

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No:- BO/JD(APC)/EIC No: CH-1676-14/R/CC-9252 Date: 07/10/2014

To,
M/S. B.S.Ispat Ltd,
(Marki Mangli Coal Mine Project),
Village: Marki Buzurg, Pandharkavada,
Ganeshpur & Pardi, Tal: Zari Zamni, Dist - Yavatmal, Maharashtra.

Subject: Consent to Renewal- RED category.

Ref: 1. Earlier Consent granted vide no. BO/JD(APC)/EIC No. CH-1185-13/R/CC-9140, dtd: 29/10/2013.
2. Minutes of CC-meeting held on, dt: 24/09/2014.

Your application No: CR1407000340, Dated: 01/04/2014.

For: Consent to Renewal
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:

- The consent is granted for a period from 31/03/2014 to 31/03/2016 or up to validity of mine lease period whichever is earlier.
- The proposed and/or actual capital investment of the industry is Rs. 28.43 Crs.
- The Consent is valid for the activity of mining over mining lease area of 731.42 Hectares.

Sr. No.	Product / By-Product Name	Maximum Quantity in MTA
	Coal	0.30 Million ton per annum

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	100	As per Schedule -I	Recycle/Land
2.	Domestic effluent	9.6	As per Schedule -I	land/Recycle

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.	D.G.Set (100 KVA)	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
The waste i.e. Over burden shall be disposed for by means of backfilling				

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

Sr. No.	Type Of Waste	Category	Quantity	Treatment	Disposal
1	Used / Spent Oil	5.1	20 Ltrs/M	...	CPCB authorized reprocessor

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. This consent is issued as per office note approved by the Member Secretary of the Board dated: 24/09/2014.

For and on behalf of the
Maharashtra Pollution Control Board

(P.K.Mirashe)

Assistant Secretary (Technical)

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1.	15700/-	001399	28/03/2014	IDBI

Copy to:

1. Regional Officer, MPCB Chandrapur & Sub-Regional Officer - MPCB, Chandrapur – They are directed to forfeit BG of Rs. 2.5 /-Lakhs form existing BG of Rs. 5.0 Lakhs & ensure the compliance of consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

- 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	100.00
2.	Domestic purpose	12.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic

- 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.

Maharashtra Pollution Control Board

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Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided 6-Nos of sediment tanks for the mine discharge treatment Capacity of 427 CMD.
B] The Applicant shall operate the effluent treatment facility 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)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	30
04	Total Dissolved Solids	2100
05	Phenolics (C6H5OH)	1.0
06	Suspended Solids	100
07	COD	250
08	Chloride	600
09	Sulphate	1000
10	Nitrate Nitrogen	10

C) The treated effluent shall be used for spraying mine pits to the maximum possible extent and 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 septic tank & soak pit for the domestic effluent- 8 CMD.

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 | 100 | mg/l. |
| (2) | BOD 3 days 27oC. | Not to exceed | 100 | mg/l. |

C] The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically.

D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

- 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.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to install/ provided the Air pollution control (APC) system and also proposed to erect / erected following stack (s) and 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	D.G.Set (100 KVA)	Stack	20	HSD	240 Ltr/D	2.4	4.8

- (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) Standards for Ambient Air Pollutants:

- (i) Suspended Particulate Matter [SPM] Not to exceed 500 ug/m³
(ii) Respirable Particulate Matter [RSPM] Not to exceed 250 ug/m³
[Size less than 10 micrometer]
(iii) Sulphur Dioxide (SO₂) Not to exceed 120 ug/m³
(iv) Oxides of Nitrogen (NOx) Not to exceed 120 ug/m³.

(B) Control Equipment:

- (i) Coal handling plant will be provided with Dust Collector and Automatic Water Sprinkler.
(ii) Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
(iii) Coal shall be properly covered during transportation.
(iv) The applicant shall carry out tree plantation along road side, around dumps or Compulsory a forestation 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 and height is developed between mining area/road and surrounding environment.
(v) Black topped metal led roads shall be provided and well maintained to prevent dust formation.
(vi) Overloading of dumpers shall be avoided to prevent spillages.
(vii) Correct type and quantity of explosive shall be used to avoid excess dust formation and vibration in the surrounding area.
(viii) The slope of the over burden shall have slope but not more than 28 degree to the horizontal. The overburden shall be properly covered by vegetation for Stabilization.
(ix) Coal transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

- (II) The applicant shall provide minimum three ambient air quality monitoring stations within mining area which should be monitored for SPM, RSPM, SO₂, NOx, HC, CO etc. The Annual Arithmetic Mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval shall conform to the National Ambient Air Quality Standards prescribed under Air (Prevention and Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986. The records of results of continuous monitoring done shall be made available for inspection to the officers of the Board.

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- (III) 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
1	Along road	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 Open Cast 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)

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



Schedule-III
Details of Bank Guarantees

B.G Details:

Sr. No.	Consent (C to R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	Renewal consent	(Remaining Rs. 2.5 Lakhs to be extended & Top up of Rs. 5.0 Lakhs) Total Rs. 7.5 Lakhs	15 days	Operation and Maintenance of Pollution Control System so as to achieve the consented standards.	31/03/2016	30/07/2016

Maharashtra Pollution Control Board

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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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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
- 9) /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.
- 10) 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.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).**
- 13) 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.
- 14) 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.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) 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.
- 17) 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.

