

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Formate I.0/ BO/CAC-Cell/EIC No CH-1746-15/CAC- 419
Date- ~~10/08/2015~~
08/01/2016

To,
M/s. Bhatadi Open Cast Mines (Expansion),
P.O.- Bhatadi, Dist.- Chandrapur-442404 (Maharashtra).
Sub Area Manager- Bhatadi Sub Area.

Subject: Consent to 1st Operate for expansion & amalgamation of existing consent
Ref : 1. Minutes of CAC meeting held on 27.08.2015

Your Application: CE1501000114 & CO1505000270

Dated: 16.12.2014 & 06.04.2015.

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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is
considered and the consent is hereby granted subject to the following terms and
conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Consent to Operate is granted for period upto 31.03.2016 or up to validity of mine lease period whichever is earlier.
2. The capital investment of expansion unit is Rs. 106.21 Crs & capital investment of existing unit is Rs. 75.73/- Crs. The total capital investment of the industry is Rs. 181.94/- Crs. (As per C. A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

| Sr. No. | Product / By-Product Name | Maximum Quantity in MT/A |
|---------|--|--------------------------|
| 1. | Coal mining on lease area of 847.37 Ha | 0.975 MTPA |

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

| Sr. no. | Description | Permitted quantity of discharge (CMD) | Standards to be achieved | Disposal |
|---------|---|---------------------------------------|--------------------------|------------------------------------|
| 1. | Trade effluent (including mine water discharge) | 9315 | As per Schedule -I | Spraying mine pits & fire fighting |
| 2. | Domestic effluent (Sewage) | 55 | As per Schedule -I | On land for gardening |

5. Conditions under Air (P&CP) Act, 1981 for air emissions:

| Sr. no. | Description of stack / source | Number of Stack | Standards to be achieved |
|---------|-------------------------------|-----------------|--------------------------|
| 1. | Nil | | |

6. **Conditions about Non Hazardous Wastes:**

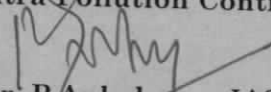
| Sr. no. | Type Of Waste | Quantity & UoM | Treatment | Disposal |
|---------|-------------------------|----------------|-----------|---|
| 1 | Over Burden-External | 2.0 M.M3 | N.A | Stored in External OB Dump & Back Filled Areas. Subsequently covered with Plantation. |
| | Over Burden-Back Filled | 0.4 M.M3 | | |

7. **Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:**

| Sr. No. | Type Of Waste | Category | Quantity | UOM | Treatment | Disposal |
|---------|---|----------|------------|-----------------|-----------|---|
| 1 | Used Oil | 5.1 | 40 | Kl/Yr | | CPCB/SPCB authorized reprocessor/recycler |
| 2 | Waste & Residue Oil Contaminated Waste | 5.2 | 900 280 | No/Y & Kg/Yr | | CHWTSDF |
| 3 | ETP Sludge | 34.3 | 18 | MT/Yr | | CHWTSDF |

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. The applicant shall comply with the conditions of Environmental Clearance accorded by MoEF, GOI vide No. J-11015/151/2014-IA-II (M), dated 19.03.2015.
10. This consent is issued with overriding effect to earlier consent granted vide No. BO/JD(APC)/EIC No. CH- 0597-11/R/CC-301, dtd 10.04.2014
11. Industry shall provide STP within 3 months period.
12. Industry shall comply with the effluent disposal standards strictly as the mine being in the proximity of river Erai.
13. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P Anbalagan, IAS)
Member Secretary

Received Consent fee of -

| Sr. No. | Amount(Rs.) | DD. No. | Date | Drawn On |
|---------|-------------|---------|------------|----------------|
| 1. | 1,80,000/- | 036379 | 04.12.2014 | UCO Bank |
| 2. | 100/- | 008863 | 15.12.2014 | Bank of India |
| 3. | 4,10,000/- | 789549 | 20.03.2015 | Allahabad Bank |
| 4. | 100/- | 0009352 | 05.03.2015 | SBI Bank |
| 5. | 94,840/- | 532746 | 15.09.2015 | UCO Bank |

Copy to:

1. Regional Officer - Chandrapur and Sub - Regional Officer - Chandrapur MPCB, Chandrapur. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have proposed to provide the Effluent Treatment Plant (ETP) with the design capacity not mentioned.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

| Sr No. | Parameters | Standards prescribed by Board (If any) |
|--------|------------------------|--|
| 01 | pH | 5.5 to 9.0 |
| 02 | Oil & Grease | 20 |
| 03 | BOD (3 days 27oC) | 100 |
| 04 | Total Dissolved Solids | 2100 |
| 05 | Phenolics (C6H5OH) | 1.00 |
| 06 | Suspended Solids | 100 |
| 07 | COD | 250 |
| 08 | Chloride | 600 |
| 09 | Sulphate | 1000 |

C) The treated effluent shall be used for spraying mine pits to the maximum extent & excess shall be discharged into local nalla only after achieving above standards. The project authorities shall take proactive initiatives for use of this excess water for agricultural purposes in the vicinity of mine.

2) A.] As per your consent application, you have proposed the sewage treatment system with the design not mentioned.

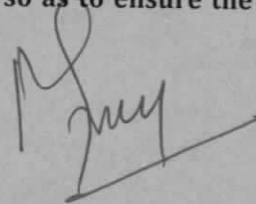
B.] The applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act 1986 and Rules made there under from time to time, whichever is stringent.

- 1) Suspended Solids. Not to exceed 50 mg/1.
- 2) BOD 3 days 27oC. Not to exceed 30 mg/1.
- 3) COD. Not to exceed 100 mg/1.

C.] The treated sewage shall be disposed on land for gardening/irrigation

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

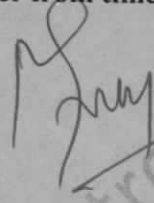
4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.



5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

| Sr. no. | Purpose for water consumed | Water consumption quantity (CMD) |
|---------|--|----------------------------------|
| 1. | Industrial Cooling, spraying in mine pits or boiler feed | |
| 2. | Domestic purpose | 55 |
| 3. | Processing whereby water gets polluted & pollutants are easily biodegradable | 4800 |
| 4. | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | N.A |

6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) to observe the following fuel pattern-

| Sr. No. | Stack Attached To | APC System | Height in Mtrs. | Type of Fuel | Quantity & UoM | S % | SO ₂ Kg/Day |
|---------|-------------------|------------|-----------------|--------------|----------------|-----|------------------------|
| 1 | NA | | | | | | |

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

| | | |
|--------------------|---------------|--------------------------|
| Particulate matter | Not to exceed | 150 mg/Nm ³ . |
|--------------------|---------------|--------------------------|

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

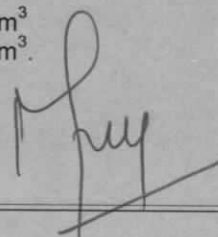
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

6. Control Equipments

- a) Coal handling plant shall be provided with dust collector & automatic water sprinkler
- b) Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
- c) Coal shall be properly covered during transportation.
- d) The applicant shall carry out tree plantation along road side, around dumps or compulsory afforestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width & height is developed between mining area/road and surrounding environment.
- e) Black topped metal roads shall be provided and well maintained to prevent dust formation.
- f) Overloading of dumpers shall be avoided to prevent spillages.
- g) Correct type & quantity of explosive shall be used to avoid excess dust formation & vibration in the surrounding area.
- h) The slope of the over burden shall have slope not more than 28 degree to the horizontal. The overburden shall be properly covered by vegetation for stabilization.
- i) Coal transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

7. Standards for Ambient Air Pollutants:

| | | | |
|-------|--|---------------|-----------------------|
| (i) | Suspended Particulate Matter [SPM] | Not to exceed | 500 ug/m ³ |
| (ii) | Respirable Particulate Matter [RSPM] [Size less than 10 micrometer] | Not to exceed | 250 ug/m ³ |
| (iii) | Sulphur Dioxide (SO ₂) | Not to exceed | 120 ug/m ³ |
| (iv) | Oxides of Nitrogen (NO _x) | Not to exceed | 120 ug/m ³ |



8. The applicant shall install minimum three continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter as per the condition of Environmental clearance to be obtained. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

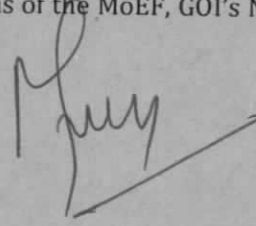
9. The applicant shall take adequate measures for control of noise levels from its own sources as follows:

| Sr. No | Location | Permissible Norms [in dB (a)] | Desired minimum thickness of green belt (m) |
|--------|-----------------------|-------------------------------|---|
| 1 | Along Road side | 65 (Commercial Area) | 20 |
| 2 | In colonies | 55 (Residential Area) | 20 |
| 3 | Near Opencast Mines | 75 (Industrial Area) | 10 (*40) |
| 4 | Near CHPs | 75 | 30 |
| 5 | Near Shaft | 75 | 20 |
| 6 | Near Mine exhaust fan | 75 | >50 |

*The Opencast Mine needs to be surrounded by a green belt of sufficient width as per the guidelines of Design Institute Ltd. [A subsidiary of Coal India Ltd.] if the residential complexes are very close

10. Other conditions:

- (i) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess standards laid down, such information shall be forthwith reported to Board, concerned Police station, office of Directorate of Health services, Dept. of explosives, Inspectorate of Factories & Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped
- (ii) If Coal Washeries are installed, then follow the conditions of the MoEF, GOI's Notification No Q15017/13/9 CPW, dtd 27.01.1999 strictly.



Schedule-III
Details of Bank Guarantees

| Sr. No. | Consent (C to E/O/R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|---------|--------------------------------------|-------------------|-------------------|--|-------------------|---------------|
| 1 | C to O (Existing to be extended) | 10/- Lakhs | 15 Days | Towards completion of work of pollution control system | 31.03.2016 | 31.07.2016 |
| 2 | C to O | 5/- Lakhs | 15 Days | O & M of pollution control systems | 31.03.2016 | 31.07.2016 |
| 3 | C to O | 10/- Lakhs | 15 Days | Provide STP | Three months | 31.07.2016 |

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 6) 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 8) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity.**
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate 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.
- 16) 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) 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.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- e) 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.
- f) D.G. Set shall be operated only in case of power failure.
- g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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 75dB(A) during day time and 70dB(A) during night time. Day time is reckoned in between 6 am and 10 pm and night time is reckoned between 10 pm and 6 am
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) 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 of solid waste.
- 22) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The project authorities shall obtain consent for their railway siding operation.
- 28) The project authorities shall submit an action plan for using closed coal conveyor belt system in place of truck transportation, wherever the coal transportation distance is less than 3 Kms initially, within 3 months.
- 29) This consent is valid along with the Environmental Clearance granted to the mine.
- 30) The applicant shall install continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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