08.2023	See Annexure-1	3	2.124 2.033 2.014	2.057	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	SUTRADHAR
		Respirable Particulate Matter			3	0.874 0.837 0.811	0.841	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:15 AM to 04:15 PM		3	0.015 0.019 0.014	0.016	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.033 0.035 0.031	0.033	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati
 Authorized Signatory



P 13/23

INDICATIVE CONSULTANT INDIA

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Form No. - 30

Table No. - 14

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*
3. Particular of Sampling :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	LWG # 3 SHOP	Suspended Particulate Matter	09.08.2023	See Annexure-1	3	2.335 2.387 2.345	2.356	10.0	See Annexure-1	3	-	Below PEL	SUTRA DHAR	S. CHATTARAJ
		Respirable Particulate Matter			3	1.138 1.144 1.163	1.148	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:40 AM to 04:40 PM		3	0.018 0.020 0.016	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.035 0.038 0.033	0.035	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory



14/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30

Table No. - 15

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*
3. Particular of Sampling :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Sample	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	LWG # 4 SHOP	Suspended Particulate Matter	09.08.2023	<i>See Annexure-1</i>	3	1.852 1.745 1.637	1.745	10.0	<i>See Annexure-1</i>	3	-	Below PEL	<i>Tapan K. Sarkar</i>	T. SUTRADHAR AI
		Respirable Particulate Matter			3	0.768 0.804 0.746	0.773	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.016 0.019 0.015	0.017	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.036	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 16

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*
3. Particular of Sampling :

Sl. No.	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	LWG # 5 SHOP	Suspended Particulate Matter	10.08.2023	See Annexure-1	3	1.515 1.627 1.558	1.567	10.0	See Annexure-1	3	-	Below PEL	Tadon K...	SUTRASHI AK
		Respirable Particulate Matter			3	0.685 0.644 0.673	0.667	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:10 AM to 04:10 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide	3		0.042 0.045 0.041	0.043	6.0	3		-	Below PEL			

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbat Goyal
Parbat Goyal
Authorized Signatory



P 16/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 17

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*
3. Particular of Sampling :

SL No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	FINISHING # 1 SHOP FLOOR	Suspended Particulate Matter	10.08.2023	See Annexure-1	3	2.232 2.249 2.214	2.232	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	1.135 1.147 1.112	1.131	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:40 AM to 04:40 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.035 0.039 0.036	0.037	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Gogoi
 Authorized Signatory



P 17/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 18

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*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	FINISHING # 2 SHOP FLOOR	Suspended Particulate Matter	10.08.2023	See Annexure-1	3	2.254 2.225 2.207	2.229	10.0	See Annexure-1	3	-	Below PEL	T. SUTRADHAR	S. CHATTA RAJ
		Respirable Particulate Matter			3	1.358 1.324 1.305	1.329	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:10 AM to 05:10 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.041 0.036	0.038	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Colui
Authorized Signatory



P 18/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 19

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 Annexure-1*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (ug/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	FINISHING # 3 SHOP FLOOR	Suspended Particulate Matter	11.08.2023	See Annexure-1	3	2.587 2.485 2.564	2.545	10.0	See Annexure-1	3	-	Below PEL	<i>Tarun K. Singh</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	1.241 1.224 1.115	1.193	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:00 AM to 04:00 PM		3	0.018 0.021 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.043 0.037	0.039	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



P 19/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 20

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 :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	GRAPHITE FINES SCREENING SHOP	Suspended Particulate Matter	11.08.2023	See Annexure-1	3	3.074 3.033 3.027	3.051	10.0	See Annexure-1	3	-	Below PEL	<i>Tarun K. Saha</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	1.587 1.625 1.611	1.608			5.0	3	-		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.037	0.039	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Purbati Ghosh
 Authorized



P 20/28

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Form No. - 30

Table No. - 21

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)(c) 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. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	CANTEEN (KITCHEN AREA)	Suspended Particulate Matter	11.08.2023	See Annexure-1	3	1.145 1.132 1.117	1.131	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	0.658 0.697 0.674	0.676	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.018 0.020 0.017	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.041 0.037	0.039	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Ghosh
 Authorized Signatory



P 21/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 22

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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 : **RH - 24 (II)**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particular of Sampling :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	RH - 24 (II)	Suspended Particulate Matter	12.08.2023	See Annexure-1	3	1.287 1.275 1.263	1.275	10.0	See Annexure-1	3	-	Below PEL	T. SUTRADHAR	AJ
		Respirable Particulate Matter			3	0.741 0.732 0.714	0.729	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:10 AM to 04:10 PM		3	0.018 0.022 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.042 0.035	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Gola
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 23

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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 : **PITCH IMPREGNATION UNIT # 4**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particulars of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	PITCH IMPREGNATION UNIT # 4	Suspended Particulate Matter	12.08.2023	See Annexure-1	3	2.587 2.622 2.548	2.586	10.0	See Annexure-1	3	-	Below PEL	<i>T. SUTRASHI</i>	T SUTRASHI AR
		Respirable Particulate Matter			3	1.287 1.266 1.247	1.267	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:25 AM to 04:25 PM		3	0.018 0.020 0.017	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.041 0.036	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

ADW
 Parbati Choudhary
 Authorized Signatory

P-23/28

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Form No. - 30


Table No. - 24

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 No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)		
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure					
1.	LWG UNIT # 4 AUTO DUST BAGGING AREA (DURING BAGGING)	Suspended Particulate Matter	12.08.2023	See Annexure-1	3	3.784 3.745 3.697	3.742	10.0	See Annexure-1	3	-	Below PEL		T. SUTRADHAR		
		Respirable Particulate Matter			3	1.874 1.751 1.682	1.769			5.0	3	-			Below PEL	
		Sulphur Dioxide	08:50 AM to 04:50 PM		3	0.018 0.020 0.015	0.018	5.0		3	-	Below PEL			8	S. CHATTA RAJ
		Nitrogen Dioxide	3		0.042 0.045 0.041	0.043	6.0	3		-	Below PEL					

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



P 24/28

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Form No. - 30

Table No. - 25

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 Annexure-1*
3. Particular of Sampling :

Sl No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	STORE SHOP FLOOR	Suspended Particulate Matter	14.08.2023	See Annexure-1	3	3.254 3.215 3.187	3.219	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	SUTRADH AR
		Respirable Particulate Matter			3	2.122 2.147 2.069	2.113	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:00 AM to 04:00 PM		3	0.016 0.022 0.017	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide	3		0.036 0.042 0.034	0.037	6.0	3		-	Below PEL			

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Ghosh
 Authorized Signatory



P 25/28

INDICATIVE CONSULTANT INDIA

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Form No. - 30 Table No. - 26

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)(c) of the Act.

1. Name of the Department/Plant : **MAINTANANCE SHOP FLOOR**
2. Raw materials, by-products and finished products : *See Annexure-1*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	MAINTANANCE SHOP FLOOR	Suspended Particulate Matter	14.08.2023	See Annexure-1	3	3.114 3.059 3.206	3.126	10.0	See Annexure-1	3	-	Below PEL	<i>Tajam K. Saha</i>	T. SUTRAJHI AR.
		Respirable Particulate Matter			3	1.658 1.744 1.583	1.662	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:20 AM to 04:20 PM		3	0.016 0.022 0.015	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.042 0.035	0.038	6.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Chakraborty
 Authorized Signatory



P 26/28

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
Haldia, Purba Medinipur-721602
Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph: 03224-275765

Mob - 94340 17584

e-mail : jayant@sarkar67@gmail.com/
indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 27

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*
3. Particular of Sampling :

Sl. No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	LWG #5 AUTO DUST BAGGING AREA (DURING BAGGING)	Suspended Particulate Matter	14.08.2023	See Annexure-1	3	3.625 3.847 3.526	3.666	10.0	See Annexure-1	3	-	Below PEL	<i>T. Sutradhar</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	2.125 2.048 2.167	2.113	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:50 AM to 04:50 PM		3	0.016 0.023 0.018	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide	3		0.035 0.042 0.036	0.038	6.0	3		-	Below PEL			

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati G...
Authorized Signatory



P 27/28

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia, Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 28

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 No	Location / Operation Monitoring	Identified Contaminant	Date & Time of Monitoring	Sampling Instrument Used	Airborne Contamination			TWA Concentration as given in 2 nd Schedule (mg/M ³)	Reference Method	Number of workers exposed at the location being monitored		Remark	Signature of person taking Samples	Name (in block letters)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	GRAPHITE ACHESAN SHOP	Suspended Particulate Matter	09.08.2023	See Annexure-1	3	3.145 3.035 3.044	3.075	10.0	See Annexure-1	3	-	Below PEL	<i>T. SUTRADHAR</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	1.895 1.955 1.927	1.926	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:15 AM to 04:15 PM		3	0.015 0.025 0.019	0.020	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.043 0.034	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



P 28/28

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 1

Ph - 03224-275763

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

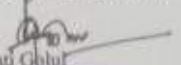
RESULT OF WORK ZONE MONITORING:-

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 / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act : 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)
BAKING RH # 24 (III)	Methyl Alcohol (as CH ₃ OH)	14.08.2023	<0.1	260	See Annexure-1	Below PEL		A. BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	09:10 AM to 05:10 PM	<0.05	9		Below PEL		S. CHATTARAJ
	Benzene (as C ₆ H ₆)		<0.05	20		Below PEL		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		Below PEL		

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


 Parbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602

Form No. - 30

Table No. - 2

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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 sampler

Location / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act : 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)
RIED HAMMER 24 (I) SECTION SHOP	Methyl Alcohol (as CH ₃ OH)	07.08.2023	<0.1	260	See Annexure-1	Below PEL		A. BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	08:45 AM to 04:45 PM	<0.05	9		Below PEL		S. CHATTARAJ
	Benzene (as C ₆ H ₆)	<0.05	20	Below PEL				
	Toluene (as C ₆ H ₅ CH ₃)	<0.05	375	Below PEL				

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


Parbati Ghosh
Authorized Signatory



P. 2/6

INDICATIVE CONSULTANT INDIAHPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602
Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 3

Ph. 03224-275765

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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 / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act : 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)
BAKING TUNNEL KILN SHOP	Methyl Alcohol (as CH ₃ OH)	08.08.2023	<0.1	260	See Annexure-1	Below PEL		A. BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	08:10 AM to 04:10 PM	<0.05	9		Below PEL		S. CHATTARAJ
	Benzene (as C ₆ H ₆)	<0.05	20	Below PEL				
	Toluene (as C ₆ H ₅ CH ₃)	<0.05	375	Below PEL				

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


 Parbati Gola
 Authorized Signatory


P-3/6

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. - 50

Table No. - 4

Ph. 92224-27290

Mob. - 94348 17264



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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 / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act : 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)
P.L UNIT - 2 SHOP	Methyl Alcohol (as CH ₃ OH)	08.08.2023	<0.1	260	See Annexure-1	Below PEL		A BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	08:30 AM to 04:30 PM	<0.05	9		Below PEL		S CHATTARAJ
	Benzene (as C ₆ H ₆)		<0.05	20		Below PEL		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		Below PEL		

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



P.46

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 5

Ph: 93274-273765

Mob: - 94180 17264



e-mail: jayantarkar67@gmail.com/indicativeconsultantindia@gmail.com

M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

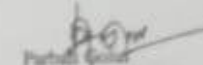
RESULT OF WORK ZONE MONITORING:-

1. Name of the Department/Plant: **ACHESON FURNACE SHOP**
2. Raw materials, by-products and finished products: -
3. Particular of Sampling: - Respirable dust sampler

Location / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)
ACHESON FURNACE SHOP	Methyl Alcohol (as CH ₃ OH)	09.08.2023	<0.1	260	See Annexure-1	Below PEL		A. BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	08:15 AM to 04:15 PM	<0.05	9		Below PEL		S. CHATTERJEE
	Benzene (as C ₆ H ₆)		<0.05	20		Below PEL		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		Below PEL		

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


 Purush Chatterjee
 Authorized Signatory



P 58

INDICATIVE CONSULTANT INDIA

HPI, Link Road, Basudevpur, Khanjanchuk, Haldia, Purba Medinipur-721602
 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0009228

Form No. - 39

Table No. - 5

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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: **LWG - 4 SHOP**
2. Raw materials, by-products and finished products: -
3. Particular of Sampling: - Respirable dust sampler

Location / Operation monitoring	Identified contaminants	Date & Time of Monitoring	Air Contaminants	TWA Concentration as given in Factory's Act 2 nd Schedule (mg/M ³)	Sampling Instrument used and Reference method	Remark	Signature	Name (in block letters)	
LWG - 4 SHOP	Methyl Alcohol (as CH ₃ OH)	09.08.2023	<0.1	260	See Annexure-1	Below PEL		A. BHATTACHARYA	
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL			
	Formic Acid (as HCOOH)	09:00 AM to 05:00 PM	<0.05	9		Below PEL			S. CHATTARAJ
	Benzene (as C ₆ H ₆)		<0.05	20		Below PEL			
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		Below PEL			

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA


 Parbat Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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Form No. - 30

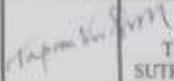

Table No. - 1

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #1 MIXER FLOOR	Noise level Monitoring	08.08.2023	09:40 AM	Annexure-1	82.4	82.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.9							
						82.6							
						83.2							
						82.4							
						83.0							
						83.1							
						84.2							
						82.8							
83.0													
												S. CHATTA RAI	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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 e-mail - jayantasarkar67@gmail.com
 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 2

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #1 WEIGH FLOOR	Noise level Monitoring	08.08.2023	10:20 AM	Annexure-1	81.6	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-I	3	<i>Tapom...</i>	T. SUTRADHAR
						83.2							
						82.4							
						82.2							
						81.9							
						83.6							
						82.4							
						82.0							
						81.8							
82.0													
													S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
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Form No. - 30

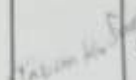
Table No. - 3

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #1 COOLER FLOOR	Noise level Monitoring	08.08.2023	11:05 AM	Annexure-1	82.4	82.6	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		S. CHATTARAJ
						81.6							
						82.1							
						83.2							
						81.9							
						83.6							
						82.4							
						82.8							
						83.0							
82.8													

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak

Haldia; Purba Medinipur-721602

Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph - 03224-275765

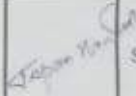

Mob - 94340 17384

e-mail : joyantasarkar67@gmail.com
indicativeconsultantindia@gmail.comForm No. - 30Table No. - 4Result 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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #1 PRESS FLOOR	Noise level Monitoring	08.08.2023	11:50 AM	Annexure-1	79.6	81.6	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.2							
						78.8							
						82.4							
						83.1							
						82.0							
						81.9							
						82.6							
						82.8							
81.8													
												S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 5

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #2 PRESS FLOOR	Noise level Monitoring	09.08.2023	05:20 PM	Annexure-1	82.4	82.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs) - 90 dB(A)	Annexure-1	3	<i>(Signature)</i>	T. SUTRADHAR
						81.6							
						81.8							
						82.0							
						81.9							
						82.1							
						81.8							
						82.6							
						81.1							
82.4													
												S. CHATTA RAJ	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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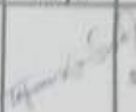
Form No. - 30

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

Distance from the Machine : 3.0 M

Sl No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	EXTRUSION #2 14 METER FLOOR	Noise level Monitoring	09.08.2023	06:05 PM	Annexure - I	82.9	82.6	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure - I	3		T. SUTRADHI AR
						81.1							
						82.4							
						81.6							
						82.0							
						83.3							
						82.7							
						82.5							
						83.1							
						81.9							

For, INDICATIVE CONSULTANT INDIA

Parbati Sarkar
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

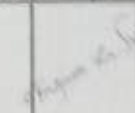
Ph - 03224-275765
 Mob - 94340 17584
 e-mail - jayantatarkar67@gmail.com
 indicativeconsultantindia@gmail.com

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 : 1.5 M

Distance from the Machine : 3.0 M

Sl. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKIN G - 24 (II)	Noise level Monitoring	14.08.2023	11:30 AM	Annexure-1	82.6	84.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T
						84.1							SUTRAJHI
						83.4							AR
						86.2							
						85.9							
						82.9							
						83.2							
						84.0							
						85.9							
						86.0							S.
												CHATTAR	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

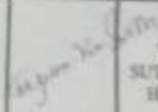

Ph - 03224-275763
 Mob - 94340 17584
 e-mail : jayantasharkar67@gmail.com
 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 8

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKING RH-14 SECTION SHOP FLOOR	Noise level Monitoring	08.08.2023	02:40 PM	Annexure-1	82.3	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.9							
						82.4							
						80.8							
						82.6							
						83.2							
						82.4							
						81.8							
						82.6							
						82.9							
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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Mob: 94340-17584

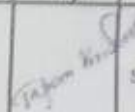

e-mail: jayasankar71@gmail.com/
 indicativeconsultantindia@gmail.com

Form No. - 39 Table No. - 9

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKING RH- 16 SHOP FLOOR	Noise level Monitoring	08.08.2023	02:05 PM	Annexure-1	83.0	81.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.4							
						80.8							
						82.9							
						82.0							
						82.4							
						81.6							
						82.8							
						81.1							
						80.6						S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
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Ph - 03224-275765

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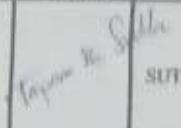

Form No. - 39

Table No. - 19

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKING RI-24(I) SECTION SHOP FLOOR	Noise level Monitoring	08.08.2023	03:15 PM	Annexure-1	81.8	82.1	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						82.2							
						83.2							
						82.8							
						81.8							
						82.4							
						81.9							
						80.9							
						81.6							
						82.5							
												S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA

Parbati Chatterjee
 Authorised Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia, Purba Medinipur-721602
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 indicativeconsultantindia@gmail.com

Form No. - 39 Table No. - 11

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKIN G RH - 24 (II)	Noise level Monitoring	08.08.2023	03:50 PM	Annexure-1	82.1	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		SUTRASHAR AR
						83.2							
						80.8							
						81.9							
						82.2							
						82.6							
						83.0							
						82.4							
						81.6							
82.7													

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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Mob. - 94340 17584

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Form No. - 30

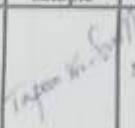

Table No. - 12

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	BAKING TUNNEL KILN	Noise level Monitoring	09.08.2023	09:35 AM	Annexure-1	82.6	82.1	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						83.2							
						81.4							
						82.2							
						81.9							
						82.1							
						80.9							
						81.6							
						82.3							
82.7													
													S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA

Parbat
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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Mob - 94140 17564

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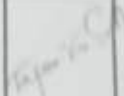

indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 13

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	PITCH IMPREGNATION UNIT # 2 SHOP	Noise level Monitoring	08.08.2023	05:05 PM	Annexure-1	82.2	82.2	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.9							
						81.2							
						81.6							
						80.4							
						81.0							
						82.9							
						82.7							
						81.5							
						82.3							
												S. CHATTA	

For, INDICATIVE CONSULTANT INDIA



PAGE

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 e-mail : jayantavarkar67@gmail.com
 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 14

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	PITCH IMPREG NATION UNIT # 3 SHOP	Noise level Monitoring	08.08.2023	04:25 PM	Annexure-1	80.8	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						82.4							
						81.9							
						82.6							
						83.1							
						82.4							
						82.8							
						81.8							
						82.2							
82.6													

For, INDICATIVE CONSULTANT INDIA

Parbat Kumar
 Authorized Signator



INDICATIVE CONSULTANT INDIA

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 Haldia, Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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 e-mail - jayantisarkar67@gmail.com
 indicativeconsultantindia@gmail.com

Form No. - 39 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

Distance from the Machine : 3.0 M

Sl No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
I.	PITCH IMPREGNATION UNIT # 4 SHOP	Noise level Monitoring	08.08.2023	05:40 PM	Annexure-I	81.8	82.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-I	3	<i>[Signature]</i>	T. SUTRADHAR
						82.4							
						83.6							
						82.9							
						82.2							
						82.5							
						81.8							
						82.4							
						81.9							
82.6													

For, INDICATIVE CONSULTANT INDIA



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HPL Link Road, Basudevpur, Khanjanchak
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 e-mail - jayantaskar67@gmail.com/
 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 16

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	LWG # 3 SHOP	Noise level Monitoring	09.08.2023	10:50 AM	Annexure-1	82.4	82.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	<i>Jayantaskar</i>	T. SUTRADHAR
						81.9							
						82.7							
						82.5							
						81.8							
						81.6							
						82.6							
						83.1							
						82.4							
82.8													
												S. CHATTARAJI	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Form No. - 30

Table No. - 17

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Mob - 94340 17584

e-mail : jayantakar67@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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	LWG # 4 SHOP	Noise level Monitoring	09.08.2023	10:10 AM	Annexure-1	81.8	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	<i>T. SUTRADHAR</i>	T. SUTRADHAR
						82.3							
						82.4							
						82.9							
						81.6							
						81.7							
						82.5							
						82.8							
						83.0							
						82.4							

For, INDICATIVE CONSULTANT INDIA

Parbat Ghosh
Authorized Signatory



INDICATIVE CONSULTANT INDIA

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 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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e-mail : jayantasarkar67@gmail.com
 indicativeconsultantindia@gmail.com

Form No. - 30

Table No. - 18

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	LWG UNIT # 4 (AUTO DUST BAGGING AREA)	Noise level Monitoring	09.08.2023	12:10 PM	Annexure-1	79.4	79.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	<i>[Signature]</i>	T. SUTRADHAR
						78.4							
						77.6							
						79.8							
						80.6							
						79.3							
						81.2							
						79.4							
						78.6							
79.9													
												<i>[Signature]</i>	S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

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MoB - 94340 17584

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 indicativereconsultantindia@gmail.com

Form No. - 30

Table No. - 19

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	LWG # 5 SHOP	Noise level Monitoring	09.08.2023	11:30 AM	Annexure-1	82.3	82.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3	<i>[Signature]</i>	T SUTRADI AR
						81.6							
						82.9							
						82.4							
						81.6							
						80.4							
						82.2							
						81.6							
						82.0							
81.1													

For, INDICATIVE CONSULTANT INDIA

Authorized Signature



INDICATIVE CONSULTANT INDIA

HPI, Link Road, Basudevpur, Khanjanchak
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Ph: 03324-219765

Mob - 94340 17384

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Form No. - 30

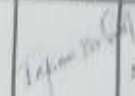
Table No. - 20

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	FINISHIN G # 1 SHOP FLOOR	Noise level Monitoring	09.08.2023	12:55 PM	Annexure-1	80.4	81.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure- 1	3		T. SUTRADH AR
						81.9							
						81.6							
						82.4							
						81.0							
						82.1							
						81.6							
						82.9							
						82.2							
83.0													

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPI, Link Road, Basudevpur, Khanjanchak
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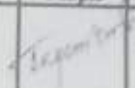

Form No. - 30

Table No. - 21

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	FINISHING #2 SHOP FLOOR	Noise level Monitoring	09.08.2023	02:10 PM	Annexure-1	82.6	82.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.8							
						82.4							
						83.2							
						82.2							
						82.9							
						81.1							
						81.6							
						83.0							
						82.7						S. CHATTERAJ	

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

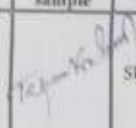

Form No. - 30 Table No. - 22

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 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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	FINISHING # 3 SHOP FLOOR	Noise level Monitoring	09.08.2023	02:45 PM	Annexure-1	82.4	82.2	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						82.0							
						81.6							
						83.2							
						82.4							
						81.9							
						83.0							
						82.4							
						81.1							
82.3													
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA

Parbat Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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 indicativeconsultantindia@gmail.com



Form No. - 30

Table No. - 23

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	GRAPHITE ACHESON SHOP	Noise level Monitoring	09.08.2023	03:20 PM	Annexure-1	80.4	80.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						78.4							
						79.8							
						81.4							
						79.6							
						78.6							
						79.4							
						80.9							
						79.8							
81.2													
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA

Parbati
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

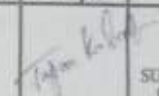

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 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 24

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. No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	GRAPHITE FINES SCREENING SHOP	Noise level Monitoring	09.08.2023	04:00 PM	Annexure-1	81.6	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						82.4							
						80.6							
						82.7							
						81.9							
						82.9							
						83.6							
						83.2							
						82.4						S. CHATTERJEE	
						81.4							

For, INDICATIVE CONSULTANT INDIA



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Haldia; Purba Medinipur-721602
Govt.Regn.No.-L-64871; MSME Reg. No.: WB-12-0000228

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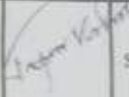
Form No. - 30

Table No. - 25

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	CORE SAMPL E SHED	Noise level Monitoring	09.08.2023	04:40 PM	Annexure- I	79.4	80.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure- I	3		T. SUTRAD HAR
						81.2							
						78.4							
						80.6							
						81.1							
						82.4							
						80.6							
						81.4							
						79.2							
						78.8							

For, INDICATIVE CONSULTANT INDIA

Parbati
Authorized Signatory



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HPL Link Road, Basudevpur, Khanjanchak
 Haldia; Purba Medinipur-721602
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

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 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 26

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 No	Location	Parameter	Date of Monitoring	Starting Time	Sampling Instrument Use	Sound Level dB(A)	Average Reading	Total Time	Limit	Reference Method	Number of Persons exposed	Signature of person taking sample	Name in block letters
1.	FINISHING UNIT # 4	Noise level Monitoring	14.08.2023	12:25 PM	Annexure-I	87.2	87.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-I	3	<i>T. Sutra Dhar</i>	T. SUTRA DHAR
						86.4							
						88.9							
						88.2							
						88.4							
						87.6							
						88.9							
						88.4							
						86.1							
88.6													
												S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanianchak
Haldia, Purba Medinipur - 721 602
Govt.Regd.No.-L-64871; MSME Reg. No.: WB-12-0000228

M/s. GRAPHITE INDIA LTD.

Address: Dist - Paschim Bardhaman, Durgapur, PIN - 713 211, (West Bengal)

Result of Analysis :-

Register Containing Particulars of *Testing of Illumination Level.*

Form No. - 30

Table No. - 1

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indicativeconsultantindia@gmail.com

Sl. No.	Name of Locations	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Reference Method	Illumination Level in Lux	Limit Lux	Remarks	Signature	Name
1	EXTRUSION #1 MIXER WORKING AREA	Illumination	09.08.2023 6:50 PM to 8:50 PM	Digital Lux Meter	By Digital Lux Meter	212	65	Adequate	<i>Tajam</i>	T. SUTRAJHAR
2	EXTRUSION #1 WEIGH WORKING AREA					225	65	Adequate		
3	EXTRUSION #2 PRESS WORKING AREA					165	65	Adequate		
4	EXTRUSION #2 14 MTR. WORKING FLOOR					122	65	Adequate		
5	REID HAMMER BAKING-14 WORKING AREA					225	65	Adequate		
6	REID HAMMER BAKING-16 WORKING AREA					174	65	Adequate		
7	REID HAMMER BAKING-24 (I) WORKING AREA					141	65	Adequate		
8	REID HAMMER BAKING-24 (II) WORKING AREA					365	65	Adequate		
9	BAKING TUNNEL KILN WORKING AREA					305	65	Adequate		
10	PITCH IMPREGNATION UNIT # 2 WORKING AREA					480	65	Adequate		
11	PITCH IMPREGNATION UNIT # 3 WORKING AREA					251	65	Adequate		
12	LWG # 3 WORKING AREA					161	65	Adequate		
13	LWG # 4 WORKING AREA					142	65	Adequate		
14	GRAPHITE ACHESON WORKING AREA					207	65	Adequate		
15	FINISHING # 1 WORKING AREA					311	65	Adequate		
16	FINISHING # 2 WORKING AREA					404	65	Adequate		
17	FINISHING # 3 WORKING AREA					145	65	Adequate		
18	LWG # 5 WORKING AREA					116	65	Adequate		
19	PITCH IMPREGNATION UNIT # 4 WORKING AREA					470	65	Adequate		
20	MAINTENANCE DEPARTMENT					155	65	Adequate		
21	MAIN STORE AREA					154	65	Adequate		
22	CANTEEN					157	65	Adequate		
23	NEAR MAIN GATE (OLD PLANT)					121	65	Adequate		
24	LABORATORY					245	65	Adequate		
25	REID HAMMER BAKING-24(III) WORKING AREA					184	65	Adequate		
26	FINISHING # 4 WORKING AREA					143	65	Adequate		
									<i>S</i>	S CHATTARAJ

Note: As per Factories Rules, 1958: Rule No R 31 (prescribed under sub section (4) of section 17)

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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. - 1

Name of Department/Plant: EXTRUSION #1 MIXER FLOOR

Ambient Temperature	Dry Bulb	Wet Bulb
On 10.08.2023	35.0°C	28.0°C
Ambient Air flow – 48 m/min SE to NW		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	10.08.2023 02:10 PM to 03:35 PM	Annexure-1	1712.9 m ³ x 6	21815.34 m ³	-	-	-	Vol. of Air change/hr > 6 x Vol. Of work place	Annexure-1	Adequate		S. BHATTACHARYA
2.	Inside Work Place	Velocity of Air at work place			-	-	36 m/min - at the entrance gate 36 m/min - at middle of the plant	-	30 m/min at work place at 1.5 M height	Adequate				
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	-	Dry Bulb 37.0°C Wet Bulb 29.5°C	Wet Bulb less than 30° C		Adequate		S. BHATTACHARYA

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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 Bulb	Wet Bulb
On 11.08.2023	31.0°C	27.0°C
Ambient Air flow – 54 m/min SE to NW		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	11.08.2023	Annexure-1	18048.6 m ³ x 6 = 1,08,291.6 m ³	825214.58 m ³	-	-		Vol. of Air change/hr > 6 x Vol. Of work place	Annexure-1	Adequate		A. BEATTA CHARYA
2.	Inside Work Place	Velocity of Air at work place			-	-	42 m/min – at middle of the plant	-		30 m/min at work place at 1.5 M height		Adequate		
3.	Inside Work Place At middle of the plant	Temperature at work place	10:30 AM to 11:50 AM		-	-	-	Dry Bulb 33.0°C	Wet Bulb 28.0°C	Wet Bulb less than 30° C		Adequate		

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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. - 3

Name of Department/Plant: BAKING RH - 16 SHOP FLOOR

Ambient Temperature	Dry Bulb	Wet Bulb
On 08.08.2023	36.0°C	29.0°C
Ambient Air flow - 60 m/min SE to NW		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	08.08.2023 02:05 PM to 03:25 PM	Annexure-1	46832.32 m ³ X 6 = 2,80,993.92 m ³	353756.26 m ³	-	-	-	Vol. of Air change/hr > 6 x Vol. Of work place	Annexure-1	Adequate		A. BHATTACHARYA
2.	Inside Work Place	Velocity of Air at work place			-	-	36 m/min - at LHS of furnace 36 m/min - at RHS of furnace 42 m/min - at the middle	-	-	30 m/min at work place at 1.5 M height		Adequate		
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	-	Dry Bulb 38.0°C Wet Bulb 29.0°C	Wet Bulb less than 30° C		Adequate		

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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. - 4

Name of Department/Plant: **PITCH IMPREGNATION UNIT # 3**

Ambient Temp.	Dry Bulb	Wet Bulb
On 11.08.2023	34.0°C	28.0°C
Ambient Air flow – 60 m/min S to N		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	11.08.2023 02:10 PM to 03:40 PM	Annexure- I	9,853.56 m ³ X 6 = 59,121.36 m ³	90458.51 m ³	-	-	-	Vol. of Air change/hr > 6 x Vol. Of work place	Annexure- I	Adequate		A. BHATTA CHAKYA
2.	Inside Work Place	Velocity of Air at work place			-	-	36 m/min – at Entrance Gate 36 m/min – at Middle 42 m/min – at Back side Gate	-	30 m/min at work place at 1.5 M height	Adequate				
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	Dry Bulb 36.0°C Wet Bulb 28.5°C	Wet Bulb less than 30° C	Adequate				

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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. - 5

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		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	09.08.2023 10:10 AM to 11:35 AM	Annexure-1	58176 m ³ x 6 = 3,49,056 m ³	1622256.81 m ³	-	-	-	Vol. of Air change/hr >6 x Vol. Of work place	Annexure-1	Adequate		A. BHATTA CHARYA
2.	Inside Work Place	Velocity of Air at work place			-	-	42 m/min - at entrance of 1 st Gate 36 m/min - at entrance of 2 nd Gate 36 m/min - at middle	-	-	30 m/min at work place at 1.5 M height		Adequate Adequate Adequate		
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	-	Dry Bulb 38.0°C Wet Bulb 28.5°C	Wet Bulb less than 30° C		Adequate		

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P 5/8



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Table No. - 6

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
Ambient Air flow – 72 m/min SE to NW		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temp. at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	08.08.2023 10:35 AM to 12:05 PM	Annexure-1	12522.4 m ³ x 6 = 75,134.4 m ³	162025.11 m ³	-	-		Vol. of Air change/hr >6 x Vol. Of work place	Annexure-1	Adequate		A. BHATTA CHAKRA
2.	Inside Work Place	Velocity of Air at work place			-	-	36 m/min- at Gate	-		30 m/min at work place at 1.5 M height		Adequate		
					-	-	42 m/min- at Middle of the Plant	-				Adequate		
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	Dry Bulb 32.0°C	Wet Bulb 28.5°C	Wet Bulb less than 30° C		Adequate		S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA

Parbati Chakraborty
 Authorised Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevapur, 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. - 7

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		

Sl. No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temp. at work place		Limit	Reference Method	Remarks	Signature	Name
1.	Inside Work Place	Volume of Air change	09.08.2023 02:10 PM to 03:30 PM	Annexure-1	24597.54 m ³ X 6 = 1,47,585.24 m ³	172036.87 m ³	-	-	-	Vol. of Air change/hr > 6 x Vol. Of work place	Annexure-1	Adequate		A. BHATTA CHARYA
2.	Inside Work Place	Velocity of Air at work place			-	-	36 m/min - at entrance of 1 st Gate 36 m/min - at entrance of 2 nd Gate 48 m/min - at the middle	-	30 m/min at work place at 1.5 M height	Adequate Adequate Adequate				
3.	Inside Work Place At middle of the plant	Temperature at work place			-	-	-	Dry Bulb 36.0°C Wet Bulb 27.5°C	Wet Bulb less than 30° C	Adequate				

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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. - 8

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 No	Location	Parameter	Date & Time of Monitoring	Sampling Instrument Used	Volume of Work Place X 6	Volume of Air change/Hr	Velocity of Air	Dry/Wet bulb Temperature at work place		Limit	Reference Method	Remarks	Signature	Name				
1.	Inside Work Place	Volume of Air change	10.08.2023 10:30 AM to 12:25 PM	Annexure-1	98,344.81 m ³ X 6 = 5,90,068.86 m ³	756527.47 m ³	-	-	-	Vol. of Air change/hr >6x Vol. Of work place	Annexure-1	Adequate		A. BHATTACHARYA				
2.	Inside Work Place	Velocity of Air at work place			36 m/min – East Side of the Furnace	-	-	36 m/min – East Side of the Shed	-	-		30 m/min at work place at 1.5 M height		Adequate	Annexure-1	Adequate		S. CHATTERJEE
					42 m/min – West Side of the Furnace	36 m/min – West Side of the Shed	42 m/min – Middle of the Shed	Adequate										
3.	Inside Work Place At middle of the plant	Temperature at work place	-	-	-	-	Dry Bulb 38.0°C	Wet Bulb 29.0°C	Wet Bulb less than 30° C	Adequate								

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P 8/8

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 :**

- i) *Respirable Particulate Matter (RPM) ;
Method of air sampling and analysis as per IS: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 IS: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 IS 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@graphiteindia.com

Oct 14, 2023

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).

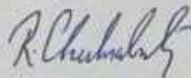
Dear Sir,

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)

Annexure - 5

Air Pollution Control System



**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

Vendor 210263	Tel No: 9332387185	PO No	DOM/8600001972	Date 09.08.2023
MAKARNI INFRASTRUCTURE PVT. LTD.		PO Rev No		Date
B-3, COLLINS PATH		Vendor's Ref	Refer Text	
BIDHAN NAGAR		Our Ref	Refer Text	
DURGAPUR	713212 West Bengal	Payment Terms	Refer to Text	
PAN No : AAGCM1128	GSTN No : 19AAGCM1128G1ZM	Incoterms.	FOR GIL WORKS,DURGAPUR	

Sr No	Mat No	Description	UOM	Qty	Rate (INR)
1		Rain Water Harvesting System HSN No/SAC Code - 9987	AU	1	450,000.00
		Delivery Schedule Total Quantity by 30.09.2023			
		The item covers the following services			
		<i>Towards the Charges for Earthwork in excavation of foundations trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.</i>	M3	10	170.00
		<i>Towards the Charges for Earthwork in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (payment to be made on the basis of measurement of finished quantity of work.)</i>	M3	5	80.00
		<i>- With earth obtained from excavation of foundation.</i>			
		<i>Towards the Charges for Removal of Rubbish, etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer-in-Charge.</i>	M3	5	160.00
		<i>Towards the Charges for Back filling in foundation trenches or plinth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete, (payment to be made on</i>	M3	5	1,000.00

16/08/2023
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PURCHASE ORDER

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			
Sr No	Mat No	Description	UOM	Qty	Rate (INR)		
		the basis of measurement of finished quantity of work.) - Filling by Filling Sand. Towards the Charges for Supply & Laying of Polythene Sheet in bottom of P.C.C / R.C.C.	M2	45	45.00		
		Towards the Charges for Cement Concrete with graded stone ballast (40mm size), including shuttering. M10 Grade (1:3:6),	M3	5	4,900.00		
		Towards the Charges for Batch Mixed Concrete of M25 Grade with well graded stone chips of 20mm & 10mm nominal size containing designed quantity of cement per Cu .m of wet concrete produced in computerised batching plant under controlled condition using approved super plastisizer designing concrete mix following I.S .10262and I.S.456.	M3	15	5,200.00		
		Towards the Charges for Hire and Labour charges for shuttering with centering and necessary staging (where required) using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns ,lintels curved or straight including fitting, fixing and striking out after completion of works (Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work).	M2	45	380.00		
		Towards the Charges for Reinforcement for reinforced concrete work in all sorts of structures including distribution bars stirrups, binders etc. Initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction.	TC	0.830	11,000.00		
		- For works in foundation and basement					

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

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

Authorised Signatory

19/08/2023
16/8

PURCHASE ORDER

GID-MTL-F008 R6

w.e.f. 16.05.2022



GRAPHITE INDIA LTD.

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

Phone : 9870777399, 9670111899

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			
Sr No	Mat No	Description	UOM	Qty	Rate (INR)		
		- For steel / Mild steel Towards the Charges for Dismantling of existing construction and remove the rubbish & clean the site including all.	M3	5	1,800.00		
		- For RCC with rod cutting & removal. Towards the Charges for Supplying, Fitting & fixing PVC pipes A-type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials at every 2.0 to 3.0 mtr. "T" joint with Cap for cleaning to be provided & required bend including all.	M	100.000	790.00		
		- 150 Ø PVC pipe. Towards the Charges for Fitting and fixing UPVC pipes for internal Cold and Hot water supply, conforming to ASTM-D-2846 grade SDR 13.5 including all type of fittings such as tees, sockets, elbows, bends, unions, reducers, sleeve pipes etc. with solvent cement solution as per ASTM d-2564 for cold fusion, fixed with plastic clamps as required /spec. of manufacturer including chase / hole cutting on brick-wall / RCC wall & repairing the same with cement concrete (1:2:4) and mortar (1:4) etc. complete.	M	25.000	210.16		
		- 25 mm Dia. Towards the Charges for Fitting and fixing UPVC pipes for internal Cold and Hot water supply, conforming to ASTM-D-2846 grade SDR 13.5 including all type of fittings such as tees, sockets, elbows, bends, unions, reducers, sleeve pipes etc. with solvent cement solution as per ASTM d-2564 for cold fusion, fixed with plastic clamps as required /spec. of manufacturer including chase / hole	M	50.000	150.00		

REGISTERED & H.O. : 31 CHOWRINGHEE ROAD, KOLKATA-700016

CIN : L10101WB1974PLC004602

Telephone No. : +91-33-40029600 FAX : +91-33-40029678

E-mail id : giro@graphiteindia.com Website : www.graphiteindia.com

Authorized Signatory

16/08/2023
16/8

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05.2022

GRAPHITE INDIA LTD.

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal
Phone :8670777369, 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			
Sr No	Mat No	Description	UOM	Qty	Rate (INR)		
		cutting on brick-wall / RCC wall & repairing the same with cement concrete (1:2:4) and mortar (1:4) etc. complete. - 20 mm Dia. Towards the Charges for Supply, Fitting & Fixing Pump with necessary fitting as per requirement including all. - 1 HP Pump (Make: "KIRLOSKAR"). Towards the Charges for Supply, Fitting & Fixing of 5000 Ltr. PVC water tank of approved make including necessary fitting & Fixture like connector #. etc. Towards the Charges for Supply, Fitting Supplying, fitting and fixing Threaded end Ball Valve including extension piece (if necessary) and jointing materials etc. all complete. - 25 mm Dia. Towards the Charges for Supply, Fitting Supplying, fitting and fixing Threaded end Ball Valve including extension piece (if necessary) and jointing materials etc. all complete. - 20 mm Dia. Towards the Charges for Grouting under column base with non-shrink grout of the type Sikagrout 214 (ES) / Cebex 200 / Shrinkcomp or equivalent as per manufacturer's recommendation as approved by the Engineer.	PC	6.000	4,856.00		
			SET	6	25,720.00		
			PC	6.000	35.00		
			PC	6.000	30.00		
			M3	1	28,000.00		
FOUR LAKH FIFTY THOUSAND Rupees ONLY						Total Value :	450,000.00
Other Item Charges							
Mat No.	Discount	CGST	SGST/UTGST	IGST	Tax Text		
		9.00 %	9.00 %		[GST Tax Credit (9% SGST & 9% CGST)]		
Terms and Condition							

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REGISTERED & HQ : 31 CHOWRINGHEE ROAD, KOLKATA-700018
CIN : L10101WB1974PLC094602
Telephone No. : +91-33-40029600 FAX : +91-33-40029676
E-mail Id : giro@graphiteindia.com Website : www.graphiteindia.com


Authorised Signatory

PURCHASE ORDERGID-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.comGST No. : 19AAACC0457C1Z4
PAN No. : AAACC0457C

PO No	DOM/8600001972	Date	09.08.2023
PO No Rev		Date	

Delivery Instructions

- 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:

- 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.
- Full & final settlement of the bill will be made only after the complete removal of man & machine from the site.
- 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


- 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 BIFURCATION E-MAIL DATED 09.08.2023.
- PRICE VARIATION CLAUSE: NO PRICE VARIATION SHALL BE ACCEPTABLE TILL COMPLETION OF NOMINATED JOB.
- CONTRACTOR'S SCOPE OF SUPPLY / WORK:
 - 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. : 31 CHOWRINGHEE ROAD, KOLKATA-700016

CIN : L10101WB1974PLC094802

Telephone No. : +91-33-40029600 FAX : +91-33-40029676

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


 Authorised Signatory

14/08/2023
 10/8


PURCHASE ORDER

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) / GEBEX 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.I.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.

Handwritten:
 16/08/2023
 16/8

REGISTERED & H.O. :31 CHOWRINGHEE ROAD, KOLKATA-700016
 CIN : L10101WB1974PLC094802

Telephone No. : +91-33-40029600 FAX : +91-33-40029676

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

Handwritten Signature:
 R. Chakrabarti
 Authorised Signatory

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05.2022**GRAPHITE INDIA LTD.**

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal
 Phone : 8670777399, 8670111899
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 Website : www.graphiteindia.com

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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 / 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 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 AGAINST 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

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


 Authorised Signatory

Handwritten notes:
 16/08/2023
 19/8
 16/8

PURCHASE ORDER

GID-MTL-F008 R6

w.e.f. 16.05.2022

**GRAPHITE INDIA LTD.**

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

REGISTERED & H.O. : 31 CHOWRINGHEE ROAD, KOLKATA-700016
 CIN : L10101WB1974PLC094602
 Telephone No. : +91-33-40029600 FAX : +91-33-40029676
 E-mail Id : gilro@graphiteindia.com Website : www.graphiteindia.com

R. Chakraborty
 Authorised Signatory

16/08/2023
K/S

PURCHASE ORDERGID-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.comGST 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 PROTOCOL 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

Handwritten notes:
16/08/2023
Jash
KFS

REGISTERED & H.O. : 31 CROWRINGHEE ROAD, KOLKATA-700016
CIN : L10101WB1974PLC004602
Telephone No. : +91-33-40029600 FAX : +91-33-40029676
E-mail id : gilro@graphiteindia.com Website : www.graphiteindia.com

Handwritten signature:
Authorized Signatory

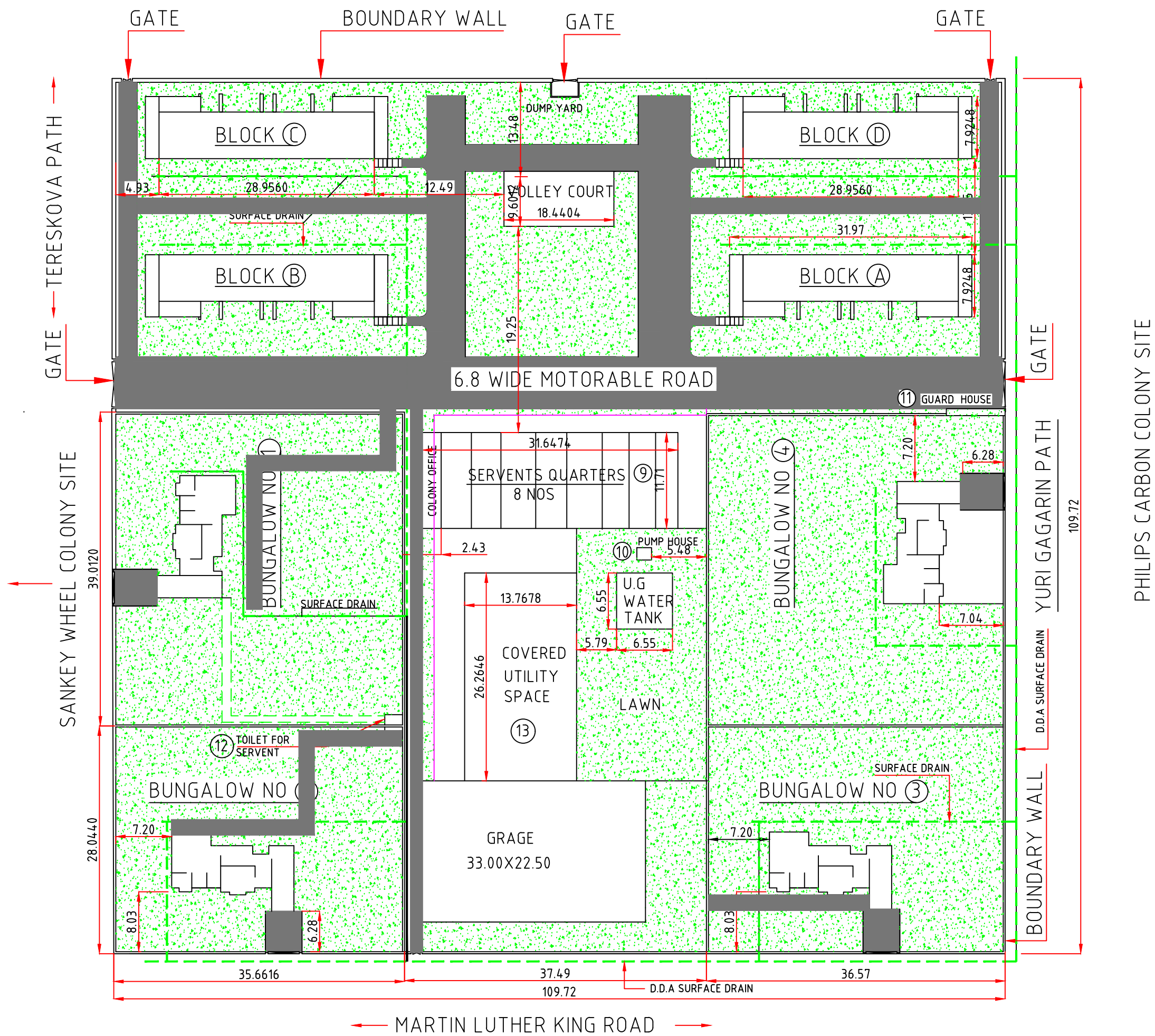
Existing Rain Water Harvesting Tank



Greenbelt





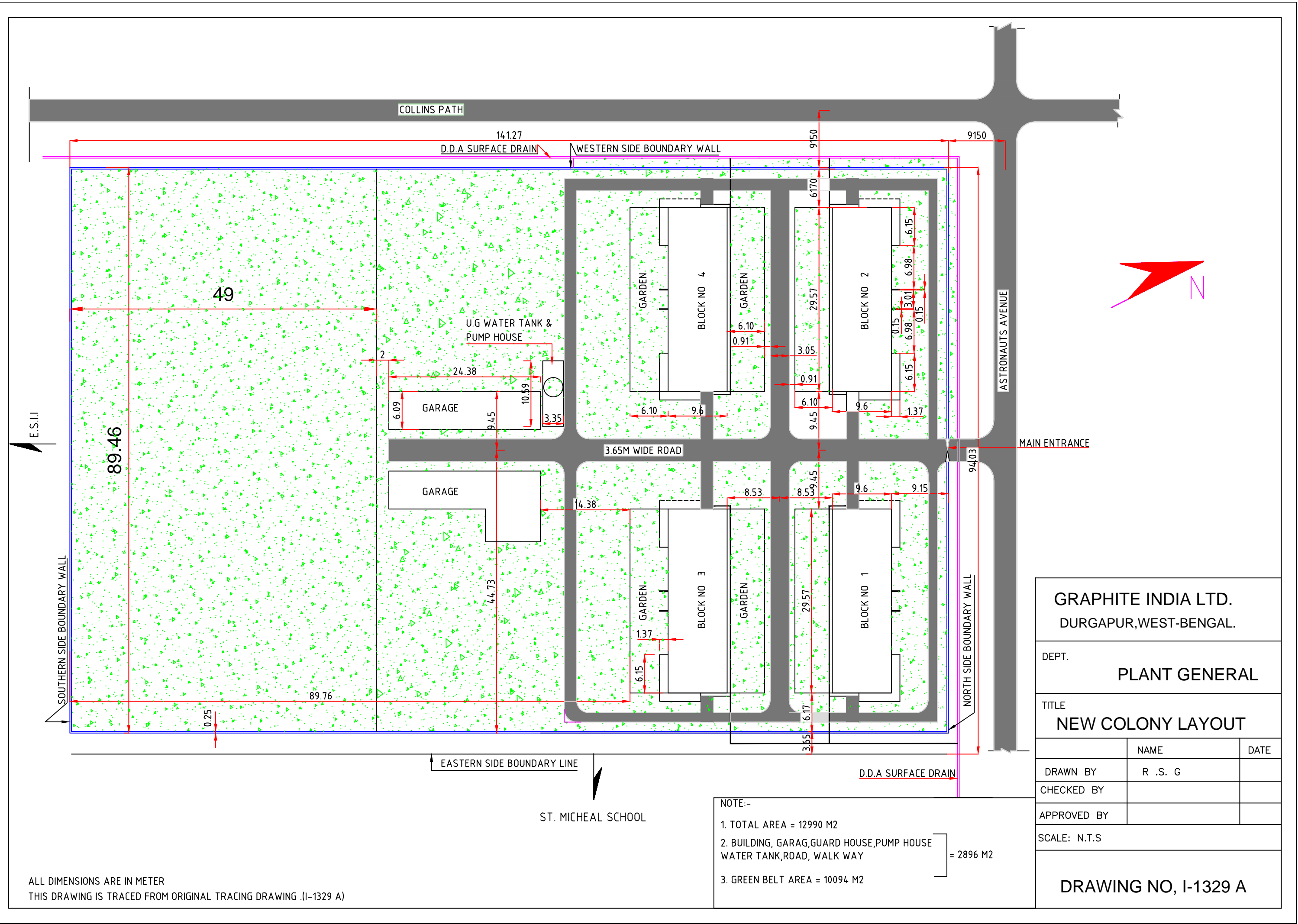


NOTE:-
 1. TOTAL AREA = 12140 M2
 2. BUILDING, BUNGALOW, SERVENT QUARTERS, PUMP HOUSE, GUARD HOUSE, WATER TANK, ROAD, GARAGE, AUDITORIUM, VOLLEY COURT. = 4190 M2
 3. GREEN BELT AREA = 7950 M2

GRAPHITE INDIA LTD. DURGAPUR, WEST-BENGAL.		
DEPT. PLANT GENERAL		
TITLE OLD COLONY LAYOUT		
	NAME	DATE
DRAWN BY	R .S. G	
CHECKED BY		
APPROVED BY		
SCALE: N.T.S		
DRAWING NO, I-1496		

ALL DIMENSIONS ARE IN METER
 THIS DRAWING IS TRACED FROM ORIGINAL TRACING DRAWING .(I-1329 A)

TOTAL COLONY AREA = 3.000 ACRES = 130680.00 S.F.T = 12140.46 SQ.M
 1 ACRE = 43560 S.F.T



ALL DIMENSIONS ARE IN METER
THIS DRAWING IS TRACED FROM ORIGINAL TRACING DRAWING (I-1329 A)

- NOTE:-
- 1. TOTAL AREA = 12990 M2
 - 2. BUILDING, GARAG,GUARD HOUSE,PUMP HOUSE
WATER TANK,ROAD, WALK WAY } = 2896 M2
 - 3. GREEN BELT AREA = 10094 M2

GRAPHITE INDIA LTD. DURGAPUR, WEST-BENGAL.		
DEPT. PLANT GENERAL		
TITLE NEW COLONY LAYOUT		
	NAME	DATE
DRAWN BY	R .S. G	
CHECKED BY		
APPROVED BY		
SCALE: N.T.S		
DRAWING NO, I-1329 A		

JULY 23

GRAPHITE INDIA HEALTH DAILY PATIENT

Sl. No.	Date	Name of the Patient	Dept.	Desig.	E. S. No.
1.	01.7.23	Mr. Chatterjee Prabhat	Genl		A
2.	"	Mr. Mahesh Kumar Sharma	Family		
3.	"	Mr. Sagar Das	Family		
4.	"	SK. Ananta	Genl		
5.	"	Mr. Dura Banerjee	Genl		
6.	"	Mr. Pa. Das	Genl		
7.	"	Mr. Dineshwar Das	Genl		
8.	"	Mr. Udayan Das	Genl		
9.	"	SK. Soumitra	Genl		
10.	"	Mr. Koushik Das	Genl		
11.	"	SK. Ananta	Genl		
12.	"	Mr. S. Das	Genl		
13.	"	Tudakul Mandal	Genl		
14.	"	Bhargopal Das	Genl		
15.	"	Mr. Sathish Das	Genl		B
16.	"	Mr. Suman Kumar	Genl		
17.	"	Mr. Suman Das	Genl		
18.	"	Mr. Suman Das	Genl		
19.	"	SK. Ananta	Genl		
20.	"	U. K. Das	Genl		
21.	"	Mr. Suman Das	Genl		C
22.	"	Mr. Suman Das	Genl		
23.	"	Mr. Suman Das	Genl		
24.	"	SK. Ananta	Genl		
25.	"	Mr. Suman Das	Genl		
26.	02.7.23	Mr. Suman Das	Genl		A
27.	"	Mr. Suman Das	Genl		
28.	"	SK. Ananta	Genl		
29.	"	Mr. Chatterjee Prabhat	Genl		
30.	"	Mr. Suman Das	Genl		B
31.	"	Mr. Suman Das	Genl		
32.	"	Mr. Suman Das	Genl		
33.	"	Mr. Suman Das	Genl		
34.	"	Mr. Suman Das	Genl		

LIMITED, Durgapur-11 / FIRST AID CENTRE ATTENDANCE REGISTER

Annexure - 8

IP-TRG-123
BO WEF 26.02.2014

Treatment Given
Femovid-1
Femovid-1
Thyroid-1
Femovid-1
Femovid-1
Applied Vaseline oint
Thyroid Plus-1, Femovid-1, Aldy-1, Milt-Cosminite
Femovid-1
Thyroid Plus-2, Femovid-2
Applied Vaseline oint, 10-2 Vaseline oint
Milt-Cosminite, Femovid-1
Milt-Cosminite
Applied Vaseline oint
Thyroid Plus-1, Femovid-1
Plasolone
Diastol, Milt-Cosminite, Aldy-1
Pain-1, Diastol, Aldy-1
Kantrax, Aldy-1
Milt-Cosminite
Diastol
Diastol DS-1
Diastol-2
Diastol DS-1, Kantrax (50)-1
Kantrax (50)-1, Milt-Cosminite
Kantrax DS-1
Applied Vaseline oint, Thyroid Plus-1, Rofecoxib-1
Milt-Cosminite, Rofecoxib-1, Aldy-1
Milt-Cosminite
Kantrax, P-450-1, Milt-Cosminite
Diastol
Diastol
Applied Vaseline oint, Aldy-1
Kantrax
Kantrax Aldy-1

17
AUGUST '23GRAPHITE INDIA
HEALTH
DAILY PATIENT

Sl No.	Date	Name of the Patient	Dept.	Desig.	E.S. No.
1	1/8/23	Mr. Manoj Ray	Ortho		97 A
2	"	Mr. Zakari	Ortho		-
3	"	Mr. A. Khan	Ortho		-
4	"	Mr. P. Gopal	Ortho		-
5	"	Mr. M. S. Reddy	Ortho		-
6	"	Mr. B. S. Reddy	Ortho		-
7	"	Mr. P. S. Reddy	Ortho		97 B
8	"	Mr. S. S. Reddy	Ortho		-
9	"	Mr. M. S. Reddy	Ortho		-
10	"	Mr. N. S. Reddy	Ortho		-
11	"	Mr. S. S. Reddy	Ortho		-
12	"	Mr. S. S. Reddy	Ortho		-
13	"	Mr. A. S. Reddy	Ortho		-
14	"	Mr. P. S. Reddy	Ortho		-
15	"	Mr. M. S. Reddy	Ortho		-
16	"	Mr. A. S. Reddy	Ortho		-
17	"	Mr. S. S. Reddy	Ortho		-
18	"	Mr. B. S. Reddy	Ortho		97 C
19	"	Mr. P. S. Reddy	Ortho		-
20	"	Mr. N. S. Reddy	Ortho		-
21	2/8/23	Mr. Chandan K. Reddy	Ortho		97 A
22	"	Mr. S. S. Reddy	Ortho		-
23	"	Mr. P. S. Reddy	Ortho		-
24	"	Mr. S. S. Reddy	Ortho		-
25	"	Mr. S. S. Reddy	Ortho		-
26	"	Mr. A. S. Reddy	Ortho		-
27	"	Mr. V. S. Reddy	Ortho		-
28	"	Mr. S. S. Reddy	Ortho		97 B
29	"	Mr. S. S. Reddy	Ortho		-
30	"	Mr. S. S. Reddy	Ortho		-
31	"	Mr. S. S. Reddy	Ortho		-
32	"	Mr. S. S. Reddy	Ortho		-
33	"	Mr. S. S. Reddy	Ortho		-
34	"	Mr. S. S. Reddy	Ortho		-

LIMITED, Durgapur-11
FIRST AID CENTRE
ATTENDANCE REGISTERGID-TRG-F023
REVISED 20.02.2014

Treatment Given
Painkillers-1.
Hygiene plan. Painkillers-1.
Painkillers-1.
Hygiene plan. Hygiene-1.
Hygiene plan. Painkillers-1.
Applied ice compress P.S. 100/50, P. 55-1. Sent to ER. Hygiene-1, Rantex-1.
Hygiene-1.
Applied Valium 5mg, Hygiene plan-1, Rantex-1.
Hygiene plan-1, Rantex-1.
Hygiene plan-2, Rantex-2.
Antibiotic therapy.
Applied Ciprofloxacin-D R/D.
Hygiene plan, Rantex-1.
P.S. 100-2, Rantex-2.
Mixt. Cocaine, Rantex-1, P.S. 100-1, Hygiene-1.
P.S. 100-1, Alday-1.
Rantex-1.
Applied Cocaine, Rantex-1.
Hygiene plan, Rantex-1.
Applied ciprofloxacin 500mg.
Painkillers-1.
Hygiene plan. Painkillers-1. Applied Valium 5mg.
Applied ciprofloxacin 500mg.
P.S. 100-1, Alday-1.
P.S. 100-1.
Alday-2.
P.S. 100-1, Rantex-1.
Applied Ciprofloxacin-D R/D.
Ciprofloxacin-D R/D.
Applied Ciprofloxacin-D R/D.
Mixt. Cocaine.
Applied Valium 5mg.
Mixt. Cocaine, Rantex-1.



Training Photographs



Parking Photographs





User Login: 74000071990000910

Friday, November 17, 2023 2:12:19 PM



[Monthly Contribution](#) > [Online Challan Status](#)

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		



User
Login:

Friday, November 17, 2023 2:14:01
PM



[Monthly Contribution](#) > [Online Challan Status](#)

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		



User
Login:

Friday, November 17, 2023 2:16:19
PM



[Monthly Contribution](#) > [Online Challan Status](#)

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		



User
Login:

Friday, November 17, 2023 2:17:09
PM



[Monthly Contribution](#) > [Online Challan Status](#)

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		



User
Login:

Friday, November 17, 2023 2:19:18
PM



[Monthly Contribution](#) > [Online Challan Status](#)

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		



User
Login:

Friday, November 17, 2023 2:19:59
PM



[Monthly Contribution](#) > [Online Challan Status](#)

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

Sl. No.	Proposed need based activities under CER	FY 1 (2022 – 23) (As mentioned in EC) in Lacs	FY 2 (2023 – 24) (As mentioned in EC) in Lacs	Activity done by proponent	Project Proponent already spent
1.	Develop nearby Puja area shed or any other requirement arising in nearby areas	3	3.5	i) Puja shed at Sagarbhanga ii) Puja shed at Borough Office	5,24,210.00 5,87,731.00
Total					1111941.00

PURCHASE ORDER

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 : 19AAACC0457C124

PAN No. : AAACC0457C

Vendor : 004848 PRAKASH CONSTRUCTION PO NO: 123 SAGARBHANSA COLONY	Tel No: 2402600197	PO No : 0001860001994 PO Rev No : Vendor's Ref : Our Ref : Payment Terms : Incoterms :	Date : 15.06.2023 Date : Refer Text : Refer Text : 45 Days after receipt of materials FOR 5 WEEKS DURGAPUR
DURGAPUR - 713211 West Bengal			
PAN No. : ACPBT7841P	GSTIN No. : 19ACTBT7841P124		

Sr No	Mat No	Description	UOM	Qty	Rate (INR)
		Self-Fab. & Erec. of Structural Steel ISN No/SAC Code - 5987	AL	1	524 210.00
Delivery Schedule					
		Total Quantity by		09.06.2023	
<i>The item covers the following services</i>					
		1. Fabrication of structural steel as per drawing & specification.		4 500	74 500.00
		2. Erection of structural steel as per drawing & specification.		4 500	2,050.00
		3. Welding of structural steel as per drawing & specification.		372	450.00
		4. Painting of structural steel as per drawing & specification.		20 000	370.00
FIVE LAKH TWENTY FOUR THOUSAND TWO HUNDRED TEN Rupees ONLY					Total Value : 77,120.00

Other Item Charges

Mat No.	Discount	CGST	SGST/UTGST	IGST	Tax Text
		3.00 %	3.00 %		IGST Tax Credit (9% SGST & 5% CGST)

Terms and Condition

Delivery Instructions
 ENTIRE NOMINAL LD JOB SHALL BE COMPLETED WITHIN THE STIPULATED TIME AS MENTIONED IN THIS PURCHASE ORDER

Inspection Terms
 INSPECTION IN STAGE & FINAL SHALL BE DONE BY M/S GILL & GILL'S AUTHORIZED CONSULTANTS & THE SAME SHALL BE AT M/S GILL & GILL'S AUTHORIZED CONSULTANTS

Handwritten:
 Dated 15/06/2023
 For
 16/6/23

Handwritten Signature:
 R. Chakrabarti
 Authorised Signatory

PURCHASE ORDER

GID-MTL-F008 R6

w.e.f. 16.05.2023



GRAPHITE INDIA LTD.

Durgapur-713211 Dist. :- Paschim Bardhamar, West Bengal
 Phone :86/0777349, 8670111889
 E-mail :gip_purchase@graphiteindia.com
 Website :www.graphiteindia.com

GST No. : 19AAACC0457C1Z4

PAN No. : AAACC0457C

PO No	COM-600001034	Date	16.05.2023
PO No Rev		Date	

DISCRIPTION

ALL THE INSTRUMENTS, EQUIPMENT, FACILITIES ARRANGEMENTS ETC. REQUIRED DURING INSPECTION SHALL NOT TO BE ALL RE-ARRANGED & PROVIDED BY YOU AT AN EXTRA COST TO GIL

Payment Instructions

100% AMOUNT OF JOB DONE QTY, DULY CERTIFIED BY CONCERN DEPARTMENT ALONG WITH APPLICABLE 18% GST AMOUNT SHALL BE RELEASED WITH IN 15 DAYS AFTER SUCCESSFUL JOB COMPLETION DULY CERTIFIED BY OIL AND ALSO SUBMISSION OF COMMERCIAL INVOICE + BILL AT LEAST IN TRIPPLICATE

NOTE: STATUTORY DEDUCTION IF ANY, SHALL BE DEDUCTED FROM YOUR PAYABLE AMOUNT

General Instructions

1 PLEASE ACKNOWLEDGE RECEIPT OF THIS PURCHASE ORDER, SIGNIFYING YOUR ACCEPTANCE OF TERMS AND CONDITIONS HEREOF.

2 FOR RATES, TERMS AND CONDITIONS YOUR ORDER NO. POG14002 DATED 15.04.2023, SUBSEQUENT DISCUSSION, NEGOTIATION ETC. HAD WITH YOU INCLUDING ON 16.05.2023.

3 WBS: DOP-0009-RINGS 02 A S

4 SUBMISSION OF SERVICE ENTRY SHEET, WITH INVOICE TOGETHER WITH A COPY OF THIS ORDER IS MANDATORY

5 YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS, FOR THE SAFETY & SECURITY OF YOUR WORKMEN, FOR WHICH GIL WILL HAVE NO RESPONSIBILITY

6 STATUTORY DEDUCTIONS SHALL BE MADE FROM YOUR PAYABLE AMOUNT

7 YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS, FOR THE SAFETY & SECURITY OF YOUR WORKMEN FOR WHICH OIL WILL HAVE NO RESPONSIBILITY

8 GST: GST SHALL BE PAID EXTRA AS APPLICABLE AT THE TIME OF DISPATCH OF MATERIALS. HOWEVER, PRESENT APPLICATION STATUS IS GIVEN BELLOW.

GST EXTRA @ 18%

GST AS 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 MAINTAINED

ANY CLAIM / EXTRA CLAIM ON ACCOUNT GST OF WHATSOEVER NATURE SHALL NOT BE ENTERTAINED BY GIL ON WHATSOEVER REASONS AT THE DISPATCH OF THE MATERIAL AS WELL AS IN CASE CONTRACTUAL DELIVERY / WORK COMPLETION PERIOD IS NOT MAINTAINED BY YOU

REGISTERED & I-T-D: 21 CHOWRINGHEE ROAD, KOLKATA-700016

CIN: L13101WB1974PLC039402

Telephone No.: +91-33-40029600 FAX: +91-33-40029675

E-mail to: gip@graphiteindia.com Website: www.graphiteindia.com

Authorised Signatory

Mandal
16/05/2023
16/05/23

PURCHASE ORDER

GID-MTL-F008 R6

w.e.f. 16.05.2023



GRAPHITE INDIA LTD.

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	DCM-660500-934	Date	16.05.2023
PO No Rev		Date	

9. TERMINATION CONTRACTOR SHALL BE TERMINATED

- I. IF SAFETY MEANS ARE VIOLATED AT ANY STAGE OF WORK
- II. IF QUALITY OF CONSUMABLE ARE NOT AS PER APPROVED QUALITY
- III. IF THE WORK IS NOT COMPLETED WITH IN THE STIPULATED TIME

10. QUANTITY & TOTAL VALUE VARIATION SINCE THE QUANTITIES ARE ESTIMATED VARIATION IN QUANTITY & FOR TOTAL ESTIMATED VALUE IF ANY GI WILL AMEND THIS PURCHASE ORDER OR WILL ISSUE A SEPARATE PURCHASE ORDER 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 JOBS OR ITEMS AND FOR ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY GI. HOWEVER THERE IS NO BINDING TO GI THROUGH THIS PURCHASE ORDER THAT IF THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY THE REPEAT WORKS WILL BE GIVEN TO THE VENDOR / CONTRACTOR. IN CASE ONE OF THE QUANTITY EXCEEDS VENDOR / CONTRACTOR SHOULD IMMEDIATELY INFORM TO GI FOR FURTHER COURSE OF ACTION

11. SPECIAL CLAUSES PERTAINING TO ISO: 14001

- A. PLEASE MAKE SURE THAT YOUR PERSONNEL WHO WILL BE DOING FOR THE JOB ARE COVERED UNDER PFL/SLI/MLI CLAIM/INSURANCE.
- B. PERSONNEL WHO WILL BE WORKING MUST HAVE ADEQUATE SAFETY PROTECTION LIKE HELMET, GOGGLES/SPECTACLES, FACE MASK ETC. AS APPLICABLE FOR THE TYPE OF JOB.
- C. FOR HANDLING HAZARDOUS MATERIAL, YOU MUST HAVE HAZARDOUS MATERIAL HANDLING CERTIFICATE FROM CONCERNED STATUTORY AUTHORITY.
- D. VENDOR TO GET THE SITE CLEARANCE CERTIFIED BY DE (BILL MUST ALSO BE CERTIFIED BY IMPLEMENTING "SITE CLEARANCE").
- E. ANY ENVIRONMENTAL DAMAGE OCCURRING DUE TO THE SERVICES PROVIDED BY THE VENDOR WILL BE PENALIZED AS DEEMED FIT BY THE ORGANIZATION (CONCERNED CH TO CLARIFY IN BILLS).

F. ALL INCOMING VEHICLES SHOULD HAVE VALID PUC (POLLUTION UNDER CONTROL) AS PER MOTOR VEHICLES ACT.

G. ALL INCOMING VEHICLES SHOULD HAVE VALID REGISTRATION & INSURANCE CERTIFICATES

H. THE DRIVERS OF ALL INCOMING VEHICLES SHOULD POSSESS VALID DRIVING LICENSE

I. ALL INCOMING PLASTIC PACKING SHOULD BE MORE 40 MICRON.

J. ALL INCOMING TANKERS CARRYING HAZARDOUS LIQUID SHOULD HAVE TREV CARD WITH THE DRIVERS

K. SUPPLIERS OF ALL TYPES OF BATTERIES MUST BUYBACK/TAKE BACK OLD/USED/REJECTED BATTERIES

L. MSDS CERTIFICATE TO BE SUPPLIED WITH ALL NEW FIRST TIME SUPPLY OF CHEMICAL, LUBRICANTS OR HAZARDOUS MATERIAL

12. REGISTERED OFFICE & GST DETAILS:

REGISTERED & H.Q. :- 51 CHANDRINGHEE ROAD, KOLKATA-700016
 CIN : LTB901WB1974PLC064002

Telephone No. : +91-33-40029630 FAX : +91-33-40029576

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

R Chakrabarty
 Authorised Signatory

Standard
 16/06/2023
Somnath
 16/6/23

PURCHASE ORDER

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 : erp_purchase@graphiteindia.com
Website : www.graphiteindia.com

GST No. : 19AAACC0457C1Z4
PAN No. : AAACC0457C

PO No	DCN7880001894	Date	16.06.2022
PO No Rev		Date	

M/S. GRAPHITE INDIA LTD
31 CHOWRINGHEE ROAD, KOLKATA-700016
TEL. PHONE NO. 8670777399 FAX NO. 8670111899
CIN. : 10010724950001094802 EMAIL ID : erp_purchase@graphiteindia.com

GST NO : 19AAACC0457C1Z4

12 INWARD DELIVERY - ENTRY OF MATERIALS BY PASSAGE OR ENTRY ALL SUCH MATERIALS AS ALSO OTHER MATERIALS REQUIRED IN CONNECTION WITH PROPER EXECUTION OF THE JOB INTO OUR PLANT PREMISES SHALL FULLY 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

IF A 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 BE TAKEN OUT OF PLANT PREMISES THAT TOO ONLY AFTER THE COMPLETION OF JOB

14 JURISDICTION ANY DISPUTE RELATING TO 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

15 FORCE MAJEURE CLAUSE THIS WILL BE CONSIDERED AND APPLICABLE MAINLY IN THE CASE OF NATURAL CALAMITIES SUCH AS EARTHQUAKES, STORM AND FLOODS AND DECLARATION OF WAR BY OR AGAINST OUR COUNTRY. HOWEVER, IN GENERAL TERMS & GUIDELINES GIVEN BY INTERNATIONAL CHAMBER OF COMMERCE

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 that are 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(i) of Income Tax Act - Effective from 01-07-2021 wherever applicable

REGISTERED S.D.O. 31 CHOWRINGHEE ROAD KOLKATA-700016
CIN : 10010724950001094802
Telephone No. : +91-33-40029676 FAX : +91-33-40029676
E-mail Id : girc@graphiteindia.com Website : www.graphiteindia.com


Authorised Signatory

Handwritten notes:
16/06/2022
16/6/22

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
 Sagarbhang Colony
 Durgapur-713211

Ref. No.

Date

BILL						
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						
SES NO....						
Sl. No.	PARTICULARS	QUANTITY	RATE	AMOUNT		
				Rs.	P	
1	Ser. -Fab. & Erec. Of Structural shed. HSN NO/SAC CODE-9987 Specification Towards the charges for providing, Fabrication, Erection etc. of Structural member shed completely.	AU 1				
	Towards the charges for providing, and applying 01 coat red oxide primer & 02 coat of smoke Grey Finish paint of approved make.	TO 4.500	74820.00	336690.00	00	
	Towards the charges for providing, fastners of Galvalume sheet (Make -"TATA")	TO 4.500	2000.00	9000.00	00	
	Towards the charges for providing, fittings & fixing of Galvalume ridge (Make- " TATA"	TO 4.500	2000.00	9000.00	00	
	Towards the charges for providing, fastners of Galvalume sheet (Make -"TATA")	M2 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	
				47178.90	00	
				47178.90	00	
	TOTAL			618568	00	

E. & O. E

Rupees in words:- Six Lakh Eighteen Thousand Five Hundred Sixty Eight Only.

C. P. Thakur
 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.

*Job done
 by
 23/6*

GSTIN-19ACTPT7641P1ZA

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05.2022



GRAPHITE INDIA LTD.

Durgapur-713211, Dist - Paschim Bardhaman, West Bengal
Phone :8670777999, 8670111899
E-mail :gip_purchasa@graphiteindia.com
Website : www.graphiteindia.com

GST No. : 19AAACC0457C1Z4
PAN No. : AAACC0457C

Vendor	PR4243	Tel No: 8666 25797	PO No	COM-2022051985	Date	05/07/2022
PRAKASH CONSTRUCTION			PO Rev No		Date	
PO NO	172	SAGARIMARSA GURUNY	Vendor's Ref	Refer Text		
			Our Ref	Refer Text		
			Payment Terms	Refer Text		
Loc Address	15071	West Bengal	Intertems	FOR DURGAPUR		
PAN No	AACTE17641E	GSTIN No -	19AC1P77043P1ZA			

Sr No	Mat No	Description	UGM	Qty	Rate (INR)	
		Work including Building Shoring HAN No-SAC Code - 9907	AL	1	567731.80	
Delivery Schedule						
		Total Quantity by		30.07.2022		
<i>The item covers the following services</i>						
		270	459.00	
		1,150	250.00	
		9,480	74,800.00	
		324	450.00	
		1	10,000.00	
					Total Value	567,731.80
						FIFTY FIVE THOUSAND SEVEN HUNDRED THIRTY ONE Rupees
						FIFTY Paise ONLY

Other Item Charges

Mat No.	Discount	CGST	SGST/UTGST	IGST	Tax Text
		5.00 %	5.00 %		(GST Tax @ 10% (5% CGST & 5% SGST))

Terms and Condition

Delivery Instructions
LABOR: NOMINATED JOB SHALL BE COMPLETED WITHIN THE STIPULATED TIME AS MENTIONED IN THIS PURCHASE ORDER

Handwritten signature and date: 06/07/2022

Handwritten signature
Authorized Signatory

PURCHASE ORDER

GID-MTL-F008 R6

w.e.f. 16.05.2022



GRAPHITE INDIA LTD.

Durgapur-713211, Dist :- Paschim Bardhaman, West Bengal
Phone :6670777399, 8670111899
E-mail : dgp_purchase@graphiteindia.com
Website : www.graphiteindia.com

GST No. : 19AAACC0457C1Z4

PAN No. : AAACC0457C

PO No DGM/0009/RH/CS-02-A-5

Date 06/07/2023

PO No Rev

Date

Inspection Terms

INSPECTION IN PLACE AT FINAL SHALL BE DONE BY M/S GIL & GUS AJI HORIZON CONSULTANTS & THE SAME SHALL BE AT M/S GIL & GUS AJI HORIZON CONSULTANTS DISCRETION

ALL THE INSTRUMENTS, EQUIPMENT, FACILITIES ARRANGEMENTS ETC. REQUIRE DURING INSPECTION, TESTING ETC. SHALL BE ARRANGED & PROVIDED BY YOU AT NO EXTRA COST TO GIL

Payment Instructions

100% AMOUNT OF JOB DONE ONLY DULY CERTIFIED BY CONCERN DEPARTMENT ALONG WITH APPLICABLE 100% GST AMOUNT SHALL BE RELEASED WITHIN 15 DAYS AFTER SUBMISSION FOR COMPLETION DULY CERTIFIED BY GIL AND ALSO SUBMISSION OF COMMERCIAL INVOICE - SHI AT LEAST IN TRIPLICATE

NOTE: STATUTORY DEDUCTION, IF ANY, SHALL BE DEDUCTED FROM YOUR PAYABLE AMOUNT

General Instructions

1. PLEASE ACKNOWLEDGE RECEIPT OF THIS PURCHASE ORDER SIGNIFYING YOUR ACCEPTANCE OF TERMS AND CONDITIONS THEREOF

2. FOR KATPS, TERMS AND CONDITIONS YOU REFER TO KATPS DATED INCLUDING ON 23.06.2023

3. WBS, DGM/0009/RH/CS-02-A-5

4. SUBMISSION OF SERVICE ENTRY SHEET WITH INVOICE TOGETHER WITH A COPY OF THIS ORDER IS MANDATORY

5. YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS FOR THE SAFETY & SECURITY OF YOUR WORKMEN FOR WHICH GIL WILL HAVE NO RESPONSIBILITY

6. STATUTORY DEDUCTIONS SHALL BE MADE FROM YOUR PAYABLE AMOUNT

7. YOU SHALL ENSURE INDUSTRY APPROVED SAFETY STANDARDS FOR THE SAFETY & SECURITY OF YOUR WORKMEN FOR WHICH GIL WILL HAVE NO RESPONSIBILITY

8. GST EXTRA SHALL BE PAID EXTRA AS APPLICABLE AT THE TIME OF DISPATCH OF MATERIALS HOWEVER THE PRESENT APPLICABLE STATUS IS GIVEN BELOW

- GST EXTRA @14%

GST AS MENTIONED IN THE F.O IS BASED ON PRESENT APPLICABLE RATES HOWEVER, THE SAME SHALL BE PAYABLE AT ACTUAL RATES AS APPLICABLE AT THE TIME OF DISPATCH OF MATERIALS 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 OF WHATSOEVER NATURE SHALL NOT BE

Handwritten signature and date: 06/07/2023

Handwritten signature

Handwritten signature and text: R. Chakraborty, Authorised Signatory

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05.2022



GRAPHITE INDIA LTD.

Durgapur-713211 Dist :- Paschen Bardhaman, West Bengal
Phone : 9870777399, 8670111899
E-mail : dgp_purchase@graphiteindia.com
Website : www.graphiteindia.com

GST No. : 19AAACC0457C1Z4
PAN No. : AAACC0457C

PO No	COM 830001993	Date	05.07.2023
PO No Rev		Date	

MATERIALS BY GIL FOR WHATSOEVER REASONS AT THE DISPATCH OF THE MATERIAL AS WELL AS IN CASE CONTRACTUAL DELIVERY WORK COMPLETION PERIOD IS NOT MAINTAINED BY YOU

9. TERMINATION CONTRACTOR SHALL BE TERMINATED

- i. IF SAFETY WARNERS ARE VIOLATED AT ANY STAGE OF WORK
- ii. IF QUALITY OF CONSUMABLE ARE NOT AS PER APPROVED QUALITY
- iii. IF THE WORK IS NOT COMPLETED WITHIN THE STIPULATED TIME

10. QUANTITY & TOTAL VALUE VARIATION SINCE THE QUANTITIES ARE ESTIMATED, VARIATION IN QUANTITY & / OR TOTAL ESTIMATED VALUE IF ANY, GIL WILL AMEND THIS PURCHASE ORDER OR WILL ISSUE A SEPARATE PURCHASE ORDER AS PER AGREED UNIT RATES MENTIONED ABOVE

11. THE SAME ARE NOT COVERED ABOVE, THE SAME SHALL BE MUTUALLY DECIDED BASED ON AGREED RATES FOR SIMILAR TYPE OF JOBS OR ITEMS AND / OR ON THE BASIS OF COST ANALYSIS TO BE APPROVED BY GIL. HOWEVER, THERE IS NO BINDING TO GIL THROUGH THIS PURCHASE ORDER THAT IF THE QUANTITY EXCEEDS THE ABOVE MENTIONED QUANTITY, THE REPEAT WORKS WILL BE GIVEN TO THE VENDOR / CONTRACTOR. HENCE ONCE THE QUANTITY EXCEEDS VENDOR / CONTRACTOR SHOULD IMMEDIATELY INFORM TO GIL FOR FURTHER COURSE OF ACTION.

11. SPECIAL CLAUSES PERTAINING TO ISO 14001

- A. PLEASE MAKE SURE THAT YOUR PERSONNEL WHO WILL BE COMING FOR THE JOB ARE COVERED UNDER THE EMPLOYED CLAIM INSURANCE
- B. PERSONNEL WHO WILL BE WORKING MUST HAVE ADEQUATE SAFETY PROTECTION LIKE HELMET, GOGGLES, SPECTACLES, FACE MASK ETC. AS APPLICABLE FOR THE TYPE OF JOB
- C. FOR HANDLING HAZARDOUS MATERIAL YOU MUST HAVE HAZARDOUS WASTE HANDLING CLEARANCE FROM CONCERNED STATUTORY AUTHORITY.
- D. VENDOR TO GET THE SITE CLEARANCE CERTIFIED BY DE (BILL MUST ALSO BE CERTIFIED BY THE MENTIONING SITE OFFICER)
- E. ANY ENVIRONMENTAL DAMAGE OCCURRING DUE TO THE SERVICES PROVIDED BY THE VENDOR WILL BE FINALIZED AS LIABILITY BY THE ORGANIZATION (CONCERNED UNIT) CLEARLY IN BILLS

- F. ALL INCOMING VEHICLES SHOULD HAVE VALID PUC (POLUTION UNDER CONTROL) AS PER MOTOR VEHICLES ACT
- G. ALL INCOMING VEHICLES SHOULD HAVE VALID REGISTRATION & INSURANCE CERTIFICATES
- H. THE DRIVERS OF ALL INCOMING VEHICLES SHOULD POSSESS VALID DRIVING LICENCE
- I. ALL INCOMING PLASTIC PACKINGS SHOULD BE MORE THAN 10 CM THICK
- J. ALL INCOMING TANKERS CARRYING HAZARDOUS LIQUID SHOULD HAVE TRIM CARD WITH THE DRIVERS
- K. SUPPLIERS OF ALL TYPES OF BATTERIES MUST BUYBACK TAKE BACK OLD BATTERIES LEFT TO WASTED BATTERIES
- L. VOS'S CERTIFICATE TO BE SUPPLIED WITH ALL NEW BATTERIES SUPPLY OF CHEMICAL

06/07/2023
6/7

Authorised Signatory

PURCHASE ORDER

GID-MTL-F008 R6
w.e.f. 16.05 2022



GRAPHITE INDIA LTD.

Durgapur-713211, Dist. :- Paschim Bardhaman, West Bengal
Phone :867077/399, 8670111899
E-mail : dgj_purchase@graphiteindia.com
Website : www.graphiteindia.com

GST No. : 19AAACC0457G1Z4
PAN No. : AAACC0457C

PO No	DOM860901963	Date	05.04.2023
PO No Rev		Date	

LUBRICANTS OR HAZARDOUS MATERIAL

11. REGISTERED OFFICE & CONTACT DETAILS
MAXIPOW4 LTD INDIA
31 CHOWRINGHEE ROAD, KOLKATA 700016
TELEPHONE NO. 91-33-40029600 FAX NO. 91-33-40029676
CIN: L10102WB1974PLCC034602 E-MAIL ID: GILRO@GRAPHITEINDIA.COM

GST NO. : 19AAACC0457G1Z4

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 BE TAKEN OUT OF PLANT PREMISES THAT TOO ONLY AFTER THE COMPLETION OF JOB.

14. JURISDICTION: ANY DISPUTE RELATING TO THIS PURCHASE ORDER SHALL BE DEEMED TO HAVE AROSEN 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.

15. 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.

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 from time to time and to ensure that such compliance is done within the time prescribed under such laws. Supplier/Service Provider shall ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTR.

TDS will be deducted as per section 194C of Income Tax Act. Effective from 01.07.2017 wherever applicable.

Handwritten notes:
05/04/2023
Amh
617

REGISTERED & H.Q. 31 CHOWRINGHEE ROAD, KOLKATA-700016
CIN: L10102WB1974PLCC034602
Telephone No. : 91-33-40029600 FAX: 91-33-40029676
E-mail: dgj_purchase@graphiteindia.com Website: www.graphiteindia.com

Handwritten signature
Authorised Signatory

SES NO - 1000202797

dated 26/08/2023

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

Ref. No.

Date

BILL

TO M/S GRAPHITE INDIA LTD ORDER NO-DOM/8600001963 DATE-05.07.2023
DURGAPUR -11 BILL NO.- PC/2023-24/ 123 DATE- 25.08.2023
GST NO. 19AAACC0457C1ZA

SES NO....

Sl. No.	PARTICULARS	QUANTITY		RATE	AMOUNT	
					Rs.	P
1	Civil Works including Building sheeting. HSN NO/SAC CODE-9987 Specification Towards the charges for Bricks work for making 10" Thick wall with 1st class brick including all supply. Towards the charges for Pastering Works including all supply. Towards the charges for Providing Fabrication & Fixing of ISA 75 (6000mm x12 Pcs =72 mtr. @6.8 kg / mtr= 489.60 kg) Towards the Charges for Providing, Fittings & fixing of "TATA" make Galvalume roof sheet. 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			
		FT2	270.000	489.00	132030	00
		FT2	1150.00	200.00	230000	00
		TO	0.490	74820.00	36661.80	00
		M2	324.000	460.00	149040	00
		AU	1.000	40000.00	40000	00
	TOTAL				587731.80	00
	SGST 9%				52896	00
	CGST 9%				52896	00
	TOTAL				693524	00

E. & O. E

Rupees in words:- Six Lakh Ninety Three Thousand Five Hundred Twenty Four Only.

C. P. Thakur
For M/s PRAKASH CONSTRUCTION

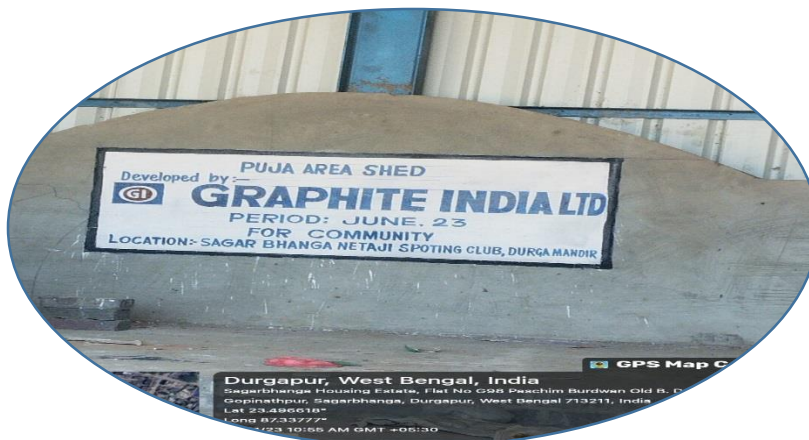
Site Cleared & No Environmental Damage Created.

Quality of Jobs(Please Tick):Excellent/Good/Average/Below Average

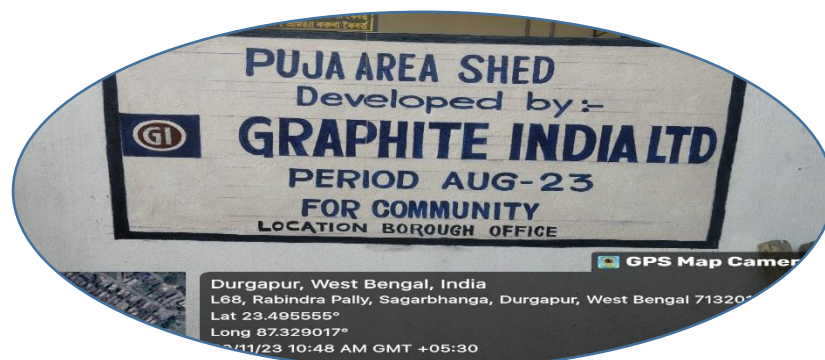
Completion of jobs(Please Tick):1. Within the given delivery date, 2. After 7 Days,
3. After 15 Days, 4. More than 15 Days.

GSTIN- 19ACTPT7641P1ZA

Job done
[Signature]



Puja shed in Sagarbhanga locality within 5 km radius



Puja shed in Borough Office locality within 5 km radius

Annexure - 13



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
- b) Upgrading technology level through continual improvement for prevention and reduction of pollution.
- c) Operating and maintaining the facilities so as to ensure compliance with all applicable legal and other obligations
- d) Determining the risk and opportunities related to its environmental aspects and compliance obligations
- e) 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


A. DIXIT
EXECUTIVE DIRECTOR

Annexure - 14

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
Sagarbhangra, 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**



Certification Body
at TÜV NORD CERT GmbH

Mumbai, **05.09.2023**

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



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
Sagarbhangra, 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**

Valid from **11.06.2023**
Valid until **10.06.2026**
Initial certification **11.06.2023**



Certification Body
at TÜV NORD CERT GmbH

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



নোটিস

এতদ্বারা জনসাধারণকে জানানো যাইতেছে যে স্টেট এনভায়রনমেন্ট ইমপ্যাক্ট অ্যাসেসমেন্ট অথরিটি (SEIAA), পশ্চিমবঙ্গ, মৌজা গোপিনাথপুর জেলা পশ্চিম বর্ধমান, পশ্চিমবঙ্গ JL নং ৮৫ এবং মৌজা নড়িয়া JL নং ৯২ প্লটে অবস্থিত, মেসার্স গ্রাফাইট ইন্ডিয়া লিমিটেড, সাগরভাঙ্গা, দুর্গাপুর, EC আইডেন্টিফিকেশন নং ০১ ৩০২৪০৭৪০৪০৭ 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 দূষণ নিয়ন্ত্রণ পার্সদ এর সাথে উপলব্ধ।

Vivo V15 Pro
AI Triple Camera

গ্রাফাইট ইন্ডিয়া লিমিটেড,
সাগরভাঙ্গা,
দুর্গাপুর-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 Burdwan in 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 Burdwan is under Charge

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Bank or Financial

AI Triple Camera

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: 2880 Sq. Ft.

Kripa Sankar Mondal
Advocate

District Judges Court,
Burdwan Bar Association
Room No. 07, (Rashbihari
Kashya)

Phone No.: 8348761945/
9064544734

20655-3481254

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, Sagarbhangha, 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, WB and the same is available with WBPCB.

M/s Graphite India
Limited, Sagarbhangha,
Durgapur-713211

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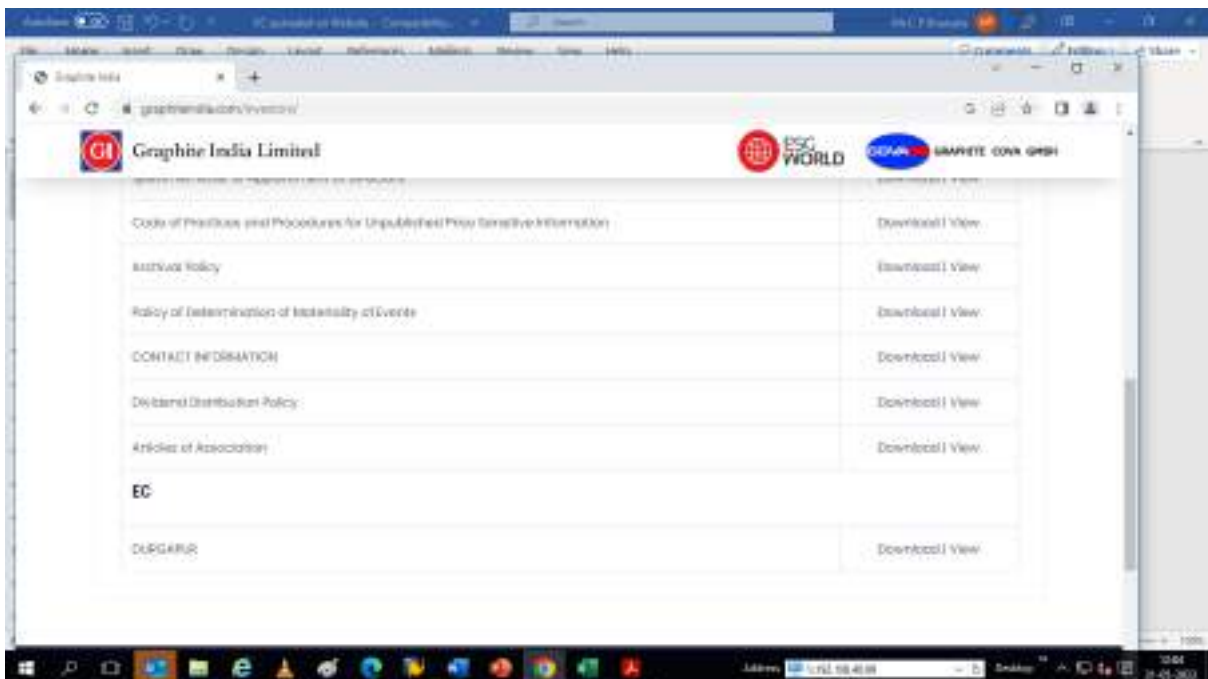
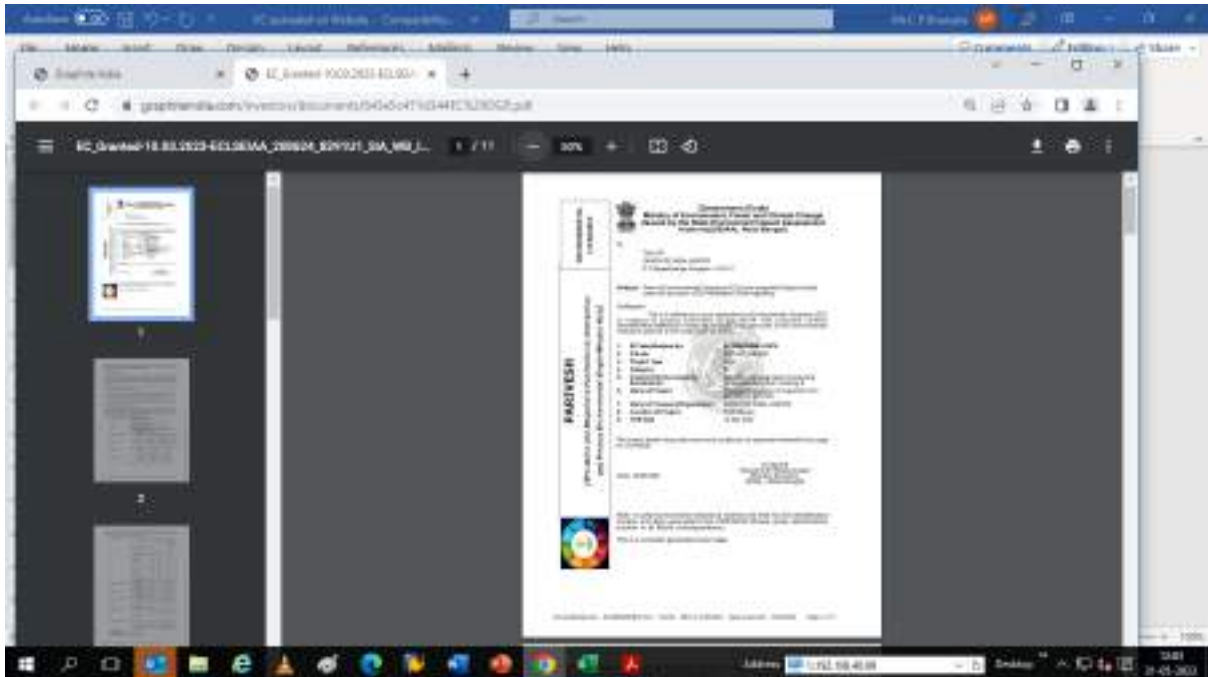
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<https://graphiteindia.com/investors/documents/643e5c471d344EC%20DGP.pdf>

Link of EC uploaded on Website of www.graphiteindia.com under Investor relation page below Corporate Governance



Annexure - 16



GRAPHITE INDIA LIMITED

DURGAPUR, THIRUHI, DIST. BURDWAN
E-Mail: general_office@graphiteindia.com

DT: 13.03.2023

To,
The Office of the Sabhadhipati,
Paschim Bardhaman Zilla Parishad,
Govt. of West Bengal.

Ref: EC Identification no. EC23B020WB141674 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,

This is in reference to above mentioned Environmental clearance, we are submitting the copy of EC as per the attached EC condition in Point XI, ii of page 7 for your display of the same for 30 days from the date of receipt of this letter.

Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above





GRAPHITE INDIA LIMITED

DURGAPUR 712211, DIST. BURDWAN
E-Mail: general_doo@graphiteindia.com

Dt: 13.03.2023

To,
The Office of Additional District Magistrate (LR),
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 Chakraborty
Vice President (Works)

Enclosed - As above

Received
but Contents are not verified
B. Chakraborty
13/03/23
Removing Clerk
DL&LR, Paschim Bardhaman



GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST- BURDWAN
E-Mail: general_inq@graphiteindia.com

Dt: 13.03.2023

To,
The Office of District Magistrate,
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 Chakraborty
Vice President (Works)

Enclosed - As above





GRAPHITE INDIA LIMITED

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 Chakraborty
Vice President (Works)

Enclosed - As above

Received No. 327 dt. 13/03/23
RECEIVED WITHOUT VERIFICATION

Receiving Staff
Block Development Office
Durgapur Faridpur



GRAPHITE INDIA LIMITED

DURGAPUR 713211, DIST: BURDWAN
E-Mail: general_mgr@graphiteindia.com



Dt: 13.03.2023

To,
The Office of Environmental Engineer,
West Bengal Pollution Control Board,
Durgapur Regional Office,
Sahid Khudiram Sarani,
City Center,
Durgapur - 713216.

Ref: EC Identification no. EC238020WB141674 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,

This is in reference to above mentioned Environmental clearance, we are submitting the copy of EC as per the attached EC condition in Point XI, ii of page 7 for your display of the same for 30 days from the date of receipt of this letter.

Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above



GRAPHITE INDIA LIMITED

DURGAPUR 713211, DIST- BURDWAN
E-Mail : general_dgp@graphiteindia.com

Dt: 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

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.

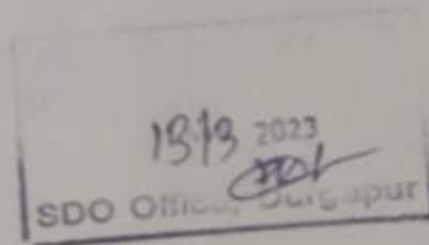
Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above





GRAPHITE INDIA LIMITED

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

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Dear Sir,

This is in reference to above mentioned Environmental clearance, we are summiting the copy of EC as per the attached EC condition in Point XI, iii of page 7 for your display of the same for 30 days from the date of receipt of this letter.

Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above

GDOS
13-3-2023
Received (Contents not Verified)
Anc. Ind. Dev. Cell & Sub-DIC., Durgapur
Durgapur, Govt. of West Bengal



GRAPHITE INDIA LIMITED

DURGAPUR 713211, DIST. BURDWAN
E-Mail: general_mgr@graphiteindia.com

Dt: 13.03.2023

To, *Commissioner*
The Office of the Durgapur Municipal Corporation,
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

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 submitting the copy of EC as per the attached EC condition in Point XI, iii of page 7 for your display of the same for 30 days from the date of receipt of this letter.

Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above

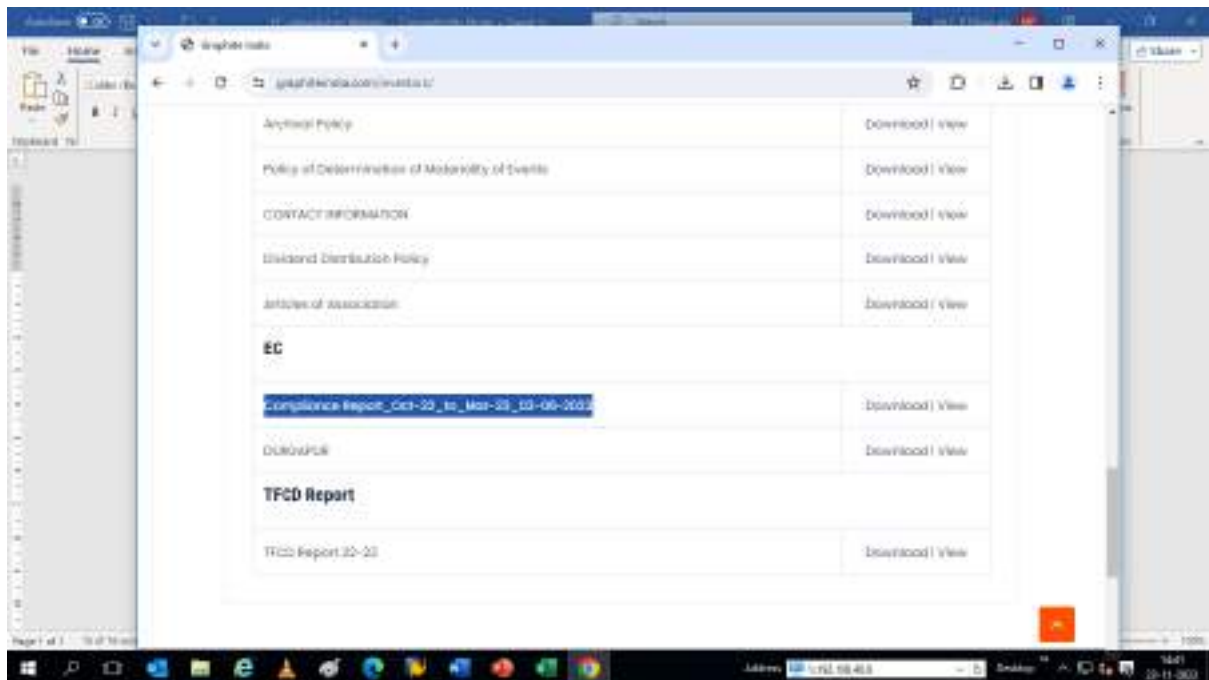
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Received
13/03/23
Durgapur Municipal Corporation

Annexure - 17

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 www.graphiteindia.com under Investor relation page page below **EC heading**





Annexure - 18

GRAPHITE INDIA LIMITED

DURGAPUR-713211, DIST. - BURDWAN
E-MAIL : general_dgp@graphiteindia.com



Dt: 14.09.2023

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 31st 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

Annexure - 19

LED Light Photographs

