

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion-Matunga Scheme Rd. No.8,
Opp. Sion Circle, Sion (East),
Mumbai-400 022.

SRO Nashik/Ind/Red/L.S.I/01055195

Date: ~~27/Jan/2012~~

Consent No. BO/JD(APC)/EIC No. NK-10246-11/R/CC-CA-225 Date: 31/12/2012

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

Graphite India Ltd
Plot No. 88, MIDC Indl area,
Satpur, Nashik

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 31.12.2014.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Baked & Reabaled Electrodes	2400	MT/M
2	Graphite Fines/ Carbon ash	732.5	MT/M
3	Electrodes	1250	MT/M
4	Carbosil	50	MT/M
5	Met Coke Fines	650	MT/M
6	Captive Power Plant	7.65 MW	
7	Graphite Tubes & Moulds	67.34	MT/M
8	Graphite Flexi Rolls	37.5	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 60.0 m³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 27.0 m³.
- (iii) **Trade Effluent Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	5.5 to 9.0
2	Oil & Grease	Not to exceed	10 mg/l
3	Suspended Solids	Not to exceed	100 mg/l.
4	BOD 3 Days 27 degree C	Not to exceed	100 mg/l.
5	COD	Not to exceed	250 mg/l.
6	TDS	Not to exceed	2100 mg/l.
7	Sulphates	Not to exceed	1000 mg/l.
8	Chlorides	Not to exceed	600 mg/l

(iv) **Trade Effluent Disposal:** The treated effluent shall be recycled to the maximum extent and remaining used on Land for Gardening. There shall not be any discharge outside the factory premises

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

- | | | | | |
|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27o C. | Not to exceed | 100 | mg/l. |

(vi) **Sewage Effluent Disposal:** The treated effluent shall be recycled to the maximum extent and remaining used on Land for Gardening. There shall not be any discharge outside the factory premises

(vii) **Non-Hazardous Solid Wastes:**

Sr. N.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Ash	3.10	MT/A		Landfill on Own Land

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

- | | | | | |
|-------|---|-----|--------|-----|
| (i) | Domestic purpose | ... | 73.00 | CMD |
| (ii) | Water gets Polluted & Pollutants are Biodegradable | ... | 26.00 | CMD |
| (iii) | Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 | CMD |
| (iv) | Industrial Cooling, spraying in mine pits or boiler feed | ... | 560.00 | CMD |

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.

5. CONDITIONS UNDER AIR ACT :

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. Control Equipment:

- I. Adequate fume extraction system followed by dust collector of sufficient capacity shall be provided at all dust generating locations and operated properly.
- II. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

- | | | | | |
|-------|-----------------|---------------|------|--------------------|
| (i) | SPM/TPM | Not to exceed | 150 | mg/Nm ³ |
| (ii) | Acid Mist | Not to exceed | 35 | mg/Nm ³ |
| (iii) | SO ₂ | Not to exceed | 6700 | Kg/day |

6. Conditions for D.G. Set

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
- g. D.G. Set shall be operated only in case of power failure
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

7. Standards for Stack Emissions:

- (i) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	85.00	KL/D
2	LDO	1.10	KL/D
3	LPG	50.00	MT/day

- (ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Thermo pck 10	30.00
2	Graphite DG Set (100KVA)	15.00
3	Finishinf Machine Elctrode Dust Colletocr	20.00
4	RHRB Fee Stack	30.00
5	Tube Plant Baking Fce	51.00
6	PMT-5,6	25.00
7	Tibe Plant TP-02	21.00
8	Fume Extractor Mixer- 01	10.00
9	Cooler- 01 Fume Extractor	10.00
10	Tube Plant Milling Dust Collector	10.00

11	RH -24 Rebaking Stack	45.00
12	PMT-3,4	25.00
13	TP-02of New P I	31.00
14	Lab Chimney	20.00
15	HGG of New P I	31.00
16	Thermo Pack - 1,2	22.00
17	Baking RC Fce 6-10	30.00
18	New PMTof New P I	25.00
19	Erich Mixer Chimney	15.00
20	Cooler- 02 Fume Extractor	10.00
21	Flexi Plant Dust Collector	15.00
22	Alpine Mill Dust Collector	15.00
23	Baking Vacuum Pump 4-5	8.00
24	PMT-1,2	25.00
25	Raymond mill dust collector(not in Use)	15.00
26	Fume Extractor Mixer- 02	10.00
27	Thermo Pack- 3,4,5	22.00
28	New PMTof New P I	25.00
29	Extrusion Plant Dust Collector	15.00
30	Finishing Nipple Dust Collector	20.00
31	Raymond mill dust collector	15.00
32	HCG	25.00
33	Pitch and Scrap dust Collector	15.00
34	Stock Cleaning m/c Dust Collector	10.00
35	HGG4	25.00
36	CPP 2.5 MW Engine	64.00
37	Baking Milling Dust Collector	25.00
38	BOM- 80 Dust Collector	10.00
39	Baking RC Fce 1-5	30.00
40	Graphite Plant Dust Collector	20.00
41	Mould Plant ADust Collector	20.00
42	Penovate Crushing D/C	25.00

(iii) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

(iv) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(vi) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality Regularly.

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No	Type Of Waste	Quantit	UOM	Disposal
1	34.3 Chemical sludge from waste water treatment	600.00	MT	Land Fill CHWTSDF
2	5.2 Wastes/residue containing oil	2000.00	MT	Auth Dealer
3	1.3 Oily sludge emulsion	1500.00	No.	Auth Dealer
4	33.3 Discarded containers / barrels / liners	240.00	MT	Auth Dealer
5	15.2 Discarded asbestos	1000.00	MT	CHWTSDF
6	34.3 Chemical sludge from waste water treatment	500.00	MT	CHWTSDF
7	5.2 Wastes/residue containing oil	7000.00	MT	Incinerated furance
8	1.3 Oily sludge emulsion	150.00	No.	Incinerated furance
9	33.3 Discarded containers / barrels / liners	240.00	MT	CHWTSDF

(ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.

- a. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.


9. Industry shall comply with following general conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.

- viii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- x. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

10. This is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 23rd January, 2012.

11. The Capital investment of the industry is Rs. 192.94 crore.



(Milind Mhaiskar, IAS)
Member Secretary

To,
Graphite India Ltd
Plot No. 88, MIDC Indl area, Satpur, Nashik

Copy to:

- RO- Nashik /SRO-Nashik-they are directed to submit the performance report along with the monitoring results within one month period.
- CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	1157677	019862	25 Oct 2011	HDFC Bank
2	30000	019899	07 Nov 2011	HDFC Bank
3	100	019898	07 Nov 2011	HDFC Bank
4	67663	216091	25 Nov 2011	HDFC Bank

Consent Fees received as per revised consent fee GR of Env Deptt, GoM, dated 25.8.2011.