



GRAPHITE INDIA LIMITED

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

To
The IGF& In charge, GOI, MOEF&CCA/3, Chandrasekharpur
Integrated Regional Office
Kolkata, 1B-198, Salt Lake City, Sector III
Kolkata- 700106
Email ID- iro.kolkata-mefcc@gov.in

Date: 25.05.2024

Sub.: **Submission of Six Monthly Compliance Report for the period of October 2023 to March 2024**

EC Ref.No. : EN/T-II-1/128/2021, Date 10/03/2023

Sir,

We are pleased to submit the six monthly compliance reports along with necessary enclosures regarding "Proposed Expansion of Capacity from 52 KTPA to 67 KTPA" by Graphite India Limited, JL No. – 85 & 92, Vill – Sararbhang, Durgapur, Dist. – Paschim Bardhaman, West Bengal.

The Compliance Report has been prepared against the conditions mentioned in the Environmental Clearance vide Ref. no. **EN/T-II-1/128/2021, Date 10/03/2023**

We hope that you will do the needful in this regard.

Thanking you

Yours truly,

For Graphite India Limited,

Ranadeep Chakraborty
(Executive Vice President Works)

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.	:	Consent to Establish / 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 applied Annexure -2 (a) .
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 comply with 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	:	24x7 continuous emission system at 15 KTPA expansion project process stack to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules,

Sl.	Compliance conditions	:	Compliance status
	SPCB and CPCB online serves and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		1986 is installed. Commissioning is in process. Photos Attached 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° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous).	:	Continuous Ambient Air Quality Monitoring is installed. Commissioning is in process. The project proponent has monitored Ambient Air Quality from NABL accredited lab. Reports are attached as Annexure – 4. Photos 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 Commissioning to Regional Office of Ministry of Environment, Forest & Climate Change / State Environment Impact Assessment Authority /State Pollution Control Board / Zonal office

Sl.	Compliance conditions	:	Compliance status
			of CPCB along with six-monthly 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		This condition is not in project configuration.

Sl.	Compliance conditions	:	Compliance status
	November, 2012 as amended time to time shall be followed.		
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 has installed web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises. Commissioning in process. Photos 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.

Sl.	Compliance conditions	:	Compliance status
iv.	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air / Water Act, whichever is more stringent.		The effluent discharge conforms to the standards prescribed under the Environment (Protection) Rules, 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.
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 implemented rainwater harvesting as proposed in EIA. Photographs of existing rainwater harvesting tank is attached herewith. Annexure – 6.
ix.	The project proponent shall make efforts to minimise water consumption in the complex by		The project proponent has made efforts to minimize water consumption in the complex by

Sl.	Compliance conditions	:	Compliance status
	segregation of used water, practicing cascade use and by recycling treated water.		segregation of used water and by recycling treated/filtered water.
iv.	Noise monitoring and prevention		
i.	Acoustic enclosure shall be provided to DG set 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 Greenbelt within project and colony areas.</p> <p>Green belt at the project area developed as per proposal by planting 688 Plants. Mango – 180 nos, Bakul – 143 nos, Radha Chura- 138 & Krishna Chura- 79 nos , Jack Fruit- 148 nos.</p> <p>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</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.		and new colony are attached as Annexure – 7.
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 has installed display board for display of relevant environmental parameters. Photographs 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; PM10, S02, NOx (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; PM10, S02, NOx (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.

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,
Sagarbhanga, 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/128/2021 dated 10.03.2023

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed expansion Graphite India limited, Sagarbhanga, Durgapur-713211, Paschim Bardhaman, W.B. for manufacturing/storage/installation of one Baking Furnace (Ricohammer Baking Furnace, RH 24 section Unit-III) & released accessories replacing one old Recirculating Baking Furnace for increase in finished product capacity from 52 KTPA to 67 KTPA (additional production of 15000 MTPA) at existing Unit at Sagarbhanga, Durgapur, Paschim Bardhaman, West Bengal. 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.

Mink
09/03/2023
Chief 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,

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

Memo No. **151** - 2N-08/2020(E)-Pt.-I *dd. 31.03.2023* Dated.....
Copy forwarded for information to :
W. B. Pollution Control Board
Kolkata-700 001
Dept. of Environment, Govt. of W.B.

- 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, I/II/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	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
---------------------------------------------------------	----------------------------------------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------

Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling
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Satya Chowdhury
Indoor Stadium
Balurchar Bandh Road
Malda-732101

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

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

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.

W.B. Pollution Control Board
31/03/2023
Chief Engineer
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.

Application No. 3832565
WEST BENGAL POLLUTION CONTROL BOARD



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

Consent Letter Number : C0144055

Memo Number : 594-7/WPBD - Cont (408)/98 (Pt-VII) Date : 30/10/2023.

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 P.O.-Sagarbanga, Durgapur,
P.S.- Coke Oven, Dist.- Paschim Bardhaman, 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

R. Sinha 30/10/2023
(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 P.O.- Sagarbhangra, Durgapur, P.S.- Coke Oven, Dist.- Paschim
 Bardhaman, 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	Finished Graphite Electrode	15000 Ton/Year
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 exceedKL.
05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceedKL.
06. The *Applicant* shall discharge liquid effluent to(place of discharge)
 throughnos. outlets / outfalls. Zero discharge shall be maintained.
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.

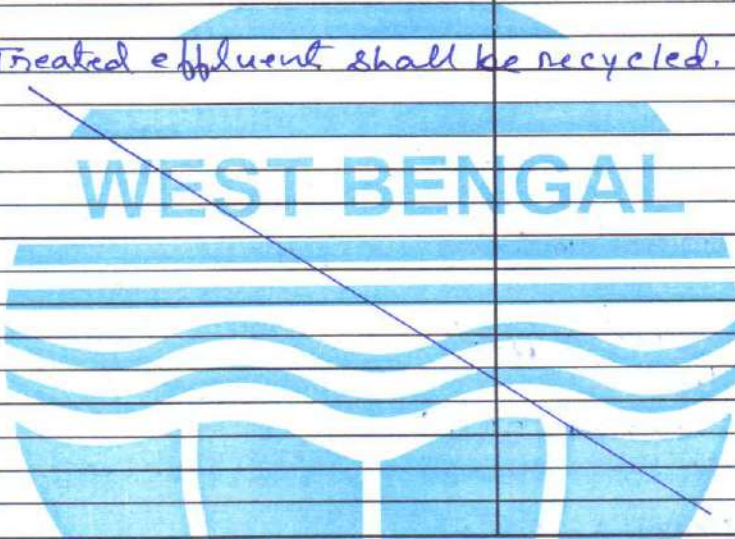
(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

R. Sinha
 30/10/2023
 Environmental Engineer
 W. B. Pollution Control
 Operation & Execution Cell

CO144055

Consent to ⁽³⁾ M/s. Graphite India Limited
 for its unit at P.O. - Sagarbhangra, Durgapur, P.S. - Coke Over, Dist. - Paschim Bardhaman, Pin - 713211

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
1	Domestic	pH	Between: 5.5 to 9.0	Half Yearly
2	Industrial	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.	
Treated effluent shall be recycled.				
				

09. The Applicant falls in the 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 →KL
(Water used for gardening should be included in this category of use)
- Domestic purpose →1.3.....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.

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

Signature
30/10/2023

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

Consent to M/s. Graphite India Limited

for its unit at P.O. - Sagarkhanga, Durgapur, P.S. - Coke Oven, Dist. - Paschim Bardhaman, 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-I	15	Finishing unit with Bag Filter			30	-		Half-Yearly
S-2	15	Finishing unit (nipple) - Bag Filter			30	-		-Do-
S-3	45	Baking Furnace RH 24(III) with ESP			30	-		-Do-
S-4	24.3	Stock cleaning machine with Bag Filter			30	-		-Do-
S-5	22.4	Jaw Crusher machine with Bag Filter			30	-		-Do-
S-6	15	500 KVA D.G. Set		-	150	-		Yearly
S-7	15	500 KVA D.G. Set		-	150	-		-Do-
S-8	15	500 KVA D.G. Set		-	150	-		-Do-
S-9								
S-10								

R. Sinha
30/10/2023

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

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

CO144055

(5)

Consent to M/s. Graphite India Limited
 for its unit at P.O. - Sagarbanga, Durgapur, P.S. - Coke oven, Dist. - Paschim
Bardhaman, 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	HSD		D.G. Sets.
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
Graphite Finer, Graphite Endcut Scrap, Metacoke Residue Finer, Rattle Scrap, coke fines, cpc Residue fines.			Sale

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.)	65
Night Time (10 p.m. to 06 a.m.)	55

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.)

Minha 30/10/2023

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

Continued.....

Consent to Ms. Graphite India Limited
 for its unit at P.O. - Sagarbhanga, Durgapur, P.S. - Coke Oven, Dist. - Paschim
Bardhaman, 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 120 (~~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

1. The unit shall operate in compliance with the EC and CTE conditions.
2. Hazardous wastes shall be disposed off as per HWM Rules, 2016.

R. Sinha
 30/10/2023
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell



WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA
Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Category of the Industry : RED

Application Type: CTO

CTO No.: WBPCB/4403447/2023

Date : 05/01/2024

Consent to Operate (CTO) under 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.

Reference: Application No.: 4403447

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 Consent to **GRAPHITE INDIA LIMITED** (hereinafter referred to as Applicant) for its unit located at **Sagarbhanga, DMC ward no.-28, P.O.- Sagarbhanga, P.S.- Coke Oven, Paschim Bardhaman-713211**, for the period from **05/01/2024** to **30/11/2028** to operate the industrial unit/project and to discharge liquid effluent and gaseous emission from the premises / land of the industrial unit/project, in accordance with the conditions as mentioned below, provided that 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 this consent letter and in the Environment (Protection) Act, 1986 and Rules thereunder, as amended.

Breach of the conditions and / or failure to comply with the directions as mentioned below shall render the industry/project liable for prosecution under the provisions 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.

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 industry.

Conditions :

1 This Consent is valid for the following activities :

Sl.No	Name of Activity/Products/By-products	Production Capacity (Per Month)
1	Graphite Electrode	67000 Metric Tonnes/Year

2 The industry shall remain responsible for quantity and quality of liquid effluent and air emission.

3 Daily waste water generation and discharge shall not exceed :

No. of outlets	Source of Waste Water	Quantity in Kilo Liters/day	Place of discharge
	Various sections of the plant and wash basins	154 KLD	Entirely recycled for various plant purposes after treatment
	Sanitation activities of employees	11 KLD	Soakpit via septic tank

4 To bring into any altered or new outlet / outfall or to change the place of discharge, the industry shall have to inform the Board and obtain prior permission of the Board in this effect.

- 5 The industry 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 below:

Outlet No.	Nature of effluent	Parameters and standard			Frequency of sampling
		Parameters	Standards	Unit	
	Domestic	pH	5.5 - 9.0		-----
		Chemical Oxygen Demand (COD)	250	mg/L	
		Biological Oxygen Demand (BOD)	30	mg/L	
		Total suspended Solid (TSS)	100	mg/L	
		Oil & Grease	10	mg/L	

Provisions shall be made to install sensor-based Water Quality monitoring system and flow meter to share the information with the state board on a Real Time basis.

- 6 Daily water consumption for the following purposes shall not exceed

SL NO.	Purpose of Water Use	Quantity (KL/Day)
1.	Domestic	40.0
2.	Others(Washing)	1.0
3.	Boiler	30.0
4.	Cooling	600.0
5.	Process	135.0
6.	Others(Plantation)	130.0

- 7 The Industry shall install suitable digital device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board. The device shall be able to provide information to disseminate the quantity on a real time basis.
- 8 All the stacks connected to various sources of emissions must be designated by numbers.
- 9 The industry shall install comprehensive pollution control equipment and operate and maintain the same to conform to the standard as given below:

Stack height from ground level (m)	Stack attached to emission sources	Capacity of emission source	Fuel details		Control system (if any)	Concentrations of parameters not to exceed							Frequency of sampling	Cons-up-Unit	Remarks
			Fuel used	Quantity		PM(mg/Nm ³)	CO(%)	Acid Mist(mg/Nm ³)	Pb(mg/Nm ³)	SO ₂ (mg/Nm ³)	NOX(mg/Nm ³)	Others			
30	RH baking furnace(14 sec, 42MT/charge)	42	CBM	0 Metric Tonne/Day	ESP	150	1						Half-yearly	Metric Tonne	
30	Tunnel kiln#1 (Re-baking furnace, 4.6TPH)	4.6	CBM	250 Cubic Meter s/Hour	Incinerator	150	1						Half-yearly	Metric Tonne s/Hour	
30	Tunnel kiln#2 (Re-baking furnace, 4.6TPH)	4.6	CBM	250 Cubic Meter s/Hour	Incinerator	150	1						Half-yearly	Metric Tonne s/Hour	
45	RH#2 baking furnace(24 sec,3.8TPH)	3.8	CBM	90 Cubic Meter s/Hour	ESP	150	1						Half-yearly	Metric Tonne s/Hour	
45	RH#3 baking furnace(24 sec,3.8TPH)	3.8	CBM	105 Cubic Meter s/Hour	ESP	30	1						Half-yearly	Metric Tonne s/Hour	
30	TFH-3 nos. (4 lac-kcal/hr each) [PI#2]	120000	CBM	120 Cubic Meter s/Hour		150	1						Half-yearly	KCAL/HOUR	

45	RH#1 (24-section, 80MT/charge) & RH (16-section, 80MT/charge)	160	CBM	Cubic Meter s/Hou r	ESP	150	1						Half-yearly	Metri c Tonne
30	HGG-4nos. (2 lac-kcal/h r each) [PI#2]	800000	CBM	Cubic Meter s/Hou r	Water scrub ber	150	1						Half-yearly	KCA L/HO UR
29.29	Boiler (1.5T on & 2Ton) [Extru sion# 1]	3.5	CBM	86 Cubic Meter s/Hou r		100	1						Half-yearly	Metri c Tonne s/Hou r
14.1	DG set (500K VA) [of RH#1 (24-sections)& RH-16 sections]	500	HSD	0.1 Kilo Liters/ Hour		150	1						Yearly	KVA
13.91	DG set (630K VA) [For Tunne l Kiln]	630	HSD	1.02 Kilo Liters/ Hour		150	1						Yearly	KVA
13.2	DG set (500K VA) [For RH#2 (24-sections)]	500	HSD	0.1 Kilo Liters/ Hour		150	1						Yearly	KVA
13.2	DG set (500K VA) [For RH#2 (24-sections)]	500	HSD	0.1 Kilo Liters/ Hour		150	1						Yearly	KVA

14.1	DG set (500K VA) [of RH#1 (24-sections)& RH-16 sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
8.0	DG set (250K VA) [For LWG #3]	250	HSD	0.05 Kilo Liters/Hour		150	1						Yearly	KVA	
11.5	DG set (500K VA) [For LWG #4]	500	HSD	0.1 Metric Tonne/Day		150	1						Yearly	KVA	
15.0	DG set (500K VA) [For RH#3, 24-sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
13.27	DG set (1010 KVA) [For Extrusion#2]	1010	HSD	0.2 Kilo Liters/Hour		150	1						Yearly	KVA	
7.5	DG set (250K VA) [For RH-14 sections]	250	HSD	0.05 Kilo Liters/Hour		150	1						Yearly	KVA	
13.27	DG set (1010 KVA) [For Extrusion#2]	1010	HSD	0.2 Kilo Liters/Hour		150	1						Yearly	KVA	

13.2	DG set (500K VA) [For RH#2, 24-sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
14.1	DG set (500K VA) [of RH#1 (24-sections)& RH-16 sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
14.5	DG set (750K VA) [FOR LWG #5]	750	HSD	0.15 Kilo Liters/Hour		150	1						Yearly	KVA	
13.91	DG set (630K VA) [For Tunnel Kiln]	630	HSD	0.12 Kilo Liters/Hour		150	1						Yearly	KVA	
15.0	DG set (500K VA) [For RH#3, 24-sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
15.0	DG set (500K VA) [For RH#3, 24-sections]	500	HSD	0.1 Kilo Liters/Hour		150	1						Yearly	KVA	
30	Mixture Fume Extractor (North) [Extrusion# 1]	0	NA	Metric Tonne/Day		150							Half-yearly	Metric Tonne/Day	

15	Finishing Unit# 3 (South Side) Nipple Dust Collector	0	NA	Metric Tonne s/Day	Bagfilter	150							Half-yearly	Metric Tonne s/Day
22	RH#3 24-section Jaw Crusher Dust Collector	0	NA	Metric Tonne s/Day	Bagfilter	30							Half-yearly	Metric Tonne s/Day
22	RH#2 24-Section Jaw Crusher Machine Dust Collector	0	NA	Metric Tonne s/Day		150							Half-yearly	Metric Tonne s/Day
15	Extrusion #2 IRICH (Trem a) Scrubber System	0	NA	Metric Tonne s/Day	Water scrubber	150							Half-yearly	Metric Tonne s/Day
30	Cooler North (Extrusion# 1)	0	NA	Metric Tonne s/Day		150							Half-yearly	Metric Tonne s/Day
30	Fume Extractor (West side, weigh floor) [Extrusion# 1]	0	NA	Metric Tonne s/Day	Bagfilter	150								Metric Tonne s/Day
34	Extrusion#2 main dust collector	0	NA	Metric Tonne s/Day	Bagfilter	150							Half-yearly	Metric Tonne s/Day

16	Raymond Mill Dust Collector (Extrusion# 1)	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Scrap System Dust Collector (Extrusion# 1)	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
34	Extrusion#2 IRIC H Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Core Sampling Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
22	Main Dust Collector (Extrusion# 1)	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Finishing Dust Collector (Unit# 3)	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Extrusion#2 Raymond Mill Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Extrusion#2 Silo Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day

15	RH-16 Stock Cleaning Machine Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	RH-16 Jaw Crusher Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Finishing Unit# 2 Nipple line Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	RH#1 24-Section Stock Cleaning Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
15	Carbon Baked Scrap (CBS) Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day
17.5	Finishing#4, Electrode Line Dust Collector Stack	0	NA	Metri c Tonne s/Day	Bagfil ter	30							Half-yearly	Metri c Tonne s/Day
22	RH#3 24-Section Stock Cleaning Machine Dust Collector	0	NA	Metri c Tonne s/Day	Bagfil ter	30							Half-yearly	Metri c Tonne s/Day

30	Hot Gas Generator-4 nos. (6.9MT/charge each) [PI#3]	27.6	CBM	120 Cubic Meter s/Hour	Water scrubber	150	1						Half-yearly	Metri c Tonne
17.5	Finishing#4, Nipple Line Dust Collector	0	NA	Metri c Tonne s/Day	Bagfilter	30							Half-yearly	Metri c Tonne s/Day
18	Acheson Dust Collector	0	NA	Metri c Tonne s/Day	Bagfilter	150							Half-yearly	Metri c Tonne s/Day
17	Extrusion#2 Scrap system Dust collector	0	NA	Metri c Tonne s/Day	Bagfilter	150							Half-yearly	Metri c Tonne s/Day
30	RH#2 24-section Stock Cleaning Machine Dust Collector	0	NA	Metri c Tonne s/Day	Bagfilter	150							Half-yearly	Metri c Tonne s/Day
15	Turning-1 Machine Dust Collector	0	NA	Metri c Tonne s/Day	Bagfilter	150							Half-yearly	Metri c Tonne s/Day
30	Cooler South (Extrusion# 1)	0	NA	Metri c Tonne s/Day		150							Half-yearly	Metri c Tonne s/Day
30	TFH-3 nos. (4 lac-kcal/hour each) [PI#3]	1200000	CBM	120 Cubic Meter s/Hour		150							Half-yearly	KCAL/HOUR

30.5	TFH-3nos. (15 lac-kcal/hr each) [PI#4]	4500000	CBM	450 Cubic Meter s/Hou r		150	1						Half-yearly	KCA L/HO UR	
15	Fine screening dust collector (By-product unit)	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day	
15	PI#2 Turning Machine Dust Collec tor	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day	
15	PI#3 Turning Machine Dust Collec tor	0	NA	Metri c Tonne s/Day	Bagfil ter	150							Half-yearly	Metri c Tonne s/Day	
30	Mixture Fume Extrac tor (Sout h) (Extru sion# 1)	0	NA	Metri c Tonne s/Day		150							Half-yearly	Metri c Tonne s/Day	
30	TFH-2 nos.(4 lac-kcal/hr each) [Extru sion# 2]	800000	CBM	80 Cubic Meter s/Hou r		150	1						Half-yearly	KCA L/HO UR	
35.8	Pre-Heate r (4.8 lac-kcal/hr each) [PI#4]	1920000	CBM	240 Cubic Meter s/Hou r		150	1						Half-yearly	KCA L/HO UR	

15.0	Finishing Dust Collector (Unit# 2)	0	NA	Metric Tonnes/Day	Bagfilter	150							Half-yearly	Metric Tonnes/Day	
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10 The industry 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 authorized agencies.

11 Waste generation, treatment and disposal shall be as specified below :

S.No	Description of Waste	Quantity	Treatment and Disposal
1	Kitchen & office wastes	0.1 Metric Tonnes/Day	Through local conservancy
2	Discarded asbestos	574 Kilogram/Month	CHWTSDF
3	ETP sludge	417 Kilogram/Month	CHWTSDF
4	Thermocol wastes	14.75 Kilogram/Month	As per provisions of Plastic Waste Management Rules, 2016 & as amended
5	Used oil	1.5 Kilo Liters/Month	To be given to registered reprocessors or disposed as per provisions of HW Rules
6	Waste oil	1.54 Kilo Liters/Month	To be given to registered reprocessors or disposed as per provisions of HW Rules
7	Discarded paint drums	167 Kilogram/Month	CHWTSDF
8	Oil contaminated cloth/jute	1736 Kilogram/Month	CHWTSDF
9	Wasted plastic sheets (Metwrap)	396 Kilogram/Month	to be given to registered recyclers
10	Coal Tar (from ESP)	40 Metric Tonnes/Month	To be given to registered reprocessors or disposed as per provisions of HW Rules

The Industry shall obtain Authorisation for waste and also register for EPR wherever applicable.

12 The industry shall take adequate measures for control of noise level from its own sources within the premises within the limit given below :

Time	Limit in dB (A) Leq
Day time (06 a.m. to 10 p.m.)	65
Night time (10 p.m. to 06 a.m.)	55

Noise barriers should be installed if the Noise Level is found to be exceeding the desired levels.

13 The industry shall at all times maintain good house-keeping and control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and in surrounding areas.

14 The Industry shall bring about at least 33% of the total land area under the tree cover.

15 The Industry shall provide sufficient alternate electric power source like Green DG or Storage Battery System etc. to operate all pollution control facilities. In absence of such alternate power source, the production shall be stopped/controlled to conform to the conditions of the Consent.

16 The industry shall install a separate energy meter showing the consumption of energy for operation of pollution control devices and shall install suitable device for measuring the volume of water consumed for different purposes as mentioned in Sl.No. 3.

17 The Industry shall provide drainage system for discharge of industrial and domestic effluent and a separate drainage system for storm-water.

- 18 The industry shall maintain a separate register showing consumption of chemicals used in pollution control systems.
- 19 The Industry shall get the samples of hazardous wastes / leachates analysed at least once in a year from a laboratory recognised by the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
- 20 The Industry shall submit 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 by 30th September of every year, to the WBPCB.
- 21 The Industry shall allow the officers of the State Board to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring by the State Board as well as by authorized agencies of the State Board, as and when required by them.
- 22 The industry shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.
- 23 The Industry shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emission.
- 24 The Industry shall maintain adequate number of qualified and trained personnel among its staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
- 25 The Industry shall have to make registration for the use of groundwater if any, with State Water Investigation Directorate (SWID).
- 26 The Industry 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 quantity 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.
- 27 If the Industry is using Diesel Generator set or generating any other hazardous waste, it should install a Digital Display Board to discriminate all information as stipulated in this regard.
- 28 The industry shall make an application to the State Board in the prescribed form for renewal of the consent at least 120 (one hundred & twenty) days before the date of expiry of this Consent.
- 29 The industry shall not make any alteration / expansion / modification in the existing manufacturing process and equipment, pollution control system and shall not alter or bring in any new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.
- 30 The industry shall comply with all applicable Environmental Acts and Rules.
- 31 The Industry shall comply with the provisions of relevant Waste Management Rules and also submit Annual Returns / Manifests on regular basis.
- 32 Concealing factual data or submission of false or fabricated data/information may result in revocation of Consent to Operate and attract action under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

Special Conditions:

- 1) Unit shall strictly abide by the conditions of the EC identification no. EC23B020WB141674 dtd. 10/3/2023.

- 2) No kind of industrial liquid effluent is permitted to be discharged outside; instead, such effluent to be reused for different plant purposes after proper treatment.
- 3) Unit shall always operate with valid Hazardous Waste Authorization of the State Board.
- 4) Unit shall always operate with efficient functioning of its different air pollution control systems and shall meet the environmental standards on a regular basis. Every measure to be adopted for preventing fugitive emission from its activities.
- 5) Unit shall strictly abide by the DGFT, Ministry of Commerce & Industry, GoI notification no. 42/2015-2020 dtd. 23/10/2018, to be read with MoEF&CC, GoI O.M. no. Q-8011/54/2018-CPA dtd. 10/9/2018, regarding use of Pet Coke. Import of Pet Coke shall not exceed 60,000 Metric Tonne/annum. For the manufacture of Graphite Electrode, Pet Coke to be used only as feed stock to the tune of 70,445 Metric Tonne/annum i.e. 5870.4167 Metric Tonne/month.
- 6) By-products like Graphite fines/scraps, Met-coke residue fines, CPC residue fines, Pitch-coke, etc. to be sold out.
- 7) This consent may be revoked in case of any valid public complaint against the unit for creating environmental hazard and/or for violating environmental norms & conditions.
- Any violation of the aforesaid conditions shall entail cancellation of this Consent for Operate.**



— For and on behalf of West Bengal Pollution Control Board

05/01/2024

**Environmental Engineer
Durgapur Regional Office**

Annexure-2



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

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

Details of Authorisation:

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:

[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 LIMITED

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

To,
The Chief Engineer, OSD,
Waste Management Cell
West Bengal Pollution Control Board,
Paribesh Bhavan,
10A, L.A. Block, Sector - III
Salt Lake City,
Calcutta - 700 091.

20.12.2023



Ref: Environmental Clearance Identification No. EC23B020WB141674 dt: 10.03.2023

Sub: Application for revision of the Quantity in Form 2 "Grant of Authorization under the provisions of the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016 & Amendments."

Dear Sir,

This is in reference to the compliance of EC requirement Point I (vi) i.e " Project Proponent shall obtain authorization under Hazardous & Other Waste Management Rules, 2016 as mended from time to time".

We hereby apply for the revision in Quantity of HW generated for the total Consented Capacity of 67KTPA.

The quantity of HW proposed to be generated w.r.t to 67KTPA Finished capacity of Graphite Electrode is as given below: (Extract of EIA Report Page no. 182 &183).

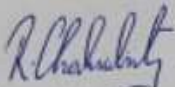
Category	HW Items as mentioned in Authorization	HW Authorization Quantity for 52000MT Capacity	Proposed HW Generation for 67000MT Capacity (For Revision in Form 2)
5.1	Used Oil (KL/annum)	13.97	18.0
5.2	Oily cotton waste (MT/annum)	16.17	20.833
35.1	ESP COAL TAR RESIDUE (MT/annum)	214.90	480.9
B1/15.2	Discarded asbestos (MT/annum)	5.34	6.886
33.1	Empty Discarded Drum/container (MT/annum)	1.55	2.0
3.3	Waste oil/oil sludge (KL/annum)	14.39	18.5
35.3	ETP Sludge (MT/annum)	3.88	5.0

Above proposed generation quantity of HW has been given in EIA Application for EC & Environmental Clearance has been granted. CTO for the Expansion Capacity 15KTPA has also been obtained.

We therefore request to incorporate the figures of HW for 67KTPA in Form 2 & oblige.

Thanking you,

Yours Faithfully,
For Graphite India Limited.


Ranadeep Chakraborty
(Executive Vice President Works)

Encl: A/v

Registered Office : 31 Chowringhee Road, Kolkata - 700016

CIN - L10101WB1974PLC094602

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

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

During the Construction phase, solid waste of about 1 TPD will be generated. Construction waste will be reused to the maximum possible and excess will be disposed through authorized vendors as per Construction and Demolition rules 2016.

o Construction phase

Table 2-13 Municipal Solid Waste Generation and Management

Waste	Quantity(kg/day)	Collection method	Treatment / disposal method
	Proposed		
Organic	0.05	Bins	Disposed to Durgapur Municipal Corporation
In Organic	0.02	Bins	Disposed to Durgapur Municipal Corporation

o Operation Phase

Table 2-14 Municipal Solid Waste Generation and Management

Waste	Quantity(kg/day)			Collection method	Treatment / disposal method
	Existing	Proposed	Total		
Organic	76.05	0.02	76.07	Bins	Disposed to Durgapur Municipal Corporation
In Organic	19.01	0.01	19.02		
Total	95.06	0.03	95.09		

Note: Values given based on the actual SW generation in the existing plant premises.

2. Hazardous Waste

Hazardous waste materials are properly disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016. Hazardous waste collection, storage & disposal to authorized recyclers.

Table 2-15 Hazardous waste generation and Management

Description	UoM	Waste Category	Quantity			Disposal methods
			Existing	Proposed	Total	
Used oil	kL/annum	5.1	10.145	7.855	18	Disposed through authorized vendor as per WBPCB/ CPCB guidelines
Waste oil	kL/annum	3.3	9.575	8.925	18.5	
ESP coal tar residue	MTPA	35.1	270.965	209.935	480.9	
Empty/discarded drums/containers/	MTPA	33.1	0.211	1.789	2	

For GRAPHITE INDIA LTD
Authorized Signat
S.G.K.
Senior Vice President

barrel						
Discarded asbestos	MTPA	15.2	3.88	3.006	6.886	
Oily cotton waste	MTPA	5.2	11.739	9.094	20.833	
Metwrap	MTPA	--	2.68	2.076	4.756	
Thermocole	MTPA	--	0.1	0.077	0.177	
ETP sludge	MTPA	36.5	0.74	4.26	5	

(Hazardous waste Authorization enclosed as Annexure 4)

*FORM-4 figures of FY 20-21 submitted to WBPCB mentioned in existing column.

2.1.8 Assessment of New & untested technology for the risk of technological failure

The proposed facilities are tested technologies and are available in the existing plant setup.

For GRAPHITE INDIA LTD
 Authorized Signator
 S.G. Khune
 Senior Vice President

[Handwritten signature]

Annexure-3

Photos of AAQMS, Ambient Noise Monitoring Station, CEMS & Camera Installed for Online monitoring of “Zero liquid discharge” of Plant

AMBIENT AIR QUALITY MONITORING STATION



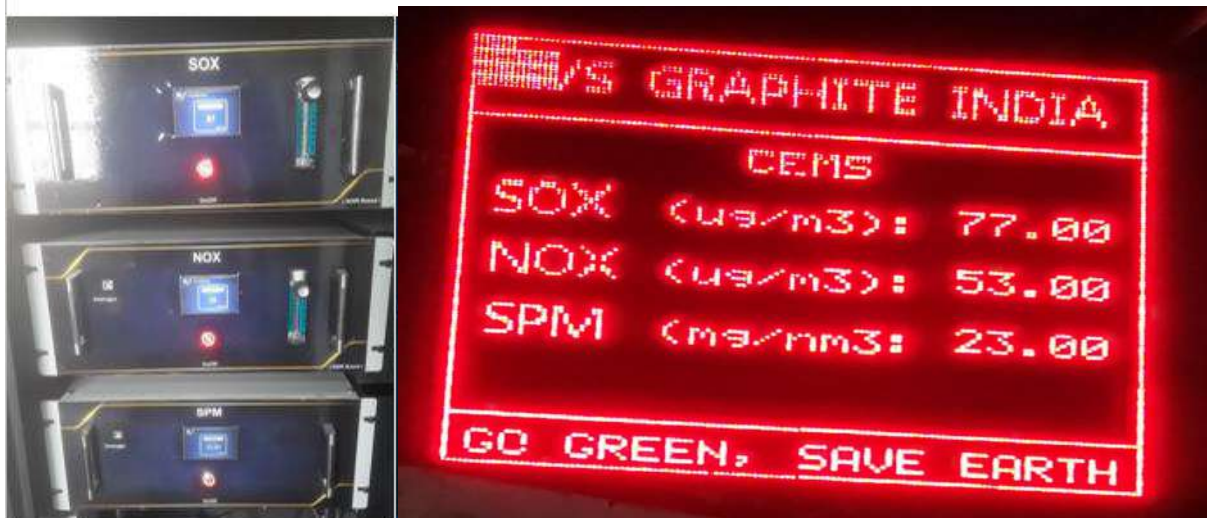
For EC compliance Ambient Air Quality Monitoring Station (AAQMS) with Outside LED Display unit Installed -Commissioning is in process

AMBIENT NOISE LEVEL MONITORING SYSTEM



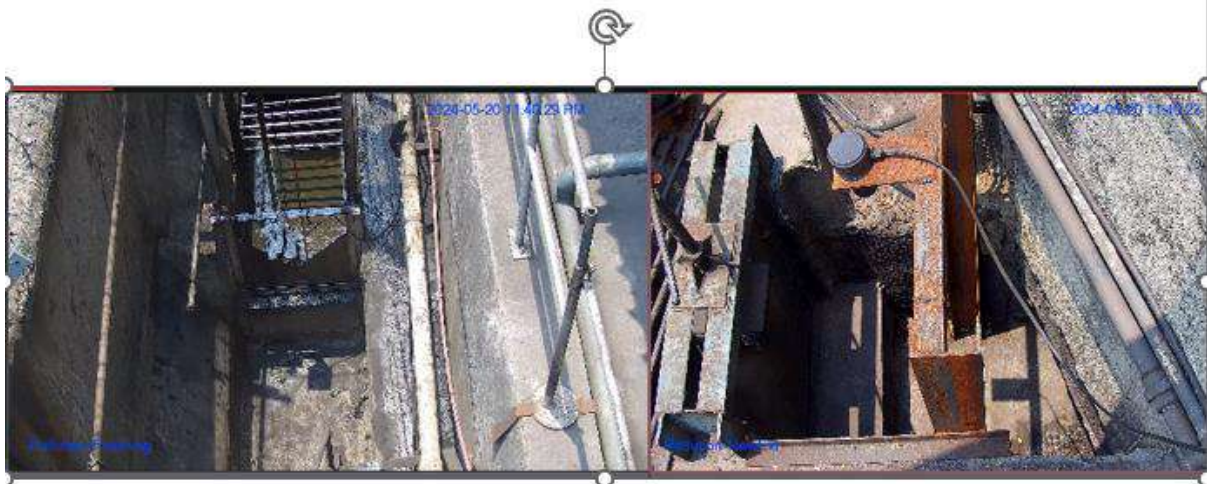
For EC compliance Ambient Noise level Monitoring Station Installed – Commissioning is in process

CONTINUOUS EMISSION MONITORING STATION (CEMS) INSTALLED AT BAKING RH-24(III) ESP STACK



For EC compliance - Continuous Emission monitoring Station (CEMS) Installed at Baking RH-24(III) ESP Stack – Commissioning is in process

CAMERA INSTALLED FOR ONLINE MONITORING OF PLANT “ZERO LIQUID DISCHARGE”



For EC compliance – Camera installed at the plant outlets for monitoring of “zero liquid discharge” – Commissioning is in process.

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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/I	Report No.	: ENV/32/Feb./TR(A)/1/23-24

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	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	: 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)	: 38.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.69	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 16340.82	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	: 18.15	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 :


DURBADAL CHAKRABORTY
Dy. Quality Manager

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Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

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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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/II	Report No.	: ENV/32/Feb./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	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.710
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)	: 41.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.15	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 15001.85	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	: 23.89	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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/III	Report No.	: ENV/32/Feb./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)	: 64.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 14.91	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 11210.96	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	: 14.79	150.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
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Reviewed By :


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TC-6014

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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/IV	Report No.	: ENV/32/Feb./TR(A)/IV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fume Extractor (West Side) Weight Floor (Extrusion # 1 Dept.) (Stack - 5)		
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.)	: 0.3352
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 9.144
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)	: 39.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.12	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3555.61	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	: 13.62	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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TC-6014

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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/V	Report No.	: ENV/32/Feb./TR(A)/V/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.)	: 7.0
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)	: 36.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.76	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3032.13	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	: 15.28	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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/VI	Report No.	: ENV/32/Feb./TR(A)/VI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Scrap System Dust Collector (Extrusion No.1 Dept.) (Stack No.7)		
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.)	: 5.6
Emission Due to	: Process Activity		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 18.59	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 17863.05	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	: 12.46	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	: 05.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/VII	Report No.	: ENV/32/Feb./TR(A)/VII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Main Dust Collector (Extrusion No.1 Dept.) (Stack No.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	: Process Activity		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.06	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 21495.01	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	: 53.50	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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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	: 07.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XX	Report No.	: ENV/32/Feb./TR(A)/XX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer Furnace (Baking Furnace) (Stack No.12) (14 Section)		
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 Electrodes		
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)	: 65.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.83	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 21899.52	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 20.78	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	: 12.43	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	: 12.80	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXV	Report No.	: ENV/32/Feb./TR(A)/XXXXV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Reid Hammer Furnace (Baking Furnace) (RH - 16 & RH - 24 - 1 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)	: 70.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.56	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 91733.34	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 15.55	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	: 11.92	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	: 15.78	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.

Reviewed By :

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ENVIROCHECK

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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	: 07.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XV	Report No.	: ENV/32/Feb./TR(A)/XV/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)	: 65.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.57	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3392.91	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 17.38	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	: 9.94	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	: 16.64	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 :

DURBADAL CHAKRABORTY
Dr. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL
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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	: 07.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XVI	Report No.	: ENV/32/Feb./TR(A)/XVI/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)	: 67.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.17	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4792.69	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 16.16	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	: 12.42	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	: 21.45	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXX	Report No.	: ENV/32/Feb./TR(A)/XXXX/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)	: 31.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 15.54	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 34610.71	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	: 49.06	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	: 12.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/X	Report No.	: ENV/32/Feb./TR(A)/X/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.)	: 15.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.56
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 6.70
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)	: 34.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.96	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 11929.91	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	: 42.08	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XIV	Report No.	: ENV/32/Feb./TR(A)/XIV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Boiler (No.1 & 2) (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.)	: 0.28
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	: 65 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)	: 135.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.30	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1174.03	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 23.24	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	: 10.93	N.A.
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 3.0	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	: 12.67	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.

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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	: 12.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXVII	Report No.	: ENV/32/Feb./TR(A)/XXXXVII/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)	: 191.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.77	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 7469.28	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 22.27	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	: 15.90	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 :

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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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXIX	Report No.	: ENV/32/Feb./TR(A)/XXXIX/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)	: 35.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.24	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 13610.36	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	: 87.48	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XVIII	Report No.	: ENV/32/Feb./TR(A)/XVIII/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 and Cooling Chamber		

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.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.55	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4401.45	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 17.38	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	: 12.92	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	: 30.55	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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ENVIROCHECK

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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	: 07.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XVII	Report No.	: ENV/32/Feb./TR(A)/XVII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P. I. Unit – 3 (Thermo Pack 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)	: 73.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	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)	: 3968.10	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 14.88	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	: 8.45	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	: 11.30	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 :

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Dr. Quality Manager

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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXVIII	Report No.	: ENV/32/Feb./TR(A)/XXVIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Thermic Fluid Heater (Extrusion # 2 Dept.) (Stack - 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 Lac K-Cal/Day	Height of sampling port (mtr.) (from G.L.)	: 20.0
Emission Due to	: Combustion of CBM to Heat Treatment Fluid		
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)	: 49.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.39	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 7152.81	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 21.69	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	: 8.94	N.A.
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 4.2	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	: 16.19	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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXIX	Report No.	: ENV/32/Feb./TR(A)/XXIX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: IRICH Dust Collector (Extrusion # 2 Dept.) (Stack – 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	: 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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.33	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1811.57	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	: 24.38	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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXX	Report No.	: ENV/32/Feb./TR(A)/XXX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Main Dust Collector (Extrusion # 2 Dept.) (Stack – 30)		
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.)	: 1.0
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 33.0
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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.22	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 36292.39	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	: 56.50	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.

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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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXI	Report No.	: ENV/32/Feb./TR(A)/XXXI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Raymond Mill Dust Collector (Extrusion # 2 Dept.) (Stack – 31)		
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.)	: 0.23
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	: 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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.92	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1962.33	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	: 128.60	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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXII	Report No.	: ENV/32/Feb./TR(A)/XXXII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Silo Dust Collector (Extrusion # 2 Dept.) (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	: 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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 19.05	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 18823.28	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	: 16.02	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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXIII	Report No.	: ENV/32/Feb./TR(A)/XXXIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: IRICH (Trema) Scrubber System (Extrusion # 2) (Stack - 33)		
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.)	: 0.28
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	: N.A.		
Pollution Control Device	: Scrubber System		

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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 60.72	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 12704.95	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	: 18.24	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	: 12.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/IX	Report No.	: ENV/32/Feb./TR(A)/IX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Acheson Dust Collector (Stack – 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.)	: 0.80 x 0.32
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: --
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)	: 30.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 29.05	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 26101.34	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	: 21.17	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.

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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXIV	Report No.	: ENV/32/Feb./TR(A)/XXXIV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Scrap System Dust Collector (Extrusion # 2 Dept.) (Stack - 35)		
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.)	: 0.65
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)	: 33.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.18	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 14085.49	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	: 84.40	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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ENVIROCHECK

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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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XI	Report No.	: ENV/32/Feb./TR(A)/XI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH - 24 (II) Furnace (Stack - 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.)	: 1.60
Capacity	: 80 MT/Charge	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)	: 77.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.20	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 44090.82	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 31.43	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	: 15.90	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	: 14.98	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXVIII	Report No.	: ENV/32/Feb./TR(A)/XXXXVIII/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	: 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)	: 34.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.74	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 18338.74	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	: 11.86	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXIII	Report No.	: ENV/32/Feb./TR(A)/XXXXIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Finishing Unit - 2 (South Side) Nipple Dust Collector (Stack - 38)		
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.)	: 0.61
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 9.14
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)	: 30.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 18.99	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 19513.01	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	: 48.50	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.

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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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXIV	Report No.	: ENV/32/Feb./TR(A)/XXIV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH - 16 Stock Cleaning Machine Dust Collector (Stack - 39)		
Shape of Stack	: Rectangular	Height of Stack (mtr.) (from G. L.)	: 15.0
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	: 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.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.32	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 6160.09	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	: 69.34	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XII	Report No.	: ENV/32/Feb./TR(A)/XII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH – 24 (II) Stock Cleaning Machine Dust Collector (Stack – 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.)	: 15.0
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)	: 34.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	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)	: 7341.78	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	: 14.80	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XII	Report No.	: ENV/32/Feb./TR(A)/XII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Turning - 1 Dust Collector (Stack - 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	: 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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.41	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1240.93	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	: 13.07	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XIX	Report No.	: ENV/32/Feb./TR(A)/XIX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P.I. - 2 Turning Machine Dust Collector (Stack - 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	: 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.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.04	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1528.35	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	: 12.68	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	: 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXI	Report No.	: ENV/32/Feb./TR(A)/XXI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P.I. – 3 Turning Machine Dust Collector (Stack – 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	: 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.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.04	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1528.36	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	: 14.17	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.

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	: 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXVI	Report No.	: ENV/32/Feb./TR(A)/XXVI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P.I. – 4 (Thermopack Stack) (Stack – 44)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.5
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.95
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 18.8
Emission Due to	: Combustion of CBM Gas		
Fuel Used	: CBM Gas	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)	: 104.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.10	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 16211.20	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 18.81	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	: 11.43	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	: 12.14	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	: 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXVII	Report No.	: ENV/32/Feb./TR(A)/XXVII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: P.I. – 4 (Pre-Heater) (Stack – 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 CBM		
Fuel Used	: CBM	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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 6.31	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 22881.93	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 22.88	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	: 12.43	N.A.
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 3.0	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	: 14.82	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XIII	Report No.	: ENV/32/Feb./TR(A)/XIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH - 24 II Jaw Crusher Machine Dust Collector (Stack - 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.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.98	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 5681.59	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	: 12.58	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.

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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	: 08.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXV	Report No.	: ENV/32/Feb./TR(A)/XXV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Raid Hammer - 16 Jaw Crusher Machine Dust Collector (Stack - 47)		
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.)	: 0.80
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)	: 33.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.0	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 15752.50	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	: 14.18	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	: 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXIV	Report No.	: ENV/32/Feb./TR(A)/XXXXIV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RS - 24 (I) Stock Cleaning Dust Collector (Stack - 48)		
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.)	: 0.30
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)	: 35.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 13.28	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3220.43	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	: 13.11	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.

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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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/VIII	Report No.	: ENV/32/Feb./TR(A)/VIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Core Sampling Dust Collector (Stack – 49)		
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.)	: 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)	: 30.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.67	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1668.32	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	: 53.31	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	: 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXIII	Report No.	: ENV/32/Feb./TR(A)/XXIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: CBS Dust Collector (Stack – 50)		
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.)	: 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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.69	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 9578.35	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	: 18.05	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXXI	Report No.	: ENV/32/Feb./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)	: 33.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.01	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 27238.54	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	: 18.48	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	: 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXII	Report No.	: ENV/32/Feb./TR(A)/XXXII/23-24

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)	: 35.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 756.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.64	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 22910.93	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	: 23.78	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 :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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ENVIROCHECK

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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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXV	Report No.	: ENV/32/Feb./TR(A)/XXXV/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.)	: 1.60
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 30.0
Emission Due to	: Combustion of CBM Gas & Baking of electrode & Nipple		
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)	: 78.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.21	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 43968.0	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 31.05	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	: 16.40	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	: 18.0	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 :

DURBADAL CHAKRABORTY
Dr. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL
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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXVI	Report No.	: ENV/32/Feb./TR(A)/XXXVI/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)	: 36.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.44	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 10181.68	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	: 12.47	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 :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL
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	: 09.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 17.02.2024		
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/32/Feb./A/XXXVII	Report No.	: ENV/32/Feb./TR(A)/XXXVII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: RH - 24 - III Stock Cleaning Machine 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)	: 32.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 755.0	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)	: 5625.65	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	: 26.28	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 :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

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Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK



STATEMENT OF STACK EMISSION DETAILS FOR THE YEAR FEBRUARY-2024

M/s. Graphite India Ltd.

Date of Sampling : 05.02.2024 - 12.02.2024

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. °C	Flow Rate of gas Nm ³ /hr	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ 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	38	16340.82	18.15	-	-	-	11.69	N.A.	Nil
2	Mixture Fume Extractor (South) (Extrusion#1 Dept)	2	Electricity	710	30000	16000	41	15001.85	23.89	-	-	-	11.15	N.A.	Nil
3	Cooler (North) (Extrusion#1 Dept)	3	Electricity	550	30000	15000	64	11210.96	14.79	-	-	-	14.91	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	335.2	30000	9144	39	3555.61	13.62	-	-	-	11.12	N.A.	Bag Filter
6	Raymond Mill Dust Collector (Extrusion#1 Dept)	6	Electricity	300x300	16000	7000	36	3032.13	15.28	-	-	-	9.76	N.A.	Bag Filter
7	Scrap System Dust Collector (Extrusion#1 Dept)	7	Electricity	600	15000	5600	41	17863.05	12.46	-	-	-	18.59	N.A.	Bag Filter
8	Main Dust Collector (Extrusion#1 Dept)	8	Electricity	700	22000	15000	35	21495.01	53.50	-	-	-	16.06	N.A.	Bag Filter
9	Ried Hammer Furnace (Baking Furnace) (14 SECTION)	12	CBM 90 m ³ /hr.	800	30000	10500	65	21899.52	12.80	20.78	12.43	3.4	13.83	N.A.	E.S.P
10	Ried Hammer Furnace (Baking Furnace)(RH16 & RH24-I SECTION) [RH-24(I) running]	13	CBM 170 m ³ /hr.	1800	45000	33000	70	91733.34	15.78	15.55	11.92	3.4	11.56	N.A.	E.S.P

Continuee to Next Page.....



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. °C	Flow Rate of gas Nm ³ /hr	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	CO ₂ (%)	Velocity (m/s)	Other Pollutants if any	Description of Air Pollution control devices if any
11	P.I. UNIT- 2 (THERMOPACK STACK)	16	CBM 70 m ³ /hr.	400	30000	28000	65	3392.91	16.64	17.38	9.94	3.6	8.57	N.A.	Nil
12	P.I. UNIT- 2 (HGG STACK)	17	CBM 70 m ³ /hr.	400	30000	28000	67	4792.69	21.45	16.16	12.42	3.2	12.17	N.A.	Water spray and Cooling Chamber
13	Finishing Dust Collector (Unit 2)	20	Electricity	900	15000	11000	31	34610.71	49.06	-	-	-	15.54	N.A.	Bag Filter
14	FINE SCREENING DUST COLLECTOR	21	Electricity	560	15000	6700	34	11929.91	42.08	-	-	-	13.96	N.A.	Bag Filter
15	Boiler (1.5 Ton/ 2Ton) 1.5 Ton Running	22	CBM (65 m ³ /Hr.)	280	29290	13500	135	1174.03	12.67	23.5	11.2	3.0	7.30	N.A.	Nil
16	Tunnel Kiln - 1 (Re-baking Furnace) (4.6 TPH)	23	CBM (85 m ³ /Hr.)	730	30000	18000	191	7469.28	12.81	22.27	15.9	3.8	7.77	N.A.	Incinerator
17	Finishing Dust Collector (Unit 3)	24	Electricity	780	15000	9000	35	13610.36	87.48	-	-	-	8.24	N.A.	Bag Filter
18	P.I. Unit - 3 (HGG STACK)	25	CBM (60 m ³ /Hr.)	400	30000	28000	48	4401.45	30.55	17.38	12.92	3.8	10.55	N.A.	Water Spray and Cooling Chamber
19	Tunnel Kiln - 2 (Re-baking Furnace) (4.6 TPH)	26	CBM (140 kg/hr.)	730	30000	18000	147	11110.94	11.6	18.58	14.41	3.2	10.47	N.A.	Incinerator
20	P.I. Unit - 3 (THERMOPACK STACK)	27	CBM (70 m ³ /Hr.)	400	30000	28000	73	3968.10	11.30	14.88	8.45	3.6	10.25	N.A.	Nil
21	Thermic Flueid Heater (Extrusion -2 Department)	28	CBM (50 m ³ /Hr.)	580	30000	20000	49	7152.81	16.19	21.69	8.94	4.2	8.39	N.A.	Nil
22	Extrusion #2 IRICH Dust Collector	29	Electricity	300	34000	28000	32	1811.57	24.38	-	-	-	7.23	N.A.	Bag Filter
23	Extrusion #2 Main Dust Collector	30	Electricity	1000	34000	33000	32	36292.39	56.50	-	-	-	13.22	N.A.	Bag Filter

Continuee to Next Page.....



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. °C	Flow Rate of gas Nm ³ /hr	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	CO ₂ (%)	Velocity (m/s)	Other Pollutants if any	Description of Air Pollution control devices if any
24	Extrusion #2 Raymond Mill Dust Collector	31	Electricity	230	15000	10500	41	1962.33	128.60	-	-	-	13.92	N.A.	Bag Filter
25	Extrusion #2 Silo Dust Collector	32	Electricity	600	15000	7000	32	18823.28	16.02	-	-	-	19.05	N.A.	Bag Filter
26	Extrusion #2 IRICH (Trema) Scrubber System	33	Electricity	280	15000	7000	37	12704.95	18.24	-	-	-	60.72	N.A.	Scrubber System
27	Acheson Dust Collector	34	Electricity	800x320	18000	-	30	26101.34	21.17	-	-	-	29.05	N.A.	Bag Filter
28	Extrusion #2 Scrap system Dust collector	35	Electricity	650	15000	8900	33	14085.49	84.40	-	-	-	84.40	N.A.	Bag Filter
29	R.H.-24 (II) Furnace	36	CBM (120 m ³ /Hr.)	1600	45000	33000	77	44090.82	14.98	31.43	15.9	3.4	7.2	N.A.	E.S.P
30	Finishing Unit - 3 (South Side) Nipple Dust Collector	37	Electricity	700	15000	8000	34	18338.74	11.86	-	-	-	13.74	N.A.	Bag Filter
31	Finishing Unit - 2 Nipple line Dust Collector	38	Electricity	610	15000	9140	30	19513.01	48.50	-	-	-	18.99	N.A.	Bag Filter
32	R.H.-16 Stock Cleaning Machine Dust Collector	39	Electricity	400 × 600	15000	7000	31	6160.09	69.34	-	-	-	7.32	N.A.	Bag Filter
33	R.H.-24 (II) Stock Cleaning Machine Dust Collector	40	Electricity	650	30000	15000	34	7341.78	14.80	-	-	-	6.37	N.A.	Bag Filter
34	Turning-1 Dust Collector	41	Electricity	250	15000	3000	39	1240.93	13.07	-	-	-	7.41	N.A.	Bag Filter
35	P.I.-2 Turning Machine Dust Collector	42	Electricity	250	15000	3000	36	1528.35	12.68	-	-	-	9.04	N.A.	Bag Filter
36	P.I.-3 Turning Machine Dust Collector	43	Electricity	250	15000	3000	36	1528.36	14.17	-	-	-	9.04	N.A.	Bag Filter

Continue to Next Page.....



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37	P.I Unit- 4 (THERMOPACK STACK)	44	CBM (100 m ³ /Hr.)	950	30500	18800	104	16211.2	12.14	18.81	11.43	3.4	8.1	N.A.	Nil
38	P. I. - 4 Pre-Heater	45	CBM (60 m ³ /Hr.)	1150	35800	21200	32	22881.93	14.82	22.88	12.43	3.0	6.31	N.A.	Nil
39	RH-24 (II) Jaw Crusher Machine Dust Collector	46	Electricity	480	22000	10000	32	5681.59	12.58	-	-	-	8.98	N.A.	Bag Filter
40	Ried Hammer-16 Jaw Crusher Dust Collector	47	Electricity	800	15000	6400	33	15752.50	14.18	-	-	-	9.00	N.A.	Bag Filter
41	R.H.-24 (I) Stock Cleaning Dust Collector	48	Electricity	300	15000	4570	35	3220.43	13.11	-	-	-	13.28	N.A.	Bag Filter
42	Core Sampling Dust Collector	49	Electricity	250	15000	4500	30	1668.32	53.31	-	-	-	9.67	N.A.	Bag Filter
43	CBS Dust Collector	50	Electricity	600	15000	5000	32	9578.35	18.05	-	-	-	9.69	N.A.	Bag Filter
44	Finishing -4, Electrode Line Dust Collector Stack	51	Electricity	950	17500	14000	33	27238.54	18.48	-	-	-	11.01	N.A.	Bag Filter
45	Finishing -4, Nipple Line Dust Collector Stack	52	Electricity	850	17500	14000	35	22910.93	23.78	-	-	-	11.64	N.A.	Bag Filter
46	RH-24 III, E.S.P Stack	53	CBM (120 m ³ /Hr.)	1600	45000	30000	78	43968.00	18.00	31.05	16.4	3.4	7.21	N.A.	E.S.P
47	RH-24 III, Jaw Crusher Dust Collector	54	Electricity	600	22000	14000	36	10181.68	12.47	-	-	-	10.44	N.A.	Bag Filter
48	RH-24 III, Stock Cleaning Machine Dust Collector	55	Electricity	500	22000	14000	32	5625.65	26.28	-	-	-	8.2	N.A.	Bag Filter

Checked By: D. Chakraborty
 Dy. Quality Manager
 Envirocheck



Stamp

Dr. Ajoy Paul
 Quality Manager
 Envirocheck

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.



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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	: 05.02.2024 - 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXVIII	Report No.	: ENV/32/Feb./TR(A)/XXXXVIII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near Personal Office (Graphite Old Plant) (West Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 22.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 756.0
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	46.61	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	79.20	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	12.75	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	36.47	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 :

DURBADAL CHAKRABORTY
Dy. 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	: 05.02.2024 - 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXIX	Report No.	: ENV/32/Feb./TR(A)/XXXXIX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near Security Barrack (Old Plant) (North Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 22.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 756.0
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	51.73	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	82.50	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	14.16	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	32.56	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 :

DURBADAL CHAKRABORTY
Dy. 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	: 05.02.2024 - 06.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXX	Report No.	: ENV/32/Feb./TR(A)/XXXXX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : At the East of LWG - 4 & 5 (East Side Near Boundary Wall - Old Plant)
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 22.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 756.0
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	42.06	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	70.12	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	11.09	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	30.17	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.

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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	: 05.02.2024 – 06.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXI	Report No.	: ENV/32/Feb./TR(A)/XXXXXI/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) : 22.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 756.0
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	51.27	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	86.48	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	14.16	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	38.50	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.48	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	0.48	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	1.20	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	25.0	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.

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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	: 06.02.2024 - 07.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXII	Report No.	: ENV/32/Feb./TR(A)/XXXXXII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near South Side of Tunnel Kiln (South Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (09:40 a.m. - 09:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	51.68	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	82.60	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	11.80	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	34.23	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.50	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	: 06.02.2024 - 07.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXIII	Report No.	: ENV/32/Feb./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. (10:10 a.m. - 10:10 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 22.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 756.0
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	54.12	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	89.22	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	18.41	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	32.56	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	: 06.02.2024 - 07.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXIV	Report No.	: ENV/32/Feb./TR(A)/XXXXXIV/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near RH # 24 (II) Section (South Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (10:40 a.m. - 10:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	49.22	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	80.15	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	12.51	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	30.03	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.46	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	: 06.02.2024 – 07.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXV	Report No.	: ENV/32/Feb./TR(A)/XXXXXV/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (South 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) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	46.66	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	84.13	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	12.51	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	32.50	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	: 07.02.2024 - 08.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXVI	Report No.	: ENV/32/Feb./TR(A)/XXXXXVI/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (Centre Location) (Near Weigh Bridge)
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 24.0
2. Average Relative Humidity (%) : 71.0
3. Barometric Pressure (mm of Hg) : 755.0
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	51.66	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	83.50	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	14.16	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	36.47	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.56	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	0.52	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	1.26	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	26.50	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 :

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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	: 07.02.2024 – 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXVII	Report No.	: ENV/32/Feb./TR(A)/XXXXXVII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (East Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	46.28	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	82.40	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	9.20	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	29.96	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.46	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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Dy. 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	: 07.02.2024 – 08.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXVIII	Report No.	: ENV/32/Feb./TR(A)/XXXXXVIII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (North Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (10:50 a.m. – 10:50 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	42.48	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	78.45	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	9.44	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	26.48	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.38	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	: 07.02.2024 - 08.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXIX	Report No.	: ENV/32/Feb./TR(A)/XXXXXIX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Extrusion # 2 Campus (West Side of Boundary Wall)
2. Duration of Sampling : 24 hrs. (11:10 a.m. - 11:10 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 756.0
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	47.08	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	79.12	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	7.80	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	24.96	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.36	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	: 09.02.2024 - 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXX	Report No.	: ENV/32/Feb./TR(A)/XXXXXX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Outside Boundary Wall of New Plant (North Side) (As per EC Condition 120° Apart)
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 24.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 756.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	52.54	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	89.15	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	16.52	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	31.19	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.48	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	0.46	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	30.0	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 :

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Overseas : UAE ■ Qatar ■ Netherlands

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	: 09.02.2024 - 10.02.2024		
		Period of Analysis	: 15.02.2024 - 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXXI	Report No.	: ENV/32/Feb./TR(A)/XXXXXXI/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Outside Boundary Wall of Old Plant [Near RH # 24 (III) (North - East Side) (As per EC Condition 120° Apart)
2. Duration of Sampling : 24 hrs. (09:15 a.m. - 09:15 a.m.)

B] METEOROLOGICAL INFORMATION

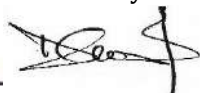
1. Average Temperature (°C) : 24.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 756.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	46.21	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	76.22	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	11.80	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	28.51	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.36	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	0.46	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	18.50	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 :



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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	: 09.02.2024 – 10.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXXII	Report No.	: ENV/32/Feb./TR(A)/XXXXXXII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Outside Boundary Wall of Old Plant [Near Waste Water Recycling Plant] (South Side) (As per EC Condition 120^o Apart)
2. Duration of Sampling : 24 hrs. (09:15 a.m. – 09:15 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 756.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	51.27	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	82.50	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	12.75	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	34.15	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	0.42	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	1.10	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	26.50	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 :

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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	: 09.02.2024 – 10.02.2024		
		Period of Analysis	: 15.02.2024 – 16.02.2024		
		Date of Issue	: 18.02.2024		
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/32/Feb./A/XXXXXXXXIII	Report No.	: ENV/32/Feb./TR(A)/XXXXXXXXIII/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Centre Location (On the Roof of Water Reservoir) (As per EC Condition 120° Apart)
2. Duration of Sampling : 24 hrs. (09:45 a.m. – 09:45 a.m.)

B] METEOROLOGICAL INFORMATION


1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 756.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	41.66	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	74.11	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	8.02	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	26.48	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.26	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	0.45	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 :



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<End of Report>



Pollution Ambient Air Average concentration around the plant surroundings

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

Sampling Period:

All figures are in micro gms / N cub. Mt

			Parameters in $\mu\text{g} / \text{m}^3$				Parameters in mg / m^3	Parameters in $\mu\text{g} / \text{m}^3$				Parameters in ng / m^3			Location	Direction wrt Plant Land	Close to
Max limit			60	100	80	80	2	1	5	400	100	1	6	20			
LOCATION	Sampling Date	Sampling Time	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	CO	Pb	Benzene	NH ₃	Ozone	Benzo(a) Pyrene	As	Ni			
Graphite Old Plant Campus																	
A	09.02.24 to 10.02.24	09:00 A.M. TO 09:00 A.M.	52.54	89.15	16.52	31.19	0.4800	<0.01	<0.74	<4.18	30.00	0.46	<0.01	<0.02	Graphite Old Plant (As per EC Condition 120 ^o Apart)	North Side	Outside Boundary Wall of Plant
B	09.02.24 to 10.02.24	09:15 A.M. TO 09:15 A.M.	46.21	76.22	11.80	28.51	0.3600	<0.01	<0.74	<4.18	18.5	0.46	<0.01	<0.02	Graphite Old Plant (As per EC Condition 120 ^o Apart)	North - East Side	Outside of the Boundary Wall of the Plant
C	05.02.24 to 06.02.24	10:00 A.M. TO 10:00 A.M.	42.06	70.12	11.09	30.17	0.4000	-	-	-	-	-	-	-	At the East of LWG-4 & 5 (Graphite Old Plant)	East Side	Near Boundary Wall
D	05.02.24 to 06.02.24	09:00 A.M. TO 09:00 A.M.	46.62	79.20	12.75	36.47	0.4800	-	-	-	-	-	-	-	Near Personal Office (Graphite Old Plant)	West Side	Near Boundary Wall

Continuee to next page.....

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Max limit	LOCATION	Sampling Date	Sampling Time	Parameters in $\mu\text{g} / \text{m}^3$				Parameters in mg / m^3	Parameters in $\mu\text{g} / \text{m}^3$				Parameters in ng / m^3			Location	Direction wrt Plant Land	Close to
				60	100	80	80	2	1	5	400	100	1	6	20			
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	CO	Pb	Benzene	NH ₃	Ozone	Benzo(a) Pyrene	As	Ni			
Graphite Old Plant Campus																		
	E	06.02.24 to 07.02.24	09:40 A.M. TO 09:40 A.M.	51.68	82.60	11.80	34.23	0.5000	-	-	-	-	-	-	-	Tunnel Kiln (Graphite Old Plant)	South Side	Boundary Wall
	F	05.02.24 to 06.02.24	09:30 A.M. TO 09:30 A.M.	51.73	82.50	14.16	32.56	0.4800	-	-	-	-	-	-	-	Near Security Barrack, Section (Graphite Old Plant)	North Side	Boundary Wall
	G	05.02.24 to 06.02.24	10:30 A.M. TO 10:30 A.M.	51.27	86.48	14.16	38.50	0.4800	<0.01	1.2	<4.18	25	0.48	<0.01	<0.02	Graphite Old Plant	Center Location	Boundary Wall
	H	06.02.24 to 07.02.24	10:10 A.M. TO 10:10 A.M.	54.12	89.22	18.41	32.56	0.4200	-	-	-	-	-	-	-	Graphite Old Plant (Near Baking Furnace RH # 16 Section)	North Side	Boundary Wall
	I	06.02.24 to 07.02.24	10:40 A.M. TO 10:40 A.M.	49.22	80.15	12.51	30.03	0.4600	-	-	-	-	-	-	-	Near Baking Furnace RH # 24 Section (Graphite Old Plant)	South Side	Boundary Wall
	J	09.02.24 to 10.02.24	09:30 A.M. TO 09:30 A.M.	51.27	82.50	12.75	34.15	0.4200	<0.01	1.1	<4.18	26.5	0.42	<0.01	<0.02	Graphite Old Plant (As per EC Condition 120° Apart) (Near Waste Water Recyclong Plant)	South Side	Outside Boundary wall of Old Plant
	K	09.02.24 to 10.02.24	09:45 A.M. TO 09:45 A.M.	41.66	74.11	8.02	26.48	0.2600	<0.01	<0.74	<4.18	20	0.45	<0.01	<0.02	Graphite Old Plant (As per EC Condition 120° Apart)	Center Location	On the Roof of Water Reservoir)
New Extrusion Campus																		
	A	07.02.24 to 08.02.24	10:30 A.M. TO 10:30 A.M.	46.28	82.40	9.20	29.96	0.4600	-	-	-	-	-	-	-	Extrusion 2 # Campus	East Side	Outside Boundary wall
	B	07.02.24 to 08.02.24	11:10 A.M. TO 11:10 A.M.	47.08	79.12	7.80	24.96	0.3600	-	-	-	-	-	-	-	Extrusion 2 # Campus	West Side	Boundary wall

C	07.02.24 to 08.02.24	10:00 A.M. TO 10:00 A.M.	51.66	83.50	14.16	36.47	0.5600	<0.01	1.26	<4.18	26.5	0.52	<0.01	<0.02	Extrusion 2 # Campus	Center Location	Near New Weigh Bridge
D	06.02.24 to 07.02.24	11:00 A.M. TO 11:00 A.M.	46.66	84.13	12.51	32.50	0.4200	-	-	-	-	-	-	-	Extrusion 2 # Campus	South Side	Boundary Wall
E	07.02.24 to 08.02.24	10:50 A.M. TO 10:50 A.M.	42.48	78.45	9.44	26.48	0.3800	-	-	-	-	-	-	-	Extrusion 2 # Campus	North Side	Boundary Wall



Checked By: D. Chakraborty
Dy. Quality Manager
Envirocheck



Stamp



Dr. Ajoy Paul
Quality Manager
Envirocheck



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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd. (Extrusion - 2)	Type of Industry	: Graphite Unit		
Address	: P.O. - Sagarbhanga, Durgapur, Pin - 713211	Sampling Date	: 06.02.2024		
		Period of Analysis	: 07.02.2024 - 12.02.2024		
		Date of Issue	: 13.02.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Inlet	Sample Condition	: Sealed	Sample ID No.	: ENV/05/Feb./W/I
Report No.	: ENV/05/Feb./TR(W)/I/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	5.26
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	132.5
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	15.3
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	2360.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	435.0
6.	Phenolic Compound	APHA 23 rd Ed., 5530-Phenols D : 2017	mg/l	3.91
7.	Sulfate	APHA 23 rd Ed., 4500-SO ₄ ²⁻ E : 2017	mg/l	260.0

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 :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. SUMIT CHOWDHURY
Technical Manager

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Overseas : UAE ■ Qatar ■ Netherlands



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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Graphite India Ltd. (Extrusion - 2)	Type of Industry	: Graphite Unit
Address	: P.O. - Sagarbhanga, Durgapur, Pin - 713211	Sampling Date	: 06.02.2024
		Period of Analysis	: 07.02.2024 - 12.02.2024
		Date of Issue	: 13.02.2024
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Outlet	Sample Condition	: Sealed
Report No.	: ENV/05/Feb./TR(W)/II/23-24	Sample ID No.	: ENV/05/Feb./W/II

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.93	5.5 - 9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	26.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	4.7	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	70.0	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	20.0	30.0
6.	Phenolic Compound	APHA 23 rd Ed., 5530-Phenols D : 2017	mg/l	0.21	1.0
7.	Sulfate	APHA 23 rd Ed., 4500-SO ₄ ²⁻ E : 2017	mg/l	57.8	N.A.

Remarks : a) Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

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 :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. SUMIT CHOWDHURY
Technical 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, Durgapur, Pin – 713211	Sampling Date	: 06.02.2024		
		Period of Analysis	: 07.02.2024 – 12.02.2024		
		Date of Issue	: 13.02.2024		
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) - Inlet	Sample Condition	: Sealed	Sample ID No.	: ENV/04/Feb./W/I
Report No.	: ENV/04/Feb./TR(W)/I/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	5.16
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	117.5
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	1920.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	412.0

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 :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. SUMIT CHOWDHURY
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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, Durgapur, Pin – 713211	Sampling Date	: 06.02.2024
		Period of Analysis	: 07.02.2024 – 12.02.2024
		Date of Issue	: 13.02.2024
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) - Outlet	Sample Condition	: Sealed
		Sample ID No.	: ENV/04/Feb./W/II
Report No.	: ENV/04/Feb./TR(W)/II/23-24		

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.94	5.5 – 9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	32.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	5.3	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	80.0	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	24.0	30.0

Remarks : a) Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

b) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

c) Result relates only to the sample tested.

Reviewed By :

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Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. SUMIT CHOWDHURY
Technical Manager

<End of Report>

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ENVIROCHECK



STATEMENT OF EFFLUENT DETAILS FOR THE YEAR - FEBRUARY'2024

M/s. Graphite India Ltd., Dist - Burdwan, Durgapur, PIN - 713 211, (West Bengal)

SL. NO.	Location	Sampling Date	Parameters	Result
1	Extrusion #2 ETP Inlet	06.02.2024	pH	5.26
			TSS	132.50
			COD	2360.00
			BOD	435.00
			Oil & Grease	15.30
			Phenolic Compound	3.91
			Sulphate	260.00

SL. NO.	Location	Sampling Date	Parameters	Result
2	Extrusion #2 ETP Outlet	06.02.2024	pH	6.93
			TSS	26.00
			COD	70.00
			BOD	20.00
			Oil & Grease	4.70
			Phenolic Compound	0.21
			Sulphate	57.80

SL. NO.	Location	Sampling Date	Parameters	Result
3	Collected Treated water from Common Waste Water Recycling Unit of Outfall (Near LWG 4 & Old Weigh Bridge) - Inlet	06.02.2024	pH	5.16
			TSS	117.50
			COD	1920.00
			BOD	412.00
			Oil & Grease	14.30

SL. NO.	Location	Sampling Date	Parameters	Result
4	Collected Treated water from Common Waste Water Recycling Unit of Outfall (Near LWG 4 & Old Weigh Bridge) - Outlet	06.02.2024	pH	6.94
			TSS	32.00
			COD	50.00
			BOD	24.00
			Oil & Grease	5.30

Checked By: D. Chakraborty
Dy. Quality Manager
Envirocheck



Stamp

Dr. Ajoy Paul
Quality Manager
Envirocheck

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

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

For the Month of FEBRUARY'2024

Sampling Date : 08.02.2024

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 TEMPLE	61.04	63.90	57.80	55.90	57.80	52.70
2	NORTH BOUNDARY WALL -NEAR SECURITY BARRACK	64.75	66.90	62.30	59.41	61.10	56.30
3	NORTH BOUNDARY WALL -BACK OF LWG # 3	62.40	64.50	59.30	58.81	60.90	56.70
4	CENTRE OF THE PLANT (NEAR PI UNIT # 1)	63.61	65.20	61.20	58.93	61.20	57.40
5	EAST BOUNDARY WALL - NEAR LWG # 4	64.97	66.90	62.70	59.23	61.20	57.60
6	WEST BOUNDARY WALL - NEAR PERSONAL OFFICE	63.72	65.90	61.20	60.84	63.70	57.90
7	SOUTH BOUNDARY WALL -NEAR FINISHIG UNIT # 3	65.37	67.70	61.20	59.42	60.30	58.30
8	SOUTH BOUNDARY WALL -BACK OF OLD STORE	65.07	67.7	61.70	62.84	60.20	64.50
9	SOUTH BOUNDARY WALL -BACK OF CANTEEN BUILDING	65.34	67.7	62.70	59.77	61.9	57.40
10	EXTRUSION # 2 CENTRE OF THE PLANT -NEAR NEW WEIGH BRIDGE	63.22	64.5	61.20	55.90	58.7	53.70
11	EXTRUSION # 2 AREA (EAST BOUNDARY WALL)	65.35	68.2	61.30	56.75	58.9	53.70
12	EXTRUSION # 2 AREA (NORTH BOUNDARY WALL)	66.75	68.9	64.70	67.85	59.2	56.60
13	EXTRUSION # 2 AREA (SOUTH BOUNDARY WALL)	64.98	66.4	62.70	56.65	58.9	53.70
14	EXTRUSION # 2 AREA (WEST BOUNDARY WALL)	63.13	65.80	58.40	52.09	53.8	49.80



Checked By: *D. Chakraborty*
Dy. Quality Manager
Envirocheck



Stamp



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

MARCH - 2024

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	:	02.03.2024, 04.03.2024 to 08.03.2024 & 11.03.2024 to 13.03.2024

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 02.03.2024, 04.03.2024 to 08.03.2024 & 11.03.2024 to 13.03.2024. 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 29 & 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.



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 TVWA (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 29 & 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)*

ii) 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 - (EVP)*
- 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



INDICATIVE CONSULTANT INDIA

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

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

Form No. - 30 Table No. - 1

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Mob - 9434017584

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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)(c) of the Act.

1. Name of the Department/Plant: **EXTRUSION #1 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 #1 PRESS FLOOR	Suspended Particulate Matter	02.03.2024	<i>See Annexure-I</i>	3	1.101 1.256 1.178	1.178	10.0	<i>See Annexure-I</i>	3	-	Below PEL	<i>[Signature]</i>	SUTRADHA R
		Respirable Particulate Matter			3	0.425 0.507 0.457	0.463	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:00 AM to 04:00 PM		3	0.016 0.021 0.015	0.017	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



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	02.03.2024	See Annexure-1	3	1.125 1.104 1.137	1.122	10.0	See Annexure-1	3	-	Below PEL		T. SUTRADHAR
		Respirable Particulate Matter			3	0.378 0.386 0.357	0.374	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	0.038 0.044 0.036	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Parbat
Authorized Signature



2/20

INDICATIVE CONSULTANT INDIA

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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	02.03.2024	See Annexure-1	3	1.136 1.204 1.187	1.176	10.0	See Annexure-1	3	-	Below PEL	[Signature]	SUTRADHAR
		Respirable Particulate Matter			3	0.247 0.265 0.276	0.263	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.016 0.021 0.015	0.017	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.035 0.040 0.033	0.036	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Parbat Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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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	02.03.2024	See Annexure-1	3	1.187 1.204 1.176	1.189	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	SUTRASHI AR
		Respirable Particulate Matter			3	0.558 0.574 0.532	0.555	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:30 AM to 05:30 PM		3	0.018 0.025 0.021	0.021	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.042 0.039	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parba
 Authorized



P-429

INDICATIVE CONSULTANT INDIA

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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)(c) of the Act.

1. Name of the Department/Plant : **Extrusion #2 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 #2 PRESS FLOOR	Suspended Particulate Matter	04.03.2024	See Annexure-1	3	1.025 1.011 0.987	1.008	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	0.405 0.429 0.447	0.427	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:10 AM to 04:10 PM		3	0.018 0.023 0.016	0.019	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

Parbat
 Authorized Signatory



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	04.03.2024	See Annexure-1	3	1.487 1.525 1.504	1.505	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	SUTRADHAR
		Respirable Particulate Matter			3	0.687 0.706 0.719	0.704	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:40 AM to 04:40 PM		3	0.021 0.027 0.018	0.022	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

Parbati Ghosh
Authorized Signatory



P 629

INDICATIVE CONSULTANT INDIA

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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)(c) of the Act.

1. Name of the Department/Plant : **FINISHING UNIT # 4**
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	FINISHING UNIT # 4	Suspended Particulate Matter	11.03.2024	See Annexure-I	3	1.268 1.297 1.246	1.270	10.0	See Annexure-I	3	-	Below PEL	<i>[Signature]</i>	I SUTRAHAR
		Respirable Particulate Matter			3	0.647 0.694 0.672	0.671	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:30 AM to 05:30 PM		3	0.019 0.024 0.018	0.020	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.039 0.043 0.036	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Chatterjee
 Authorized Signatory


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)(e) of the Act.

1. Name of the Department/Plant : **BAKING RH 16 SHOP FLOOR**
2. Raw materials, by-products and finished products : *See Annexure-1*
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 16 SHOP FLOOR	Suspended Particulate Matter	04.03.2024	See Annexure-1	3	2.254 2.266 2.271	2.264	10.0	See Annexure-1	3	-	Below PEL	[Signature]	SUTRADHAR
		Respirable Particulate Matter			3	0.914 0.927 0.956	0.932	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:10 AM to 05:10 PM		3	0.018 0.023 0.015	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.039 0.042 0.038	0.040	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For. INDICATIVE CONSULTANT INDIA

Parbat [Signature]
 Authorized Signatory


INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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Form No. - 30 Table No. - 9

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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)(c) 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		Remarks	Signature of person taking samples	Name (in block letter)
					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	04.03.2024	See Annexure-1	3	2.255 2.274 2.236	2.255	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	S. CHATTERJEE
		Respirable Particulate Matter			3	1.138 1.187 1.152	1.159	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:40 AM to 05:40 PM		3	0.018 0.023 0.016	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.044 0.035	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. - 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-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.	BAKING TUNNEL KILN SHOP	Suspended Particulate Matter	06.03.2024	See Annexure-I	3	2.657 2.679 2.592	2.643	10.0	See Annexure-I	3	-	Below PEL	[Signature]	SUTRA DHAR
		Respirable Particulate Matter			3	1.654 1.687 1.674	1.672	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.019 0.026 0.021	0.022	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.043 0.035	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



P 10/29

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: *See Annexure-1*

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	06.03.2024	See Annexure-1	3	2.668 2.674 2.685	2.676	10.0	See Annexure-1	3	-	Below PEL	<i>[Signature]</i>	S. MITTAL
		Respirable Particulate Matter			3	1.237 1.245 1.216	1.233	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.018 0.023 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.043 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. - 12

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 : **PITCH IMPREGNATION UNIT # 3 SHOP**
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.	PITCH IMPREGNATION UNIT # 3 SHOP	Suspended Particulate Matter	06.03.2024 09:30 AM to 05:30 PM	<i>See Annexure -I</i>	3	2.136 2.157 2.141	2.145	10.0	<i>See Annexure -I</i>	3	-	Below PEL		S. CHATTERJEE
		Respirable Particulate Matter			3	0.987 0.949 0.974	0.970	5.0		3	-	Below PEL		
		Sulphur Dioxide			3	0.018 0.023 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.033 0.044 0.037	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



P.12/29

INDICATIVE CONSULTANT INDIA

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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 (or Block letter)
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	BAKING RH # 24 (III)	Suspended Particulate Matter	08.03.2024	See Annexure-1	3	2.158 2.122 2.139	2.140	10.0	See Annexure-1	3	-	Below PEL		SUTRAJIT DAI
		Respirable Particulate Matter			3	0.947 0.932 0.918	0.932	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.017 0.022 0.014	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.030 0.037 0.031	0.033	5.0		3	-	Below PEL		

* PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Parturi
Authorized Signature



P.13/29

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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	07.03.2024 08:00 AM to 04:00 PM	See Annexure-1	3	2.437 2.496 2.344	2.426	10.0	See Annexure-1	3	-	Below PEL	Tapan Kumar	SUTRA DHAR
		Respirable Particulate Matter			3	1.169 1.187 1.153	1.170	5.0		3	-	Below PEL		
		Sulphur Dioxide			3	0.017 0.023 0.016	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.033 0.041 0.031	0.035	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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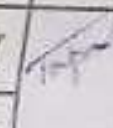

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Form No. - 30 Table No. - 15

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 Samples	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	07.03.2024	<i>See Annexure-1</i>	3	1.958 1.922 1.967	1.949	10.0	<i>See Annexure-1</i>	3	-	Below PEL		T. SUTRADHAR	
		Respirable Particulate Matter			3	0.855 0.869 0.741	0.822	5.0		3	-	Below PEL			
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.016 0.019 0.013	0.016	5.0		3	-	Below PEL			S. CHATTARAJ
		Nitrogen Dioxide			3	0.038 0.045 0.036	0.040	6.0		3	-	Below PEL			

* PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



P. 15/04

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)(c) 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 (or 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	07.03.2024	<i>See Annexure-1</i>	3	1.687 1.643 1.624	1.651	10.0	<i>See Annexure-1</i>	3	-	Below PEL	<i>[Signature]</i>	SUTRADHAR
		Respirable Particulate Matter			3	0.678 0.714 0.703	0.698	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.020 0.025 0.017	0.021	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.039 0.047 0.041	0.042	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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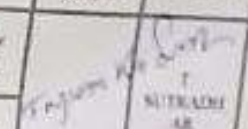
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Form No. - 30 Table No. - 17

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	07.03.2024	See Annexure-1	3	2.278 2.296 2.314	2.296	10.0	See Annexure-1	3	-	Below PEL		SUTRADHAR
		Respirable Particulate Matter			3	1.169 1.187 1.152	1.169	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:30 AM to 05:30 PM		3	0.020 0.027 0.019	0.022	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



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HPL Link Road, Basudevpur, Khanjanchak
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Form No. - 30

Table No. - 18

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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 : **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 of their lab
					No. of sample	Range mg/M ³	Avg. mg/M ³			Continuous Exposure	Short term Exposure			
1.	FINISHING # 2 SHOP FLOOR	Suspended Particulate Matter	13.03.2024	See Annexure-1	3	2.304 2.347 2.325	2.325	10.0	See Annexure-1	3		Below PEL	<i>[Signature]</i>	T. BHATTACHARYA
		Respirable Particulate Matter			3	1.441 1.426 1.408	1.425	5.0		3		Below PEL		
		Sulphur Dioxide	10:00 AM to 06:00 PM		3	0.018 0.024 0.019	0.020	5.0		3		Below PEL		
		Nitrogen Dioxide			3	0.037 0.043 0.035	0.038	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. - 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 (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 # 3 SHOP FLOOR	Suspended Particulate Matter	08.03.2024	See Annexure-1	3	2.784 2.852 2.743	2.793	10.0	See Annexure-1	3	-	Below PEL	Tajam K. Saha NUTRAJHAR	S CHAITANJ
		Respirable Particulate Matter			3	1.235 1.274 1.257	1.255	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:20 AM to 04:20 PM		3	0.018 0.023 0.017	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.031 0.043 0.033	0.036	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



P 18/29

INDICATIVE CONSULTANT INDIA

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Result of Analysis of: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 20

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-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.	GRAPHITE FINES SCREENING SHOP	Suspended Particulate Matter	08.03.2024 08:40 AM to 04:40 PM	See Annexure-I	3	3.187 3.175 3.203	3.188	10.0	See Annexure-I	3	-	Below PEL	[Signature]	SUTRADHAR
		Respirable Particulate Matter			3	1.628 1.602 1.578	1.603	5.0		3	-	Below PEL		
		Sulphur Dioxide			3	0.018 0.029 0.017	0.021	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.035 0.042 0.034	0.037	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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Result of Analysis of: **M/s. GRAPHITE INDIA LTD.,**

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

Form No. - 30

Table No. - 21

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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-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.	CANTEEN (KITCHEN AREA)	Suspended Particulate Matter	08.03.2024	See Annexure-I	3	1.174 1.196 1.168	1.179	10.0	See Annexure-I	3	-	Below PEL	[Signature]	SUTRADH AI
		Respirable Particulate Matter			3	0.678 0.696 0.651	0.675	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:20 AM to 05:20 PM		3	0.018 0.023 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



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Form No. - 30 Table No. - 22

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	13.03.2024 09:40 AM to 05:40 PM	See Annexure-1	3	1.328 1.315 1.339	1.327	10.0	See Annexure-1	3	-	Below PEL	<i>Tapan Kumar</i>	SUTRASHI AR
		Respirable Particulate Matter			3	0.747 0.785 0.753	0.762	5.0		3	-	Below PEL		
		Sulphur Dioxide			3	0.017 0.022 0.015	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.032 0.042 0.034	0.036	6.0		3	-	Below PEL		

• PEL: Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



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Form No. - 30

Table No. - 23

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-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.	PITCH IMPREGNATION UNIT # 4	Suspended Particulate Matter	12.03.2024	See Annexure-I	3	2.645 2.687 2.673	2.668	10.0	See Annexure-I	3	-	Below PEL	<i>[Signature]</i>	SUTRADHAR
		Respirable Particulate Matter			3	1.257 1.293 1.275	1.275	5.0		3	-	Below PEL		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.016 0.022 0.015	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide	3		0.035 0.042 0.038	0.038	6.0	3		-	Below PEL			

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA

Parbat Kumar
Authorized Signatory



P.23/29

INDICATIVE CONSULTANT INDIA

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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 Sample	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	12.03.2024	See Annexure-1	3	3.705 3.747 3.723	3.725	10.0	See Annexure-1	1	-	Below PEL	<i>[Signature]</i>	SUTRADHAR
		Respirable Particulate Matter			3	1.797 1.806 1.811	1.805			5.0	3	-		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.018 0.023 0.013	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.038 0.043 0.036	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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Result of Analysis of: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist – Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 25

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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-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	STORE SHOP FLOOR	Suspended Particulate Matter	12.03.2024	See Annexure-I	3	3.293 3.341 3.322	3.319	10.0	See Annexure-I	3	-	Below PEL	<i>Tapan K. Jyoti</i>	SUTRADHAR
		Respirable Particulate Matter			3	2.157 2.193 2.146	2.165	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:30 AM to 05:30 PM		3	0.016 0.026 0.013	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.032 0.042 0.030	0.035	6.0		3	-	Below PEL		

• PEL – Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



P. 25/29

INDICATIVE CONSULTANT INDIA

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

Result of Analysis of : **M/s. GRAPHITE INDIA LTD.,**
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Form No. - 30 Table No. - 26

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

1. Name of the Department/Plant : **MAINTANANCE SHOP FLOOR**
2. Raw materials, by-products and finished products : *See 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	11.03.2024	See Annexure-1	3	3.168 3.154 3.136	3.153	10.0	See Annexure-1	3	-	Below PEL	Tapas Kumar	SUTRAJIT AK
		Respirable Particulate Matter			3	1.426 1.447 1.415	1.429			5.0	3	-		
		Sulphur Dioxide	08:30 AM to 04:30 PM		3	0.015 0.023 0.014	0.017	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.045 0.035	0.039	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



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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	11.03.2024	<i>See Annexure-1</i>	3	3.732 3.775 3.743	3.750	10.0	<i>See Annexure-1</i>	3	-	Below PEL	<i>T. SUTRAJ HAR</i>	T SUTRAJ HAR
		Respirable Particulate Matter			3	2.056 2.098 2.074	2.076	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.016 0.024 0.015	0.018	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.035 0.040 0.033	0.036	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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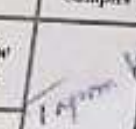
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Form No. - 30 Table No. - 28

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)(c) of the Act.

1. Name of the Department/Plant : **GRAPHITE ACHESON 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 ACHESON SHOP	Suspended Particulate Matter	06.03.2024	See Annexure-1	3	3.225 3.287 3.253	3.255	10.0	See Annexure-1	3	-	Below PEL		T SUTRADHAR
		Respirable Particulate Matter			3	1.901 1.874 1.863	1.879	5.0		3	-	Below PEL		
		Sulphur Dioxide	10:00 AM to 06:00 PM		3	0.015 0.023 0.019	0.019	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.036 0.043 0.034	0.038	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
Authorized Signatory



28/29

INDICATIVE CONSULTANT INDIA

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

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

Ph: 03224-275765

Mob - 9434017584

e-mail: jayantarkar57@gmail.com
indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 29

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 - 14 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 RH - 14 SHOP	Suspended Particulate Matter	13.03.2024	See Annexure-1	3	3.652 3.617 3.633	3.634	10.0	See Annexure-1	3	-	Below PEL	<i>T. SUTRADHAR</i>	T. SUTRADHAR
		Respirable Particulate Matter			3	1.985 1.947 1.839	1.924	5.0		3	-	Below PEL		
		Sulphur Dioxide	09:00 AM to 05:00 PM		3	0.015 0.022 0.013	0.017	5.0		3	-	Below PEL		
		Nitrogen Dioxide			3	0.037 0.043 0.032	0.037	6.0		3	-	Below PEL		

• PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
Authorized Signatory



29/29

INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 1

Ph - 03224-275765

Mob - 94340 17284


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)	08.03.2024	<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		
	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



INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 2

Ph: 03224-275765

Mob - 94340 17584

e-mail : jayantaskar67@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: **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)	04.03.2024	<0.1	260	See Annexure-1	Below PEL	[Signature]	A BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		Below PEL		
	Formic Acid (as HCOOH)	09:40 AM to 05:40 PM	<0.05	9		Below PEL	[Signature]	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



INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 3

Ph: 03224-275765

Mob. - 94340 17584

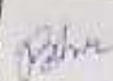

e-mail: jayantasarkar67@gmail.com / indicativeconsultantindia@gmail.com

M/s. GRAPHITE INDIA LTD.

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

RESULT OF WORK ZONE MONITORING:-

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

Location / 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)	06.03.2024	<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		
	Benzene (as C ₆ H ₆)		<0.05	20		Below PEL		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		Below PEL		
							S CHATTARAJ	

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPI Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur-721602
 Govt Regn.No.-L-64871, MSME Reg. No.: WB-12-0060228

Form No. - 30

Table No. - 4

Ph - 93224 27563
 Mob - 94340 17564
 e-mail - jayanta@icindia.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: **P.I. 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.I. UNIT - 2 SHOP	Methyl Alcohol (as CH ₃ OH)	06.03.2024	<0.1	260	<i>See Annexure-1</i>	<i>Below PEL</i>	<i>[Signature]</i>	A BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		<i>Below PEL</i>		
	Formic Acid (as HCOOH)	09:00 AM to 05:00 PM	<0.05	9		<i>Below PEL</i>	<i>[Signature]</i>	S CHATTARAI
	Benzene (as C ₆ H ₆)		<0.05	20		<i>Below PEL</i>		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		<i>Below PEL</i>		

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Choudhury
 Authorized Signatory



P.4.0

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: 03224-275765
 Mob - 9434017584
 e-mail - joyantasarkar67@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)	06.03.2024	<0.1	260	<i>See Annexure-1</i>	<i>Below PEL</i>	<i>[Signature]</i>	A. BHATTACHARYA
	Ethyl Alcohol (as C ₂ H ₅ OH)		<0.1	1900		<i>Below PEL</i>		
	Formic Acid (as HCOOH)	10:00 AM to 06:00 PM	<0.05	9		<i>Below PEL</i>		
	Benzene (as C ₆ H ₆)		<0.05	20		<i>Below PEL</i>		
	Toluene (as C ₆ H ₅ CH ₃)		<0.05	375		<i>Below PEL</i>		
						<i>[Signature]</i>	S. CHATTARAJ	

PEL - Permissible Exposure Limit.

For, INDICATIVE CONSULTANT INDIA

Parbati Choudhury
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 6

Ph. 03224-275763
 Mob - 94340 17384
 e-mail - jayantusarkar67@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: **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)	07.03.2024	<0.1	260	See Annexure-1	Below PEL		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		CHATTARAI
	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
 Govt.Reg.No.-L-64871; MSME Reg. No.: WB-12-0000228

Ph - 03224275765

Mob - 9434017584

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

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	07.03.2024	02:40 PM	Annexure-1	84.2	84.1	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		S. SUTRADHAR
						83.8							
						85.6							
						82.8							
						85.1							
						83.8							
						84.2							
						85.0							
						83.9							
82.8													

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Ph - 03224-275763

Mob - 9434017584

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	07.03.2024	03:15 PM	Annexure-1	83.8	84.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3	<i>[Signature]</i>	T. SUTRADHAR
						82.2							
						86.4							
						85.1							
						84.2							
						86.1							
						85.9							
						84.2							
						82.1							
						83.6							S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Gola
 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

Form No. - 30

Table No. - 3

Ph - 03224-275765

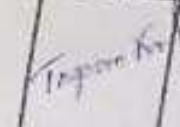

Mob - 94340 17584

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

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor : 1.5 M

Distance from the Machine : 3.0 M

Sl 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	07.03.2024	04:30 PM	Annexure-1	84.1	84.5	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						85.6							
						83.9							
						82.2							
						84.8							
						85.0							
						84.2							
						86.1							
						85.1							
84.4													
												S. CHAITRA RAJ	

For, INDICATIVE CONSULTANT INDIA

Parbat Chatterjee
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

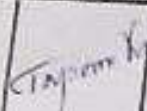
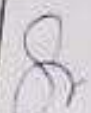
Form No. - 30

Table No. - 4

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 PRESS FLOOR	Noise level Monitoring	07.03.2024	03:55 PM	Annexure-1	81.2	83.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						79.6							
						82.3							
						83.4							
						81.0							
						84.1							
						85.6							
						83.8							
						84.0							
85.1													
												S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA

Parbati Golu
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Ph - 03224-275765

Mob - 94340 17584

e-mail : jayantasarkar67@gmail.com
 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
E	EXTRUSION #2 PRESS FLOOR	Noise level Monitoring	11.03.2024	02:10 PM	Annexure-1	82.9	83.7	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	<i>[Signature]</i>	T. SUTRADHAR
						84.6							
						85.2							
						83.8							
						83.0							
						84.1							
						82.8							
						83.6							
						83.1							
						84.2							
												<i>[Signature]</i>	S. CHATTA RAI

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Gollu
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 6

Ph - 03224-273765

Mob - 94340 17344

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

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor : 1.5 M

Sl 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	11.03.2024	02:50 PM	Annexure-1	82.8	83.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	[Signature]	S. CHATTERJEE
						84.6							
						83.9							
						84.4							
						83.8							
						82.6							
						84.0							
						83.8							
						84.1							
84.6													

Distance from the Machine : 3.0 M

For, INDICATIVE CONSULTANT INDIA

[Signature]
 Parbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPI Link Road, Basudevpur, Khanjanchak
Halidra, Purba Medinipur-721602

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

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

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

Form No. - 30

Table No. - 7

Ph - 03224-275763

Mob - 94340 17584

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

Height from the floor: 1.5 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 (H) SHOP FLOOR	Noise level Monitoring	11.03.2024	12:10 PM	Annexure-1	83.9	84.7	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3	[Signature]	S. CHATTERJEE
						84.6							
						82.2							
						85.2							
						86.1							
						84.9							
						85.8							
						86.0							
						84.8							
85.9													

Distance from the Machine - 3.0 M

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

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

Ph - 03224-273763

Mob - 94340 17184

e-mail - jayantaxarkar67@gmail.com

indicativeconsultantindia@gmail.com

Form No. - 30

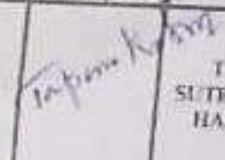
Table No. - 8

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	11.03.2024	11:20 AM	Annexure-1	82.8	82.5	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.9							
						83.1							
						81.8							
						82.2							
						83.1							
						82.6							
						82.4							
						83.0							
82.1													

For, INDICATIVE CONSULTANT INDIA

Parbati G...
Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Ph - 03224-273763

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 indicativeconsultantindia@gmail.com

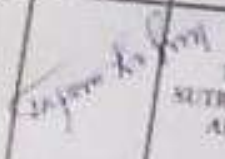

Form No. - 30

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	11.03.2024	10:05 AM	Annexure-1	82.4	82.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.6							
						83.2							
						81.4							
						82.9							
						82.6							
						83.0							
						81.2							
						82.4							
82.6													
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA

Purbati Ghosh
 Authorized Signature



INDICATIVE CONSULTANT INDIA

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 Haldia, Purba Medinipur-721602
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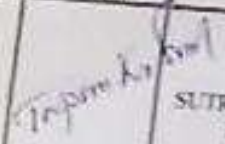

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 10

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-24(I) SECTION SHOP FLOOR	Noise level Monitoring	11.03.2024	10:40 AM	Annexure-1	83.8	83.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T SUTRADHA R
						81.2							
						84.2							
						82.2							
						82.6							
						83.0							
						82.8							
						84.1							
						82.2							
						83.8						S CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA


 Parbati Gola
 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

Form No. - 30

Table No. - 11

Ph - 03224-573763
 Mob - 94140 17584
 e-mail - jayantimarkar@gmail.com
 indicativeconsultantindia@gmail.com

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal
 Height from the floor : 1.5 M

Sl. 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 GRH-24 (II)	Noise level Monitoring	07.03.2024	02:00 PM	Annexure-1	81.6	82.2	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		S. NUTRAJIT AK
						82.4							
						80.3							
						82.9							
						81.0							
						82.6							
						81.8							
						82.1							
						83.2							
81.9													

Distance from the Machine : 3.0 M

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

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 12

Ph - 03224-273765
 Mob - 9434017584
 e-mail : jayantaskar67@gmail.com
 indicativeconsultantindia@gmail.com

Height from the floor : 1.5 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 SHOP	Noise level Monitoring	04.03.2024	04:40 PM	Annexure-1	82.4	82.5	8 hrs	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3	<i>[Signature]</i>	T. SUTRADHAR
						81.4							
						83.4							
						82.4							
						82.9							
						81.9							
						83.2							
						82.1							
						82.6							
83.0													
												<i>[Signature]</i>	S. CHATTA RAJ

Distance from the Machine : 3.0 M

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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Ph - 03224-275765

Mob - 94340 17554

e-mail : jayantatarkar67@gmail.com
 indicativeconsultantindia@gmail.com



Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 13

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	07.03.2024	09:40 AM	Annexure- I	82.4	82.6	8 hrs.	Exposure Limit for Industrial workers (8 hrs) - 90 dB(A)	Annexure- I	3		T. SUTRADHAR
						81.6							
						83.9							
						82.2							
						83.0							
						81.9							
						82.4							
						83.6							
						82.1							
82.4													
												S. CHATTA RAJ	

For, INDICATIVE CONSULTANT INDIA

Parbati Chakraborty
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Ph - 03224-275765

Mob - 94340 17584

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

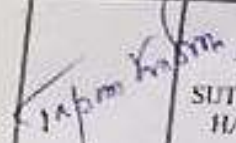

Form No. - 30

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	07.03.2024	10:20 AM	Annexure-1	81.9	82.8	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						83.2							
						83.6							
						82.8							
						81.8							
						83.8							
						82.8							
						82.6							
						83.1							
82.2													
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA

Parbati Gohary
 Authorized Signatory



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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 indicativeconsultantindia@gmail.com

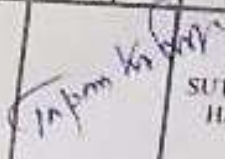
Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 15

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 # 4 SHOP	Noise level Monitoring	07.03.2024	11:00 AM	Annexure-1	82.1	82.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.9							S. CHATTA RAJ
						83.1							
						81.8							
						82.4							
						83.6							
						82.4							
						81.0							
						82.2							
83.1													

For, INDICATIVE CONSULTANT INDIA

Parbat G...
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

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

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 16



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 indicativeconsultantindia@gmail.com

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	LAWG # 3 SHOP	Noise level Monitoring	07.03.2024	12:20 PM	Annexure-1	82.8	82.8	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		T. SUTRAJIT AR
						83.0							
						83.9							
						81.6							
						82.2							
						82.4							
						83.8							
						82.6							
						83.1							
83.0													
												S. CHATTAR	

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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 indicativeconsultantindia@gmail.com

Form No. - 30 Table No. - 17

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Height from the floor: 1.5 M

Sl. 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	Distance from the Machine - 3.0 M		
													Name in block letters		
1.	LWG # 4 SHOP	Noise level Monitoring	07.03.2024	11:40 AM	Annexure-1	81.4	82.6	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3	[Signature]	S. CHATTERJEE		
						82.9									
						82.1									
						83.6									
						82.7									
						83.2									
						81.6									
						82.4									
						82.8									
						83.1									

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL, Link Road, Basudevpur, Khanjanchak
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 Mob - 94340 17584


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Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30 Table No. - 18

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	04.03.2024	03:20 PM	Annexure-1	80.6	79.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		S. CHATTERJEE
						78.4							
						79.8							
						77.4							
						79.3							
						81.2							
						80.2							
						78.9							
						79.4							
						78.6							

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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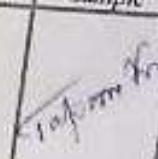

Form No. - 30

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	04.03.2024	02:45 PM	Annexure-1	81.2	80.9	8 hrs	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						80.6							
						80.8							
						79.6							
						81.9							
						82.4							
						81.4							
						80.6							
						81.4							
78.6													
												S. CHATTAR	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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

Form No. - 30

Table No. - 20

Ph - 03224-275765



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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 #1 SHOP FLOOR	Noise level Monitoring	04.03.2024	10:00 AM	Annexure-1	82.4	82.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.6							
						83.1							
						82.2							
						84.4							
						83.9							
						82.6							
						84.0							
						82.1							
83.1													
												S. CHATTARAJ	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak
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 indicativeconsultantindia@gmail.com

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 21

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 #2 SHOP FLOOR	Noise level Monitoring	04.03.2024	10:35 AM	Annexure-1	84.1	84.0	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		S. CHAITA RAI
						83.6							
						85.1							
						84.9							
						83.6							
						82.8							
						84.9							
						85.0							
						82.8							
83.4													

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

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 22

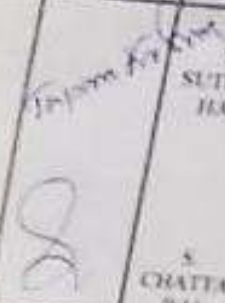
Ph - 03224-275765

Mob - 94340 17564

e-mail jayantnarikard@gmail.com

indicativeconsultantindia@gmail.com

Height from the floor : 1.5 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	04.03.2024	11:10 AM	Annexure-1	82.9	83.2	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		SUTRADHAR
						84.1							
						83.6							
						82.8							
						83.9							
						84.0							
						83.1							
						82.2							
						83.0							
82.6													

Distance from the Machine : 3.0 M

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPI, Link Road, Basudevpur, Khanjanchak
 Haldia, Purba Medinipur-721602
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 Mob - 94340 17584
 e-mail: jayantisarkar7@gmail.com
 indicativeconsultantindia@gmail.com

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30 Table No. - 23

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	04.03.2024	12:40 PM	Annexure-1	79.4	80.4	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						80.6							
						81.4							
						78.2							
						79.6							
						82.1							
						80.3							
						82.0							
						80.8							
						79.3							S. CHATTA RAJ

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
 Authorized Signatory

INDICATIVE CONSULTANT INDIA

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

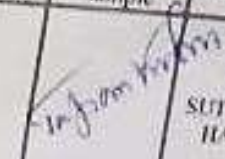

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 Mob - 94340 17584
 e-mail - jayantasarkar67@gmail.com
 indicativeconsultantindia@gmail.com

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30 Table No. - 24

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	04.03.2024	12:05 PM	Annexure-1	80.8	81.8	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) - 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						81.4							
						82.8							
						80.4							
						81.1							
						82.2							
						81.9							
						82.4							
						83.2							
82.0													
												S. CHATTERJEE	

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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

Ph - 03224-275765

Mob - 94340 17584

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

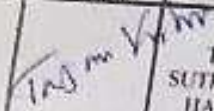

Result of Analysis: **M/s. GRAPHITE INDIA LTD.,**
 Address: Dist - Paschim Bardhaman, Durgapur, PIN -713211, West Bengal

Form No. - 30

Table No. - 25

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.	CORE SAMPL E SHED	Noise level Monitoring	04.03.2024	02:10 PM	Annexure-1	78.9	80.3	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		T. SUTRADHAR
						79.3							
						81.2							
						80.4							
						82.2							
						80.4							
						81.6							
						79.3							
						78.9							
						80.8						S. CHATTERJEE	

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

Ph - 03224-275763

Mo - 9434017384

e-mail - juyantasarkar67@gmail.com
 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	04.03.2024	04:00 PM	Annexure-1	87.9	87.9	8 hrs.	Exposure Limit for Industrial workers (8 hrs.) = 90 dB(A)	Annexure-1	3		S. CHATTARAJ
						88.4							
						86.8							
						87.2							
						88.1							
						89.3							
						88.2							
						88.9							
						87.4							
86.9													

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

HPL Link Road, Basodevpat, Khanjancluk, 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 11.03.2024	32.0°C	27.0°C
Ambient Air flow - 66 m/min N to S		

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		
							at entrance gate	at middle of the plant	Dry Bulb	Wet Bulb						Dry Bulb	Wet Bulb
1	Inside Work Place	Volume of Air change	11.03.2024 02:05 PM to 03:45 PM	Anemometer /	1712.5 m ³ x 6	28124.25 m ³					100% of air change/hr at all 12 work place	Anemometer /	Adjustment		S. K. Das		
2	Inside Work Place	Velocity of Air at work place						10 m/min at the entrance gate								10 m/min at work place at 2.5 M height	Adjustment
3	Inside Work Place At middle of the plant	Temperature at work place								14.0°C						28.0°C	Dry Bulb less than 27°C

INDICATIVE CONSULTANT INDIA



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HPI- 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 On 11.03.2024	Dry Bulb	Wet Bulb
	27.0°C	22.0°C
Ambient Air flow - 72m/min N to S		

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	11.03.2024 10:10 AM to 11:55 AM	Annexure-1	18048.6 m ³ x 6 = 1,08,291.6 m ³	822457.59 m ³	-	-		Vol. of Air change/hr 6 x Vol. of work place	Annexure-1	Adequate		A. BHAI TA CHARVA
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			-	-	-	Dry Bulb 29.0°C	Wet Bulb 24.0°C	Wet Bulb less than 30°C		Adequate		

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
Authorized Signatory



INDICATIVE CONSULTANT INDIA

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 On 02.03.2024	Dry Bulb	Wet Bulb
	30.0°C	25.0°C
Ambient Air flow - 72 m/min N to S		

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	02.03.2024 02:10 PM to 03:45 PM	Annexure-1	46832.32 m ³ X 6 = 2,80,993.92 m ³	350541.63 m ³				Vol. of Air change/hr > 6 x Vol. Of work place	Annexure-1	Adequate		A. BHATE-CHARYA
2.	Inside Work Place	Velocity of Air at work place					36 m/min - at LHS of furnace 30 m/min - at RHS of furnace 36 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 33.0°C	Wet Bulb 26.0°C		Wet Bulb less than 30° C		

For, INDICATIVE CONSULTANT INDIA

Purba Medinipur
Authorized Signatory

INDICATIVE CONSULTANT INDIA

HPI, 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 08.03.2024	31.0°C	26.0°C
Ambient Air flow - 72 m/min N to S		

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	08.03.2024 02:10 PM to 04:00 PM	Annexure-1	9,853.56 m ³ X 6 = 59,121.36 m ³	87684.41 m ³	-			Vol. of Air change/hr = 6 x Vol. of work place	Annexure-1	Adequate		A. BHATTA CHAKRABORTY
2.	Inside Work Place	Velocity of Air at work place					42 m/min - at Entrance Gate 16 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 33.0°C	Wet Bulb 28.0°C	Wet Bulb less than 30°C		Adequate		

For, INDICATIVE CONSULTANT INDIA

Authorized



INDICATIVE CONSULTANT INDIA

HPI, Ltd. 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 08.03.2024	28.0°C	23.0°C
Ambient Air flow - 84 m/min N to S		

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	08.03.2024	Annexure-1	58176 m ³ x 6	1473654.57					Vol. of Air change/hr > 6 x Vol. Of work place		Adequate		SHALITA CHATTERJEE
						3,49,056 m ³	m ³						Adequate		
2.	Inside Work Place	Velocity of Air at work place			09:50 AM to 11:35 AM				48 m/min - at entrance of 1 st Gate				30 m/min at work place at 1.5 M height		
							36 m/min - at entrance of 2 nd Gate						Adequate		
							42 m/min - at middle						Adequate		
3.	Inside Work Place At middle of the plant	Temperature at work place						Dry Bulb	Wet Bulb	Wet Bulb less than			Adequate		CHAITRA RAY
								32.0°C	27.0°C	30°C					

For, INDICATIVE CONSULTANT INDIA

Authorized Signatory



INDICATIVE CONSULTANT INDIA

HPI 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. - 6

Name of Department/Plant: FINISHING # 1

Ambient Temperature On 04.03.2024	Dry Bulb	Wet Bulb
	31.0°C	26.0°C
Ambient Air flow - 66 m/min N to S		

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	04.03.2024 02:05 PM to 03:40 PM	Annexure-1	12522.4 m ³ x 6 = 75,134.4 m ³	138524.11 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 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 30.0°C	Wet Bulb 25.0°C		Wet Bulb less than 30°C		

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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. - 7

Name of Department/Plant: FINISHING # 2

Ambient Temperature On 04.03.2024	Dry Bulb	Wet Bulb
	27°C	22.0°C
Ambient Air flow - 78 m/min N to S		

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	04.03.2024 10:10 AM to 11:50 AM	Annexure-1	24597.54 m ³ X 6 = 1,47,585.24 m ³	167474.33 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			-	-	42 m/min - at entrance of 1 st Gate 36 m/min - at entrance of 2 nd Gate 36 m/min - at the middle			20 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 26.0°C	Wet Bulb 22.0°C		Wet Bulb less than 30° C		

For, INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

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 On 02.03.2024	Dry Bulb	Wet Bulb
	26.0°C	20.0°C
Ambient Air flow - 66 m/min N to S		

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	02.03.2024 10:30 AM to 12:05 PM	Annexure-1	98,344.81 m ³ X 6 = 5,90,068.86 m ³	756024.02 m ³			Vol. of Air change/hr = 6 x Vol. Of work place		Adequate		A. BHATTACHARYA	
2	Inside Work Place	Velocity of Air at work place						30 m/min - East Side of the Furnace 36 m/min - West Side of the Furnace 36 m/min - East Side of the Shed 30 m/min - West Side of the Shed 36 m/min - Middle of the Shed	30 m/min at work place at 1.5 M height	Annexure-1	Adequate			
3	Inside Work Place At middle of the plant	Temperature at work place							Dry Bulb 31.0°C Wet Bulb 25.0°C	Wet Bulb less than 30°C				Adequate

For, INDICATIVE CONSULTANT INDIA



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	07.03.2024	Digital Lux Meter	By Digital Lux Meter	222	65	Adequate	[Signature]	SUTRADHAR	
2	EXTRUSION #1 WEDGE WORKING AREA					196	65	Adequate			
3	EXTRUSION #2 PRESS WORKING AREA					131	65	Adequate			
4	EXTRUSION #2 14 MTR. WORKING FLOOR					270	65	Adequate			
5	REID HAMMER BAKING-14 WORKING AREA					152	65	Adequate			
6	REID HAMMER BAKING-16 WORKING AREA					130	65	Adequate			
7	REID HAMMER BAKING-24 (D) WORKING AREA					117	65	Adequate			
8	REID HAMMER BAKING-24 (B) WORKING AREA					298	65	Adequate			
9	REID HAMMER BAKING-24 (DH) WORKING AREA					182	65	Adequate			
10	BAKING TUNNEL KIEN WORKING AREA					248	65	Adequate			
11	PITCH IMPREGNATION UNIT # 2 WORKING AREA		6:20 PM	8:00 PM			438	65			Adequate
12	PITCH IMPREGNATION UNIT # 3 WORKING AREA		426				65	Adequate			
13	PITCH IMPREGNATION UNIT # 4 WORKING AREA		270				65	Adequate			
14	WG # 1 WORKING AREA		412				65	Adequate			
15	WG # 4 WORKING AREA		152				65	Adequate			
16	WG # 3 WORKING AREA		147				65	Adequate			
17	GRAPHITE ADHESION WORKING AREA		160				65	Adequate			
18	SHEDDING # 1 WORKING AREA		227				65	Adequate			
19	SHEDDING # 2 WORKING AREA		270				65	Adequate			
20	SHEDDING # 3 WORKING AREA		409				65	Adequate			
21	SHEDDING # 4 WORKING AREA	580	65	Adequate							
22	MAINTENANCE DEPARTMENT	306	65	Adequate							
23	MAIN STORE AREA	156	65	Adequate							
24	CANTEEN	226	65	Adequate							
25	NEAR MAIN GATE	238	65	Adequate							
26	LADDERWAY	212	65	Adequate							

Note: As per Factories Rules, 1950, Rule No R 31 (prescribed under sub section (4) of section 17

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 2022)
- iv) Oxides of Nitrogen (NO_x) : As per IS 5182 (Part - VI) 2006 (RA 2022)
- 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



Environment Monitoring Photographs

Workzone Monitoring



Stack Monitoring



Ambient Monitoring



Noise Monitoring



Water Monitoring





GRAPHITE INDIA LIMITED

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



April 10, 2024

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 February 2024. Since no waste water is discharged outside, Since no waste water is discharged outside, Jan 2024, Feb 2024 & Mar 2024 Effluent report is for the two combined outfall (i.e LWG#4 & Old weigh Bridge) before and after recycled water filtration details and Extrusion#2 outfall treated details. Analysis is done by WBPCB Authorized agency M/s Indicative Consultant India, 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
Executive Vice President (Works)

Annexure-5

Air Pollution Control System



Annexure-6

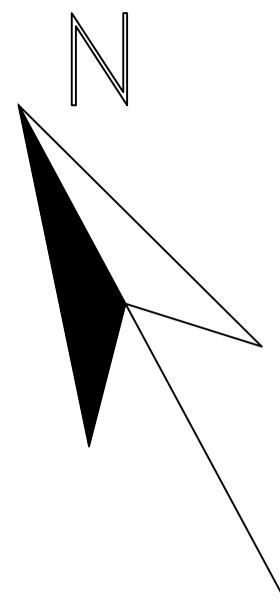
Existing Rainwater Harvesting System



Annexure-7

Green Belt





248

RH # 24 UNIT 3 WITH ETP SYSTEM

139 SQ.M

PROPOSED GREEN AREA = 4332 SQ.M
 ACTUAL GREEN AREA DEVELOPED = 4369 SQ.M

NO. OF TREES PLANTED	
1. MANGO	180
2. JACKFRUIT	148
3. BAKUL	143
4. RADHA CHURA	138
5. KRISHNA CHURA	79
TOTAL	688 pcs.

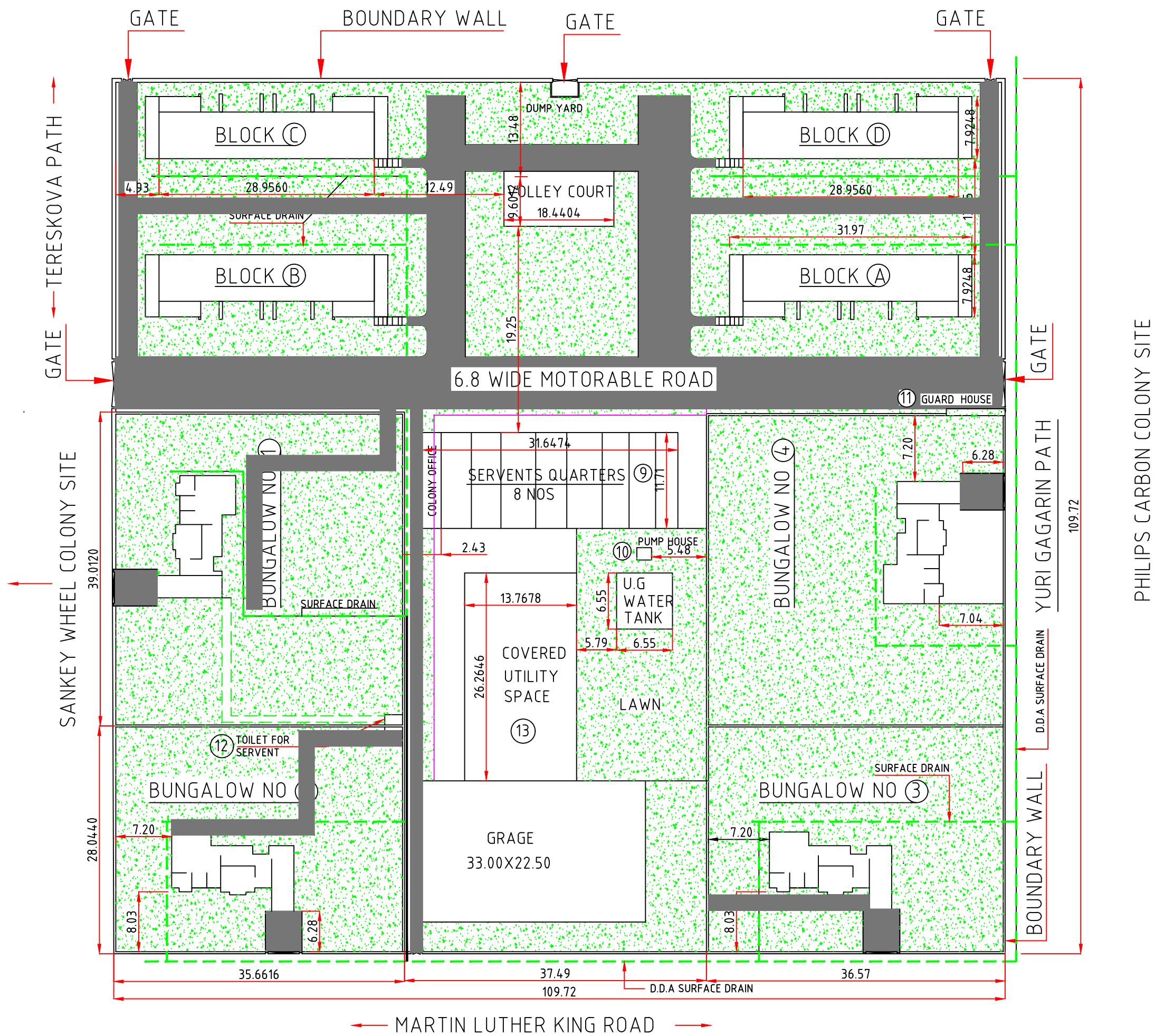
	GRAPHITE INDIA LTD.			
	DURGAPUR, (INDIA)			
	NAME	SIGN	DATE	TITLE:- SHEET: 1 OF 1
	DRN.	R.S.G	25.03.24	PLANTATION PLAN FOR PROPOSED PROJECT BY GRAPHITE INDIA LTD DURGAPUR-713211, DIST: PASCHIM BARDHAMAN WEST BENGAL.
	CHD.			
	APRD.			
CAD FILE:GIL PLANT LAYOUT				DRG. NO. -1806
SCALE:- 1:100				REV :



Graphite India Limited Old Colony Plantation Area



Graphite India Limited New Colony Plantation Area



NOTE:-

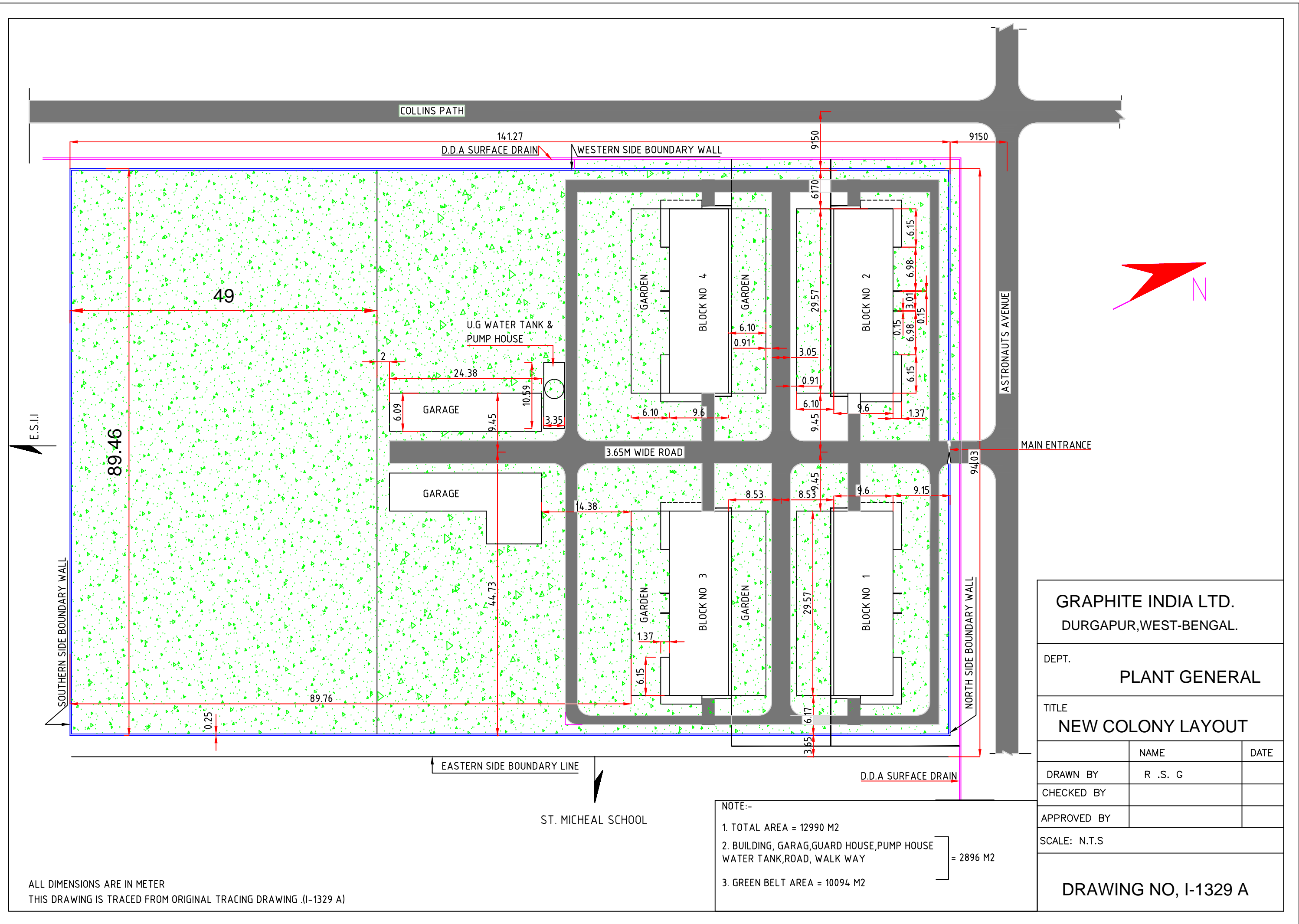
1. TOTAL AREA = 12140 M2
2. BUILDING, BUNGALOW, SERVENT QUARTERS, PUMP HOUSE, GUARD HOUSE, WATER TANK, ROAD, GARAGE, AUDITORIUM, VOLLEY COURT. = 4190 M2
3. GREEN BELT AREA = 7950 M2

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		

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

DRAWING NO, I-1496



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		

DECEMBER-2023

GRAPHITE INDIA
HEALTH
DAILY PATIENT

Sl. No.	Date	Name of the Patient	Dept.	Desig.	E. B. No.
01	01/12/23	Mr Laloo GK	Form		A
02	"	Mr Prabhu Raj	Manit		
03	"	Mr Utkarsh Bauri	Long		
4	"	Mr Mohsin Raza	Form	gr	B
5	"	Mr Biswasjit Bose	Yard		
6	"	Mr Ramzan SK	W/W		
7	"	Mr Dilip Dikta	EXT		
8	"	Mr Md. Dilwar	EXT		
9	2/12/23	Mr. Gopal Rai	Firestry	gr	A
10	"	Mr Dilip Dikta	EXT		
11	"	Mr Jaleswar Rajala	contct lmr		
12	"	Mr Dulal sit	contct lmr		
13	"	Mr Dhann Bani	Drumhite		
14	"	Mr Tapan Maji	contct lmr (Firestry)		
15	"	Mr Anwar Saha. 10.15 AM	contct lmr		
16	"	Mr S.A. Beig	Manit		
17	"	Mr Zerate Banerjee	personnel		
18	"	Mr Ramu Ghosh	W/W		
19	"	Mr Bikas Ghosh	contct lmr		
20	"	Mr Md. Yunus	Shiping		
21	"	Mr Krishnendu Nayak	PLC	wd	B
22	"	Mr Ananda W	Grubbe		
23	"	Mr Rabin Panda	Baraf		
24	"	Mr Biswasjit Bose	Yard		
25	"	Mr Suban Saha	Baraf		
26	"	Mr Anant	Baraf		
27	"	Mr Shegan Mishra	Ext		
28	"	Mr Nabin Ghosh	Shuffing		
29	"	Mr Sanjay Haldar	Cont		
30	"	Mr R. N. Mahanta	W/W		
31	"	Mr Sakeep Singh	Office		
32	"	Mr Anand Das	Manit		
33	03/12/23	Mr Radis SK	Shuffing		A
34	"	Mr Biswasjit Banerjee	Contct		

LIMITED, Durgapur-11
FIRST AID CENTRE
ATTENDANCE REGISTER

Annexure-8

 GID-TRG-F023
 RO WEF 20.02.2014

Treatment Given

Farnoid-2
 Abcayt,
 Farnoid-1
 Ramec-1.
 Applied redis juy.
 longesic plus, Farnoid-1, Applied Accepsen Gel
 Applied cipro eye drops R eye.
 Farnoid-1
 Ramec-1.
 Applied cipro, 3 eye drops R eye.
 Ornef, Farnoid-1
 Applied cipro 3 eye drops L eye.
 PCM (SOD) 2
 BP. 130/100. Aciloc PD-1.
 Digene-2.
 PCM G50-1.
 Farnoid-1.
 Ramec-2.
 PCM (SOD)-1.
 PDD-1, Farnoid Diad-1
 Diad-1
 Applied cipro 3 eye drops
 Administroy amed
 Abcayt, Farnoid-1
 ORS-1, Farnoid-1 amed
 Farnoid-1
 AmegpH Farnoid-1
 Diad-1.
 AmegpH, Farnoid-2
 Farnoid-1 PGD-1
 Metconidazole
 longesic plus Farnoid-1
 3/eye-1

JANUARY - 2024

GRAPHITE INDIA
HEALTH
DAILY PATIENT

Sl. No.	Date	Name of the Patient	Dept.	Desig.	E. B. No.
1	1/1/24	Mv. Bhanujit Latta	Staff		Mr A
2	"	" Akshay Akh	Lab		-
3	"	" Akshay Sengupta	Medic		-
4	"	" N. J. K. Dasgupta	Medic		Spcl D
5	"	SK Mukherjee	Geny		-
6	"	Mr. Raman Chhetri	Geny		-
7	"	Mr. Nizamulla Bangia	Inspr		-
8	"	Mr. Kunal Das	Inspr		-
9	"	Mr. S.A. Singh	Medic		-
10	"	Mr. Shambhu Bhowmik	Geny		-
11	"	Mr. Sub. Mohanta	Admin		-
12	"	Mr. Manoj Chhetri	Finan		-
13	"	Mr. Venk. Thakur	Geny		-
14	"	Mr. Sunam Das	Medic		-
15	"	Mr. Sudhanu Jindal	Geny		-
16	2/1/24	Mr. Sand Anson	Cont		Spcl A
17	"	Mr. Shyamal Chhetri	Finan		-
18	"	Mr. H.S. Das	Secur		-
19	"	Mr. B. Bose	Geny		-
20	"	Mr. Sagar Singh	Cont		-
21	"	Mr. Kumar Khora	Cont		-
22	"	Mr. Kunal Das	Cont		Mr B
23	"	Mr. Anish Ghosh	Lab		-
24	"	Mr. R. Das	Geny		-
25	"	Mr. S. Das	Cont		-
26	"	Mr. Mukherjee	Cont		-
27	"	Mr. Sunam Das	Geny		Spcl C
28	03/01/24	Mr. B. Bose	Medic		Mr A
29	"	Mr. Anish Ghosh	Medic		-
30	"	Mr. Anish Ghosh	Geny		-
31	"	Mr. Anish Ghosh	Cont		-
32	"	Mr. Anish Ghosh	Geny		-
33	"	Mr. Anish Ghosh	Cont		-
34	"	Mr. Anish Ghosh	Geny		-

LIMITED, Durgapur-11
1st AID CENTRE
ATTENDANCE REGISTER

 GID-TRG-F023
 RO WEF 20.02.2014

Treatment Given

Alloy - 1.
Alloy - 1.
Metro (400) - 2.
Cap - 1, Femurid - 1
Dressing
Mixt - Cominitine
P - 50 - 1
Applied Valium spray
Mixt - Cominitine, Femurid - 1
Ibuprofen - 1, Femurid - 1
Mixt - Cominitine
Mixt - Cominitine, Femurid - 1
Mixt - Cominitine
Femurid - 1, Alloy - 1
Calimax - 1, Femurid - 1
Femurid - 1, Mixt - Cominitine
Ibuprofen - 1, Femurid - 1
Applied Valium spray
Applied Ciplan DED
T - 1, Dexam - 1, Ibuprofen - 1, Femurid - 1
Applied Valium spray
Alloy - 1
Alloy - 1 Cap - 1
Calimax - 1, Femurid - 1
Alloy - 1 P - 50 - 1
Femurid - 1, Smooth Digest - 1
Applied Valium spray
Dressed
Femurid - 1
Bandaid - 1
Applied Ciplan DED P/E
Bandaid - 1
Femurid - 2

Feb-24

GRAPHITE INDIA

HEALTH
DAILY PATIENT

LIMITED, Durgapur-11

/ FIRST AID CENTRE
ATTENDANCE REGISTERGID-TRG-F023
RO WEF 20.02.2014

Sl. No.	Date	Name of the Patient	Dept.	Desig.	E. B. No.
01	01/02/24	Mr. St. A. Beg	Mainit		W2 A
02	"	Mr. Biswajit Bose	yard		
03	"	Mr. Amit K. Hazra	finif	officer	-
04	"	Mr. Akshay Kalyan	Finif	915	slpt B
05	"	Mr. Ramdev Mukherjee	Barng		-
06	"	Mr. Arjun Sarker	cont.L		-
07	"	Mr. Sujit Das	Cont.L		-
08	"	Mr. Nilanjan Chatterjee	Cont.L		-
09	"	Mr. Malin Ghosh	Shipy		-
10	"	Mr. Sandhan Choud	Mainit		-
11	"	Mr. Rajender Bandyop	Barng		-
12	02/02/24	Mr. Biswajit Bose	yard		W2 A
13	"	Mr. Milan Ghosh	PLC		-
14	"	Mr. Malay Samanta	finif		-
15	"	Mr. S. Saha	mainit		-
16	"	Mr. Amit K. Hazra	finif		-
17	"	Mr. Montu Bandyopkar	Cont		-
18	"	Mr. Sh. Bahadur	cont.L		-
19	"	Mr. Malin Ghosh	Shipy		-
20	"	Mr. Saswata Roy	Barng		slpt B
21	"	Mr. Sujit Paul	Cont.L		-
22	"	Mr. Sumath Mukherjee	Finif		-
23	"	Mr. Malay K. Das	Barng		-
24	"	Mr. Ramdev Ghosh	security		-
25	"	Mr. S. A. Bandyop	Mainit		-
26	"	Mr. Lankar Roy	Cont.L		-
27	"	Mr. Rajender Bandyop			-
28	"	Mr. Anup Das	Mainit		sn C
29	"	Mr. Ashish Ghosh	Cont		-
30	03/02/24	Mr. Anup Das	Mainit		slpt A
31	"	Mr. B. Bandyop	yard		-
32	"	Mr. Sanjay Mondal	Finif		-
33	"	Mr. Sandhan Chatterjee	Barng		-
34	"	Mr. Bidhan Bandyop	Cont.L		-

Treatment Given

P-500-t. famocid
Applied Valini spray
Applied ceph-delta R/E
Ibuprofen-2, Pantoc-2
Mist-Graninidre
Aspirin Dose, Applied Valini spray, Ibuprofen-1
Applied Ace-Praxifen gel, Ibuprofen-1, Pantoc-1
Diger-1
Mist-Graninidre, Pantoc-1
Lecep-1
Aspirin-2, Mucosol-1
Applied Valini spray
P-500-t. famocid
Ibuprofen-1, Pantoc-1
Applied Valini spray
Applied ceph-delta R/E
Ibuprofen-1, Pantoc-1, Applied Valini spray
Colmar-1, Pantoc-1
Pantoc-1, Mucosol
Applied Valini spray
Applied Valini spray, Ibuprofen-1, Pantoc-1
Applied ceph-D E/D
P-500-1, Feorid-1
P-500-1, Feorid-1, Nise-1/2
Diger-2
Mist-Graninidre, Feorid-1
Sib Bandyop - 50-1
Ibuprofen-1, famocid-1, Applied Valini spray
Lecep-2
Ibuprofen-1, Feorid-1
Applied Valini spray
Applied Valini spray, Ibuprofen-1, Feorid-1
Diger-1
Feorid-1, Colmar-1, Mist-Graninidre

MARCH-24

GRAPHITE INDIA
HEALTH
DAILY PATIENT

Sl. No.	Date	Name of the Patient	Dept.	Desig.	E. B. No.
01	01/03/24	Hr. Biswanath Bose	Yard		MD A
02	"	" Sanjay Banerjee	Consult		
03	"	" Hazibul Ghalib	cast		
04	"	" L.D. Mukherjee	Brng		
05	"	" Tapan Bauri	cast		
06	"	" B. Chand	ment		
07	"	" K.K. Hazra	Sur.Mn		
08	"	" Taraknath Banerjee	PLA		
09	"	" Nibaran Roy	Brng		
10	"	" Siddha K Roy	Officr		
11	"	" Lalita SK	Cast		
12	"	" Jagan Bauri	Boalmy.		8rr B.
13	"	" Sanjib Mukherji	PLC		
14	"	" Ramu Ghosh	WLD		
15	"	" Susil Saha (RSP)	Slipmy		
16	"	" Lakman Ghosh	cont. ^(Ghosh Ent-3)		
17	"	" Tanvir Hossain	EXT		
18	"	" Alak Halder	cont. ^{hr}		
19	"	" Swapn Bha	Yard		
20	"	" Atan Das	cont. ^{hr}		
21	"	" Kulkarni Rm	Brng		spc e
22	"	" A.L. Das	Fr-ty		
23	01/03/24	" Jagan Bauri	Brng		MD A
24	"	" Fakh Ray	Brng		
25	"	" Souvik Mukherjee	Officr		
26	"	" Sanjay Ghosh	Brng		
27	"	" Anwar K	Consult		
28	"	" Siddha Banerjee	Officr		
29	"	" Sanjay Banerjee	Officr		
30	"	" Lalman Ghosh	cast		
31	"	" Sanjay Kundu	consult		Pr B
32	"	" Raju Prasad	Brng		
33	"	" Tapan Mandal	cont. ^{hr}		
34	"	" D. K. Mukherji	Yard		

LIMITED, Durgapur-11
/ FIRST AID CENTRE
ATTENDANCE REGISTER

 GID-TRG-F023
 RO WEF 20.02.2014

Treatment Given
Applied disinfectant
Dressed.
Applied Cyclo-DE/lot B/E. Atlay-1, Famid-1, P-500-1
metronidazole
zeread MR-1 Famid-1. Applied disinfectant
P-500-1 Famid-1
Dressed
Atlay, Durgapur-1, Famid-1
colpex applied
Metronid-2
Applied disinfectant
P-500-1.
Famid-1.
Atlay-1. Applied Histacalamin lotion.
Dressed. Inj. P.P. 1mg. D.Symc 2ml, Ibuprofen-1. Famid-1.
Inj. P.P. 1mg D.Symc 2ml. In Dressed.
Famid-1. Mr. Ghosh 1m.
P-500-1.
P-700-1.
Applied disinfectant
Digoxin 1mg - 1 Dose
Doxid-1, Anil-1, P-500-1, Digoxin 1mg - 2 Dose
P-500-1, Famid-1
Zeread MR-1
Metronid 2, Famid 2
P-500-1
Dressed
overst. Famid-1
Atlay-1
Atlay-1, Durgapur-1 Famid-1
P-500-1.
Dressed-1
P-500-1.
Famid-1.

Annexure-8

Health Checkup Photographs



Training Photographs



Annexure-9

Parking Photographs



Annexure-10

ESIC Challan Oct23 to Mar24

ChallanDoubleVerification - Profile 1 - Microsoft Edge
https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWE&challanNo=JUGm1R...

ESIC
Employees' State Insurance Corporation

Insurance

User Login: T4000071000000910 Monday, May 20, 2024 12:00:35 PM

Monthly Contribution > Online Challan Status

Transaction Details	
Transaction status:	Transaction Completed Successfully
Employer's Code No:	T4000071000000010
Employer's Name:	GRAPHITE INDIA LTD.
Challan Period:	Oct-2023
Challan Number :	07423192910257
Challan Created Date	11-10-2023 00:52:21
Challan Submitted Date	14-11-2023 09:19:19
Amount Paid:	4870.00
Transaction Number:	311140844170

Print Close

Desktop2023 12:50 20-05-2024

ChallanDoubleVerification - Profile 1 - Microsoft Edge
https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWE&challanNo=JUGm1R...

ESIC
Employees' State Insurance Corporation

Insurance

User Login: T4000071000000910 Monday, May 20, 2024 12:52:37 PM

Monthly Contribution > Online Challan Status


Transaction Details	
Transaction status:	Transaction Completed Successfully
Employer's Code No:	T4000071000000010
Employer's Name:	GRAPHITE INDIA LTD.
Challan Period:	Nov-2023
Challan Number :	07423143475076
Challan Created Date	13-10-2023 17:02:03
Challan Submitted Date	14-10-2023 14:38:42
Amount Paid:	5777.00
Transaction Number:	312145202405

Print Close

Desktop2023 12:52 20-05-2024

ChallanDoubleVerification - Profile 1 - Microsoft Edge

https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWE&challanNo=JUGm1R...

 **ESIC**
Employees' State Insurance Corporation

Insurance

User Login: T1000071000000910 Monday, May 20, 2024 12:55:43 PM

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


Transaction Details * Required Fields

Transaction status:	Transaction Completed Successfully
Employer's Code No:	74000071000000010
Employer's Name:	GRAPHITE INDIA LTD
Challan Period:	Dec-2023
Challan Number :	07424103002443
Challan Created Date	16-01-2024 09:59:35
Challan Submitted Date	16-01-2024 14:29:35
Amount Paid:	5845.00
Transaction Number:	401155412216

Desktop2023 12:55
20-05-2024

ChallanDoubleVerification - Profile 1 - Microsoft Edge

https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWE&challanNo=JUGm1R...

 **ESIC**
Employees' State Insurance Corporation

Insurance

User Login: T1000071000000910 Monday, May 20, 2024 12:56:21 PM

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


Transaction Details * Required Fields

Transaction status:	Transaction Completed Successfully
Employer's Code No:	74000071000000010
Employer's Name:	GRAPHITE INDIA LTD
Challan Period:	Jan-2024
Challan Number :	07424105323251
Challan Created Date	14-02-2024 16:51:10
Challan Submitted Date	14-02-2024 16:51:36
Amount Paid:	6457.00
Transaction Number:	402149231008

Desktop2023 12:56
20-05-2024

ChallanDoubleVerification - Profile 1 - Microsoft Edge

https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWed&challanNo=JUGm1R...

 **ESIC**
Employees' State Insurance Corporation

Insurance

User Login: T\000071000000910 Monday, May 20, 2024 12:58:37 PM


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

Transaction Details		* Required Fields
Transaction status:	Transaction Completed Successfully	
Employer's Code No:	7400007100000010	
Employer's Name:	GRAPHITE INDIA LTD	
Challan Period:	Feb-2024	
Challan Number :	07424110340051	
Challan Created Date	14-03-2024 09:35:20	
Challan Submitted Date	14-03-2024 09:37:49	
Amount Paid:	8134.00	
Transaction Number:	PT403148200001	

Desktop2023 12:58 20-05-2024

ChallanDoubleVerification - Profile 1 - Microsoft Edge

https://www.esic.in/ESICInsurance1/RevenueOne/Monthly%20Contribution/ChallanDoubleVerification.aspx?userPk=Kpy+rX%2f2PW5duh3eHQY9k77uVDgaYWed&challanNo=JUGm1R...

 **ESIC**
Employees' State Insurance Corporation

Insurance

User Login: T\000071000000910 Monday, May 20, 2024 1:04:10 PM

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

Transaction Details		* Required Fields
Transaction status:	Transaction Completed Successfully	
Employer's Code No:	7400007100000010	
Employer's Name:	GRAPHITE INDIA LTD	
Challan Period:	Mar-2024	
Challan Number :	07424113829315	
Challan Created Date	12-04-2024 14:50:24	
Challan Submitted Date	12-04-2024 14:54:17	
Amount Paid:	8643.00	
Transaction Number:	404120330000	

Desktop2023 1:04 20-05-2024

Annexure-11

20 KLD Kitchen Waste Water STP



Annexure-12

Need based Activity – Health Checkup Camp for the community (Period-Feb 2024)





TAX INVOICE

ORIGINAL

Branch Address:

MECAS, Ananda Nagar, ITI Ambagan SBI Bank (Ground Floor), Muchipara, Durgapur.

E-mail : acct@mecas.in

0343-2999330 / 8001816000 / 8001819000

GST No : 19ABOFM3765F1ZT

SAC Codé- 999316 (Medical Laboratory and Diagnostic-Imaging Services)

Invoice No	MD/02/23-24/18
Date	29.02.2024

BILL TO :

Graphite India Limited
Sagarbhanga Colony, Paschim Bardhaman,
Durgapur-713212, West Bengal

Place of Service - Durgapur
State Code- 19

GST No : 19AAACC0457C1Z4

TEST DESCRIPTION	UOM	QTY	UNIT COST	AMOUNT
1. Blood Test- TC, DC, ESR, Hb%, Cholesterol, Blood Sugar (Fasting/Random), Sputum for AFB	No	78	720	56160
2. Pulmonary Function Test				
3. Audiometry				
4. E.C.G				
5. Chest X-Ray				
Total Invoice amount in words			Taxable Value	56160
Rupees: Sixty Six Thousand Two Hundred Sixty Eight Only			Add: CGST - 9%	5054
			Add: SGST - 9%	5054
			Invoice Value	66268

BANK DETAILS

Bank Name : **HDFC Bank Ltd.**

Account Holder Name : **MECAS**

Bank Account Number : **50200051927090**

Bank Branch IFSC : **HDFC0009518**

Payment shall be released within 15 days after submission the final report.

For **MECAS**

AUTHORISED SIGNATORY



NABIN SINGHA

Prop. - Abir Singha

PAINTING CONTRACTOR & GENERAL ORDER SUPPLIERS

SAGARBHANGA GHOSH MARKET, DURGAPUR-713211

PAN : CSYPS4116F

Vendor No.: 214989

Contact : 6294714849 / 9378163322

E-mail : rupsudishadecor@gmail.com

Ref. No. NS/GIL/M-33/23-24.....

Date09.02.2024..

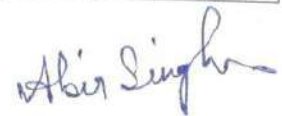
MEASUREMENT

Personnel Dept.

Job done 20.01.24

To
Graphite India Ltd
Durgapur - 713211

Sl. No.	Department Location & Date	Item Description	Size	No.	Qty.	Rate @ Rs.	Amount Rs. P.
1	Personnel	Providing of latex vinyl printing	8X4	1	32 sft.	66/-sft	2112.00
(Rupees two thousand one hundred twelve only)						Total	2112.00



Abir Singha

BILL / CHALLAN

Date 21/3/24

SUBHAM ELECTRICALS & SOUND

Sagarbhanga, Goal Park, Graphite More, Near Youth Club, Durgapur-713211
Dial :9333748607

Name.....

Address.....

PARTICULARS	Qty.	Rate	Amount Rs.
① LED METAL - 05 NOS			1500.00
② TUBES - 05 NOS			
SUROJIT MAJI			
TOTAL			1500.00
Delivery Date... 07-02-24		Advance	
Returned Date... 08-02-24		Balance	

SUBHAM ELECTRICALS & SOUND
Sagarbhanga, Durgapur-11

Customer's Signature

For **Subham Electricals & Sound**

বিঃ দ্রঃ- প্রাকৃতিক দুর্ঘটনা বা কোন কারণে বিদ্যুৎ না থাকলে কোং দায়ী থাকিবে না।

E&O.E

Surojit Maji



Abhinandan Caterer

Zonal Centre, Sagarbhanga, Durgapur - 713211
Mob. : 9832193119



Ref. No. AC/GIL/B-5

Date 20/2/2024

BILL

Sub : Health Check-up Camp

To
Graphite India Ltd.
Sagarbhanga,
Durgapur - 11

Sl. No.	Description	Qty.	Rate	Amount (Rs.)
01	Lodge Rent	-	-	10000.00
02	Washing Charge	-	-	1000.00
03	Water Charge	-	-	300.00
04	Electricity Charges	15 unit	10/-Unit	150.00
05	Chairs	60 nos	7/-no	420.00
06	Table	08 nos.	20/-no	160.00
07	Bed	03 nos	100/-no	300.00
08	Tea	200 cups	5/-cup	1000.00
08	Water 20 ltr jar	04 no	50/-no	200.00
09	Dustbin charge	-	-	200.00
10	Chair Cover	12 nos.	15/-no	180.00
11	Table Cover	06 nos.	20/-no.	120.00
			Total	14030.00

(Rupees fourteen thousand thirty only)

For Abhinandan Caterer
ABHINANDAN CATERER
Pinku Ghosh
Signature

Sl no.	Bill description	Amount
1	Health Checkup of 78 persons-By M/s MECAS	66268
2	Latex vinyle printing	2112
3	Lighting	1500
4	Catarer	14030
	Total	83910

Need based Activity – Scholarship for the community School (Period-Mar 2024)

No.- H5-117
INSTITUTION CODE (H.S.)-204582

SCHOOL UDISE CODE-19260902906

SAGARBHANGA HINDI HIGH SCHOOL (H.S.)
(Estd. 1974)

RECOGNISED BY WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION (UN-AIDED)
P.O.- DURGAPUR - 713211, DIST.- PASCHIM BURDWAN (W.B.)
E-mail ID : sagarbhangaahindihighschooldgp@gmail.com, M : 9932405115

From the desk of :-
Secretary / T.I.C

Ref. No. T.I.C./06/2024 Date 08.03.2024

To,
The Executive Vice President,
Graphite India Limited,
Durgapur-713211.

[Sub: -Request for granting MONETARY AID CUM FREE STUDENTSHIP for the benefit of poor students of our school]

Sir,

With due respect I(Namrata Sinha) Teacher-In-Charge of SAGARBHANGA HINDI HIGH SCHOOL (H.S) would like to request you to kindly lend us your helping hand towards the development of the poor students within the locality of our school campus. We have been catering world class education to the students past 50 years but their parents are unable to continue with their education due to lack of funds. We are also working for the betterment of the girl students and are trying our level best to help them achieve their dreams.


Thus it's our earnest request in front of you to kindly come forward along with us in this noble cause and help us create a better future of a new developing nation. I hope to get a positive response from your end.

The details of our banking transactions are mentioned below for your kind perusal: -

ACCOUNT NO-50100709155013
IFSC NO-HDFC0005318
NAME: -NAMRATA SINHA

Teacher-In-Charge
Sagarbhanga Hindi High School (H.S.)
SAGARBHANGA HOUSING COLONY

THANKING YOU IN ANTICIPATION


Teacher-In-Charge
SAGARBHANGA HINDI HIGH SCHOOL (H.S.)
SAGARBHANGA HOUSING COLONY
DURGAPUR-713211

NAMRATA SINHA
TEACHER-IN CHARGE
SAGARBHANGA HINDI HIGH SCHOOL (H.S)
CONTACT NO-9932405115

No.- H5-117
INSTITUTION CODE (H.S.)-204582

SCHOOL UDISE CODE-19260902906

SAGARBHANGA HINDI HIGH SCHOOL (H.S.)

(Estd. 1974)

RECOGNISED BY WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION (UN-AIDED)

P.O.- DURGAPUR - 713211, DIST.- PASCHIM BURDWAN (W.B.)

E-mail ID : sagarbhangaahindihighschoolgdp@gmail.com, M : 9932405115

From the desk of :-
Secretary / T.I.C



Ref. No. T. I. C. / 04 / 2024

Date 08.03.2024

The details of the students eligible for Scholarship are mentioned herewith for your kind perusal.....

NAME	CLASS	YEARLY FEE
MUSKAN KUMARI	VI	2930
SAFQAT ALIYA	VII	3260
MERY PRASAD	VII	3260
BABY DOM	VII	3260
KHUSHBU NISHA	VIII	3260
PAYEL RAJBANSHI	VIII	3260
NANDANI MISHRA	VIII	3260
NUSRAT KHATOON	VIII	3260
ANJALI CHOUDHURY	IX	4030
NIKY YADAV	IX	4030
SAJIYA KHATOON	IX	4030
SURAJ SHAW	VI	2930
WASID ANSARI	VII	3260
TOTAL AMOUNT		44030

Mishra
Teacher in Charge
08/03/2024
Sagarbhanga Hindi High School (H.S.)
SAGARBHANGA HOUSING COLONY
DURGAPUR-713211

Sl no.	Bill description	Amount
1	Scholarship Amount Paid	44030
	Total	44030

Need based Activity – Plantation & fencing for the community School (Period-Mar 2024)



Before Fencing & Plantation



After Fencing & Plantation



INVOICE COPY



GULSON CONSTRUCTION



CIVIL, MECHANICAL, REFRACTORY, GOODS SUPPLIER,
TRANSPORTING

Vendor Code : 202346 PAN : AHTPM8966B Contact No : 7872177568	GSTIN : 19AHTPM8966B1ZM Add. : V-1 ZONAL CENTER Durgapur -713211	Mode of Payment NEFT / RTGS / IMPS / CHEQUES
---------------------------------------------------------------------	------------------------------------------------------------------------	-------------------------------------------------

Service Recipient : Graphite India Ltd. Add : Sagarbhanga ,Durgapur - 713211 State: West Bengal State Code : 19 PAN/IT No. : AAACC0457C GSTIN : 19AAACC0457C1Z4	INVOICE NO : 51/2023-24 Dated : 12.3.2024	PO No : DOM/8600002012 PO Date :11.3.2024
SERVICE SHEET ENTRY :		
Company's Bank name IFSC Code : Account No. :	CENTRAL BANK OF INDIA CBIN0280120 3849764142	

Sl No	Description of Goods	SAC Code	Qunt.	Unit	Rate	Total
1	SER-CIV WORK AT SCHOOL AND POLICE PHARI					
1.1	TOWARDS THE CHARGES FOR FENCIG WORK AT BENGALI SCHOOL	9983	1.000	AU	25,000.00	25,000.00
1.2	TOWARDS THE CHARGES FOR ROOF WORK AT POLICE PHARI	9983	1.000	AU	61,000.00	61,000.00
1.3	TOWARDS THE CHARGES FOR MISC CIVIL WORK AT POLICE PHARI	9983	1.000	AU	35,000.00	35,000.00

J. Somal
18/03/24
S. Saha
14.03.24

	TOTAL VALUE		1,21,000.00
Description	CGST	9%	10,890.00
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.	SGST	9%	10,890.00
	TOTAL AMOUNT		1,42,780.00

Quality of Job's	Department Head
Excellent / Good / Average / Below Average	
Completion of Job's	
1. Within the given delivery date . 2. After 7 days . 3. After 15 days . 4. More than 15 day's .	

Signature of Customer's	FOR GULSON CONSTRUCTION
	GULSON CONSTRU
	<i>Med. Tahira</i>
	Proprietor

Site cleared and no environmental damaged is created.	SIGNATURE
-------------------------------------------------------	-----------

Item No. 1.1 Expenses considered

MALAKAR ENTERPRISE

CIVIL MECHANICAL CONTRACTOR & GENERAL ORDER SUPPLIER

SAC - 9987, CODE - 214220

D-14/S, SAGARBHANGA COLONY, DURGAPUR-713211, BURDWAN

MEASUREMENT SHEET DURING THE MONTH, FEBRUARY-2024

Name of Contractor _____ BILL/RUNNING BILL NO. _____ DATE _____

INDENT NO. _____ DATE _____

DATE. PURCHASE ORDER NO. _____ DATE _____

PR No- 10264175

SL. NO.	DESCRIPTION OF JOBS	QTY.	RATE	AMOUNT	
				RS.	P.
1	DATE-02.02.24 FINISHING-2 1NO GATE LOCK FIX, AND PIPE WELD			2200 1500.00	00
2	DATE-02.02.24 RC DEPERMENT 1NO HEADER CUTTING 1NO STRUCTRUE CUTTING			2500 1500.00	0
3	DATE-03.02.24 RC FRONT AREA 1NO DRAIN COVER FEBRICATE			2500 2000.00	0
4	DATE-03.02.24 TUNNEL WALL SHEET POCKET CUTTING			6500 5000.00	00
5	DATE-08.01.24 RC 6INCH LINE C-CLAMP FEBRICATE AND FIX			2000 4000.00	00
6	DATE-08.02.24 RC BACK SIDE COOLING TOWER CUTTING			5500	00
7	DATE-08.02.234 RH-24 (3) DARIN COVER FEBRICATE 380MM-1MTR -10 PC	10	1300/-	7000 2000.00 13000	00
8	DATE-08.02.24 RC FRONT AREA RAIL REPAIR			1550	00
9	DATE-09.02.24 RH-24(3) BACK SIDE 2INCH AND 3INCH PIPE CUTTING AND SHIFTING RH-24(2) BACK SIDE			2500.00 3000 35000.00	00
10	DATE-13-02.24-20.02.24 SAGERBHANGA HIGH SCHOOL RAILING PURPASE FLAT CUTTING 90MTR, FLAT WITH METIRIAL WITH NET SHIFTING PLANT TO HIGH SCHOOL, 90MTR FLAT WELDING AND 45 MTR NET FIX AND 1NO GATE FEBRICATE AND FIX (NET AND FEW METIRIAL PURCHASE)			42500.00 50000 35000/-	00
11	DATE-14.02.24 4INCH PIPE 1FEET-15 PC CUTTING 2 SIDE ROD WELDING AND MIDDLE POSTION 4PC PER PIPE ROD WELDING	15	650/-	5500.00 9250	00
TOTAL				98500	00

76,050.00

Signature of the Contractor Kakali Malakar

Amount Payable-

Completion Certificate _____

Page N.O-

Authorized Signature _____

C

Item No. 10 Expenses considered

NABIN SINGHA

Prop. - Abir Singha

PAINTING CONTRACTOR & GENERAL ORDER SUPPLIERS

SAGARBHANGA GHOSH MARKET, DURGAPUR-713211

PAN : CSYPS4116F

Vendor No.: 214989

Contact : 6294714849 / 9378163322

E-mail : rupsudishadecor@gmail.com

Ref. No. BILL Date 21-03-24

To
Graphite India Ltd.
Durgapur - (PED)

Bill for. Vinyl printing, sticking on ACP sheet
& M. S Flat ~~work~~ Welding Frame sign board.

Sign board.	2'x12'2" x 2502	500.
Frame	2'x12'2" x 1202	240
		<u>740/-</u>

yours faithfully
Nabin Singha

Sd/-
31-03-24



G. S. CONSTRUCTION Co.

ENGINEERS AND CONTRACTORS

Specialised In :
 STRUCTURAL, FABRICATION, ERECTION, MECHANICAL, REFRACTORY, SHEETING, PAINTING, GLASS FITTING WORKS,
 SHUT DOWN, MAINTENANCE, CIVIL WORKS INCLUDING REPAIRS & REVAMPING WORKS AND MANPOWER SUPPLIERS

MEASUREMENT SHEET

MONTH - March, 24 Date :

PR NO	DATE	SAC CODE	VENDOR CODE
	30.03.24	9987	202082

JOB DESCRIPTION: TREE SUPPLY

SL NO	DESCRIPTION	Qty	Rate/	Amount(Rs)
1	TREE SUPPLY INSIDE THE PLANT AT <u>FENCING SAMARSHANNA HIGH School</u>	1	AU	RS 14330.00
ALONG WITH INVOICE BILL				
TOTAL (Rs)				RS 14330.00

S. Gupta
30.03.24

SECTION HEAD

DEPT. HEAD

VP(OPERATIONS)

N. Ghosh
FOR GSC CONSTRUCTION CO

Site Office :
 GRAPHITE INDIA LIMITED
 Durgapur- 713211
 West Bengal, India

M : 09333503590
 M : 09933503590
 E.mail : gsec.dgp@gmail.com

Regd. Office :
 Road-98, Nisser Avenue
 Khairasole, Durgapur-713212
 West Bengal, India

Sl no.	Bill description	Amount
1	Fencing	25000
2	Fabrication of Fencing area	35000
3	Sign Board	740
4	Tree plantation	14330
	Total	75070

No.	Proposed need based Activities under CER	Actual Expenses in 23-24 in Rs (Lac)
1	Development of nearby roads of the unit.	-
2	Organize health camps in nearby areas	0.84
3	To develop Health Care facility in nearby areas	-
4	To develop educational facility in nearby areas	-
5	To Initiate scholarship in nearby schools	0.44
6	Plantation programs in Nearby Areas	0.75
7	Develop nearby Puja area shed or any other requirements arising in nearby areas	11.12
	Total	13.15

Annexure - 13



GRAPHITE INDIA LIMITED

REGD. & H.Q. : 91, CHOWRINGHEE ROAD, KOLKATA - 700 016, W.B., INDIA
PHONE : 91 33 4962 9600, 2226 0756 / 4942 / 4943 / 5547 / 2354, 2217 1145 / 1146
FAX : 91 33 2249 6420, E-mail : gi@graphiteindia.com
WEBSITE : www.graphiteindia.com, CIN : L10101WB1974PL2094092

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
Sagarbhanga, Durgapur - 713 211,
West Bengal,
India



operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Supply of Graphite and Carbon Products.

Certificate Registration No. **44 104 14390299**
Audit Report No. **2.5-2844/2000**

Valid from **05.09.2023**
Valid until **27.08.2026**
Initial certification **28.08.2014**



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
Sagarbhanga, Durgapur - 713 211,
West Bengal,
India



operates a management system in accordance with the requirements of ISO 45001 : 2018 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

Manufacture and Dispatch of Graphite and Carbon Products.

Certificate Registration No. 44 126 23394093
Audit Report No. 2.5-11325/2023

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,

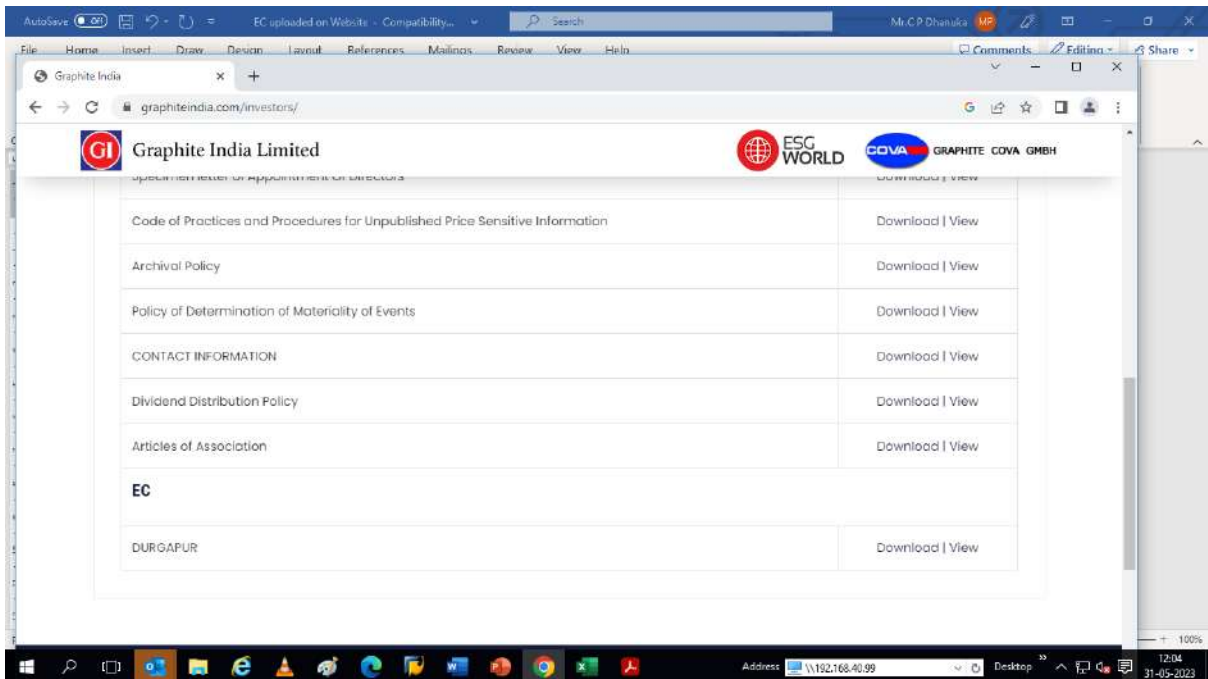
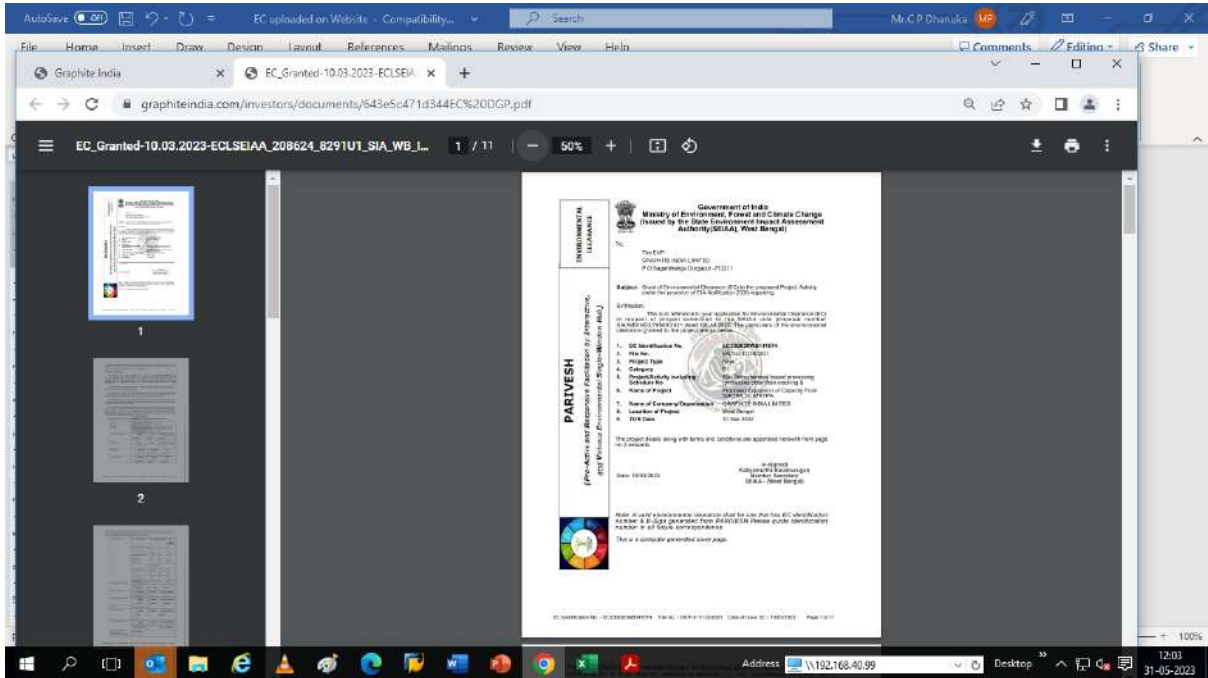
Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in



Annexure-15

<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



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 Bardhaman & Asim Kumar Bardhan, S/o Late Anil Kumar Bardhan, resident at- Tejganj School Para, P.O.- Natunganj, within P.S.- Burdwan, Dist- Purba Bardhaman, 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 Bardhaman, 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 under Charge

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

20855-3481254

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 Bardhaman, 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

13697-3481052

নোটিস

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

মেসার্স গ্রাফাইট ইন্ডিয়া লিমিটেড,
সাগরভাঙ্গা,
দুর্গাপুর-৭১৩২১১

Annexure - 16



GRAPHITE INDIA LIMITED

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

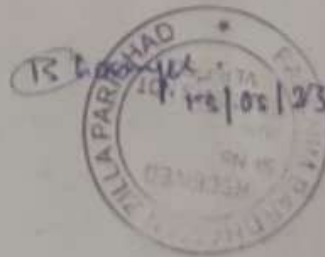
Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

Enclosed - As above





GRAPHITE INDIA LIMITED

DURGAPUR 713211, DIST- BURDWAN
E-Mail : general_dgp@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

Sub: Submission of Environmental Clearance (EC) copy to Head of local bodies / relevant
Government offices.

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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

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



GRAPHITE INDIA LIMITED

DURGAPUR 713211, DIST- BURDWAN
E-Mail : general_dgp@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

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

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_dgp@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. 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.

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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 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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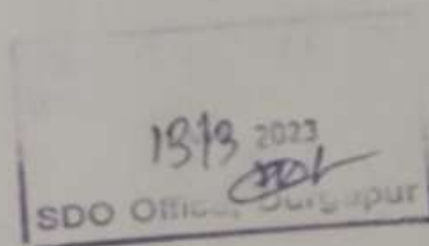
Thanking you,

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

Sub: Submission of Environmental Clearance (EC) copy to Head of local bodies / relevant Government offices.

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Kindly acknowledge and oblige.

Thanking you,

Yours Faithfully,

For Graphite India Limited.

Ranadeep Chakraborty
Vice President (Works)

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

Enclosed - As above



GRAPHITE INDIA LIMITED

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

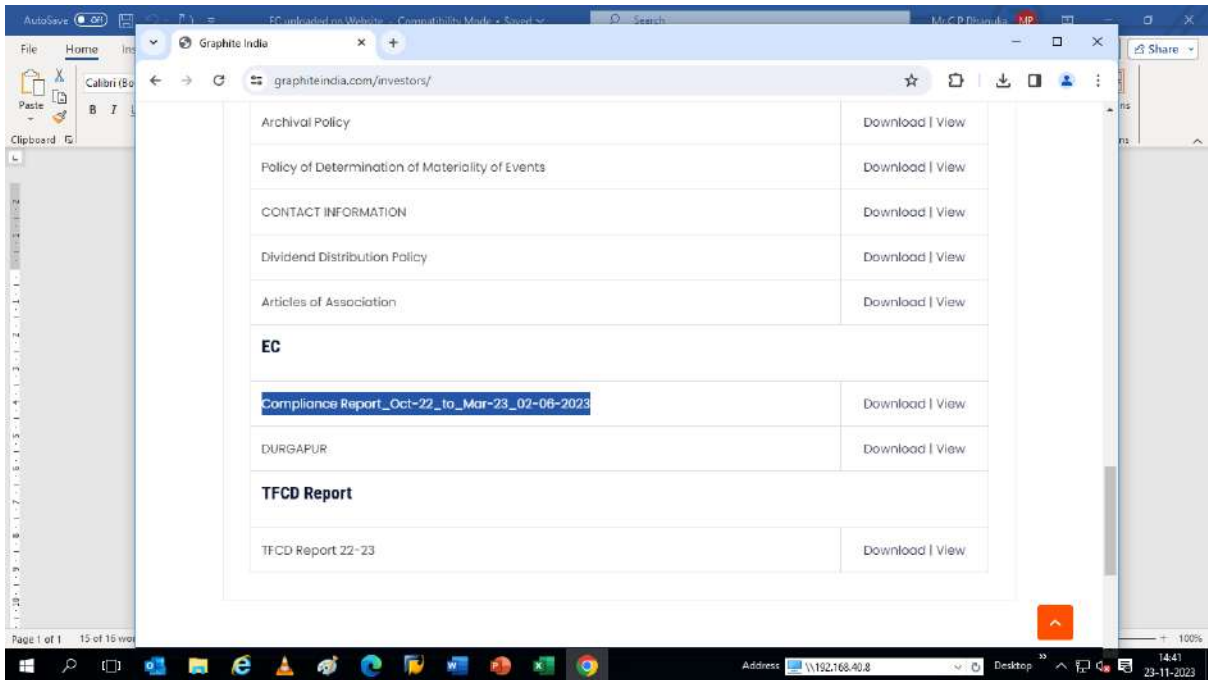
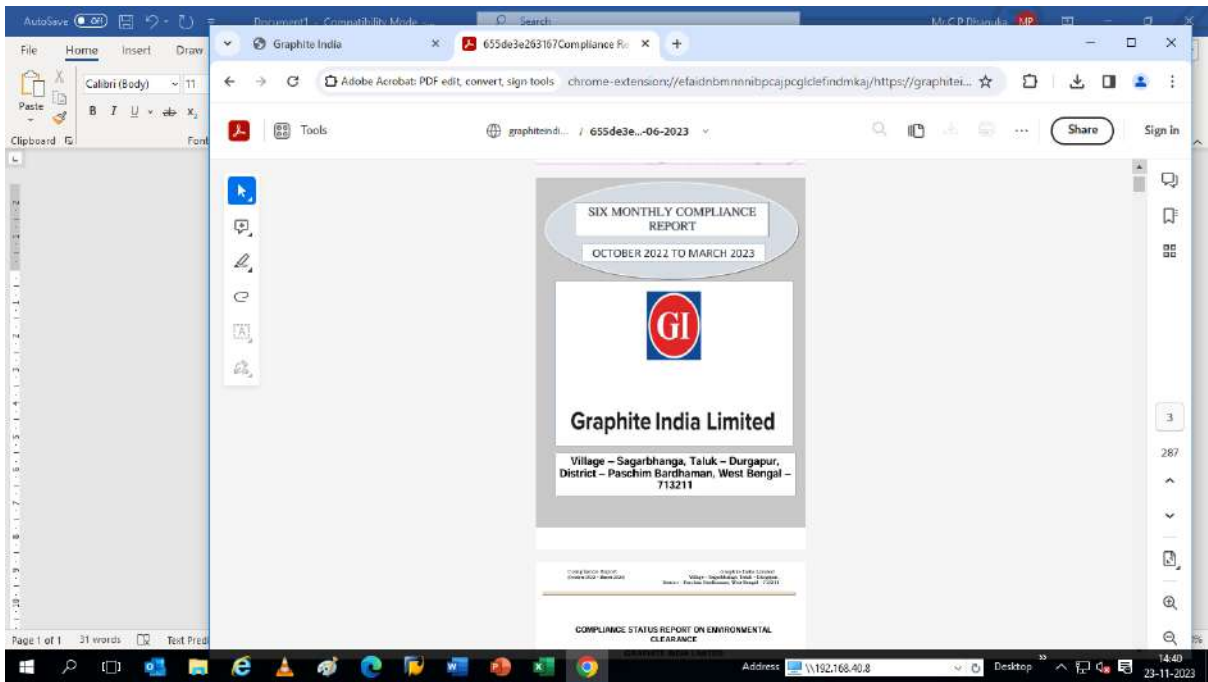
C-108

Received
13/03/23
Durgapur Municipal Corporation

Annexure-17

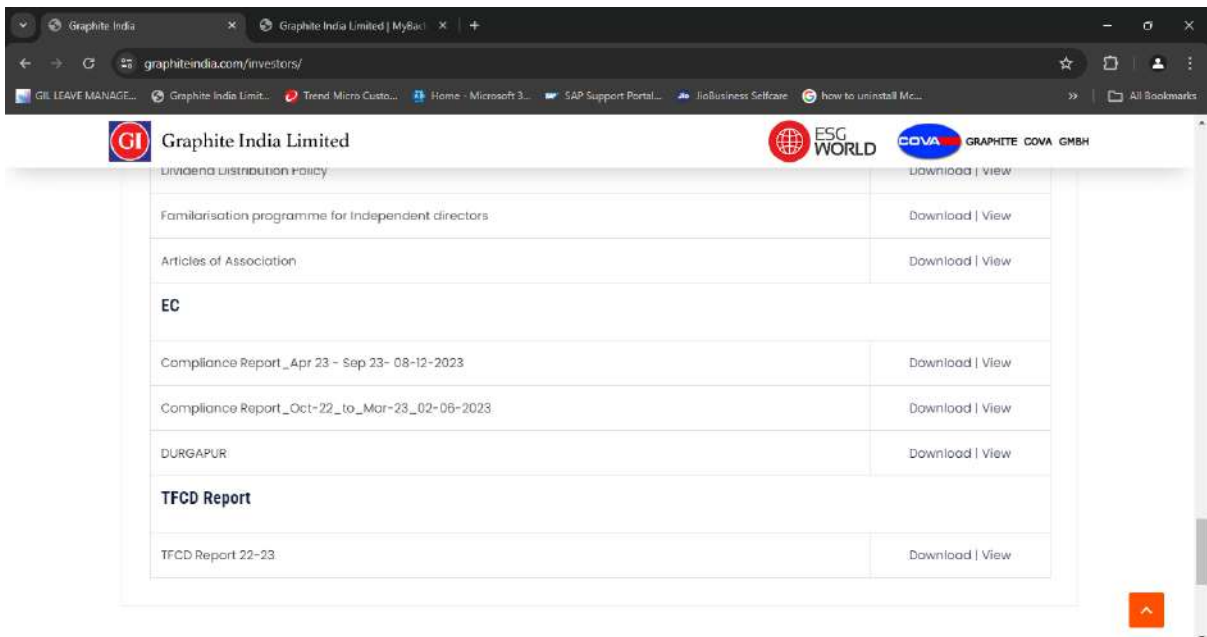
https://graphiteindia.com/investors/documents/655de3e263167Compliance%20Report_Oct-22_to_Mar-23_02-06-2023.pdf

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 below **EC** heading



<https://graphiteindia.com/investors/documents/664af396e5ff1Six%20Monthly%20Compliance%20Report-Apr-23%20-%20Sep-23.pdf>

Link of Six monthly Environmental compliance Status Report (for the period Apr-23 to Sep-23) on our Website permanently uploaded on Website of www.graphiteindia.com under Investor relation page below **EC heading**





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

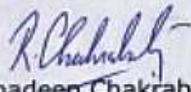
Dear Sir,

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)

End: Environmental Statement

LED Light Photographs



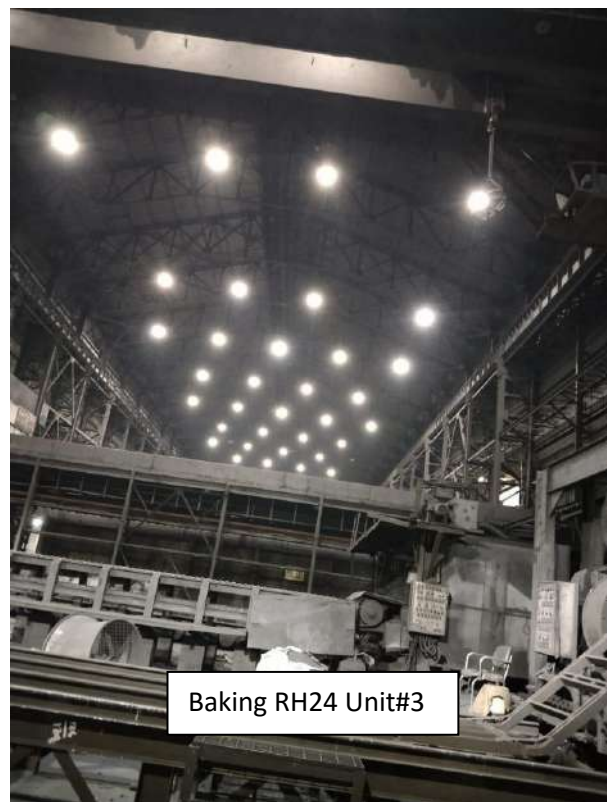
Finishing & Shipping Unit#4



LWG Unit#3



PI Unit#4



Baking RH24 Unit#3