

MAHARASHTRA POLLUTION CONTROL BOARD

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

Consent No: Format 1.0/BO/CAC-Cell/EIC No:-NG:- 11235-14/CAC/CC/CAC-12002

Date- 15/12/2014

To,
Vidarbha Industries Power Ltd.,
(2 x 300 MW)
Plot No. D-3, MIDC Butibori, Dist- Nagpur.

Subject: Renewal of Consent Operate with increase in Capital Investment under RED category.

Ref : 1. Earlier Consent granted vide Format 1.0/BO/CAC-Cell/EIC No:-NG-9331
13/21st CAC/CC/CAC - 2292, Dtd 11/03/2014.
2. Minutes of CAC meeting held on 28.11.2014

Your application: CR1407000324

Dated:24/07/2014.

For: Renewal of Consent Operate with increase in Capital Investment 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 01.09.2014 to 31.08.2015
- The actual capital investment of the industry is Rs.4033.90 Crs. (As per C.A. Certificate submitted by industry)

- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/A
1	Electricity Generation	600 MW (i.e. 2 x300 MW)

(Coal Based Thermal Power Plant)

- 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	7608.0	As per Schedule -I	Recycle/On land for gardening
2.	Domestic effluent	40	As per Schedule -I	On land for gardening

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	2	As per Schedule -II
2.	D G Set	3	As per Schedule -II

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6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity &UoM	Treatment	Disposal
1	Fly Ash	1 million ton per year	Shall be sent to Cement Manufacturer. Dispose as per Govt. of India Guidelines Notification vide no. SO 763 (E) dated 14.9.1999
2	Bottom Ash	0.26 million ton per year	Ash Pond System/Backfilling of mines/quarries, manufacturing building blocks, light weight aggregates, road sub-base etc

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	Chemical sludge from WWP	34.3	Irrespective quantity	Ton/d	—	CHWTSDF, Butibori.
2	Used / Spent Oil	5.1	10	KL/M	—	Sale authorized recycler/ processor
3	Waste oil	5.2	10 KL/M	KL/M	—	

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. Temporary permission for road transportation of coal is granted for maximum period of one year subject to obtaining permission from Re-constituted Expert Appraisal Committee (MoEF), on EIA of Thermal Power & Coal Mine project.
10. 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

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	8067910	011498	28.06.2014	Axis Bank Ltd.,
2	340160	011612	28.07.2014	Axis Bank Ltd.,

Copy to:

1. Regional Officer -Nagpur He is directed to forfeit BG of Rs 5/- Lakhs & Rs. 1/- Lakh as mentioned in Schedule-III
2. Sub-Regional Officer- II, MPCB, Nagpur. They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. 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 provided the Effluent Treatment Plant (ETP) with the design capacity of 1440 CMD.
- 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)
I.	Condenser cooling Water	Limiting Concentration in mg/l, except for pH
01	pH	Between 6.5 to 8.5
02	Temperature	Not to exceed 5°C. than that of intake water temp.
03	Free available chlorine	Not to exceed 0.5 mg/l
II.	Boiler Blow Down	
01	Suspended Solids	Not to exceed 100mg/l
02	Oil & Grease	Not to exceed 10mg/l
03	Copper (Total)	Not to exceed 1mg/l
04	Iron (Total)	Not to exceed 1mg/l
III.	Cooling Tower Blow Down	
1	Free available chlorine	Not to exceed 0.5mg/l
2	Zinc	Not to exceed 1mg/l
3	Chromium (Total)	Not to exceed 0.2mg/l
4	Phosphate	Not to exceed 5mg/l
IV	D.M. Plant Effluent	
1	pH	Between 5.5 to 9
2	Suspended Solids	Not to exceed 100mg/l
3	Oil & Grease	Not to exceed 10mg/l
4	BOD 3 days	Not to exceed 30mg/l
5	COD	Not to exceed 250mg/l
6	TDS	Not to exceed 2100mg/l

- C] The total treated effluent out of 7608 CMD, 7128 CMD shall be for ash handling, dust suppression etc., & remaining 480 CMD shall be used on land of 84 acres for gardening.

- 2) A] As per your consent application, you have provided the sewage treatment system.

- 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 27°C. Not to exceed 100 mg/l.

- C] The treated domestic effluent shall be used on land of 84 acres for gardening.

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water works 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	36528
2.	Domestic purpose	60
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	3408
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.

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Schedule-II

Terms & conditions for compliance of Air Pollution Control:

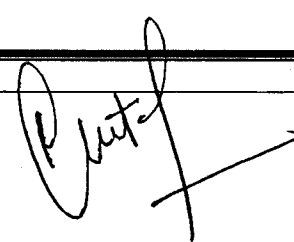
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & U _o M	S %	SO ₂ Kg/Day
1	Boiler	ESP	220	Coal LDO	10116 MT/Day 83.34 Kl/Day	0.5 %	101160
2	Boiler	ESP	220			1.8 %	300
3	DG set (3 Nos)	---	30 each	HSD	15 Kl/D	1%	

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.
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	50 mg/Nm ³ .
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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
6. The industry shall make necessary provision for installation of flue Gas De-Sulfurisation (FGD) system with 90% efficiency in its design and layout and sufficient floor space so that it can be installed in future, as & when directed by Board..
7. Dust collection system and automatic water sprinkler system provided to coal handling plant shall operate & maintain continuously.
8. Dust collector of sufficient capacity provided to coal crusher and any other sources of SPM shall be operated & maintained continuously.
9. There shall not be any fugitive emissions from coal storage yard



**Schedule-III
Details of Bank Guarantees**

BG History

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	Out of Rs. 25/- Lakhs Rs. 05/- Lakhs to be forfeited	C to O	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	To be forfeited	To be forfeited
2	C to O	Rs. 1/- Lakhs		Utilisation of flyash as per flyash notification 1999	To be forfeited	To be forfeited

Existing BG's

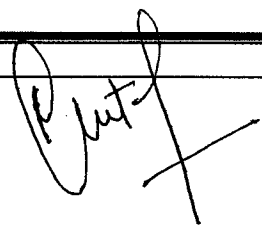
Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O (Existing to be extended)	5 Lakh	15 Days	For taking adequate care while transportation of coal by road from Butibori railway siding upto plant coal stockyard	One Year	31.12.2015

Code	Consent conditions	BG amount In Rs	Time for compliance	Validity
PNC1	Handling and disposal of flyash			
PNC1a	To switch over to 100% usable dry fly ash collection and storage	5 lakhs	30.10.2015	31.12.2015
PNC1b	Utilisation of flyash as per flyash notification 1999	1 lakh to be forfeited & top up 2/- Lakhs to be obtained	continuous	31.12.2015
PNC1c	Mitigation of seepages from wet fly ash conveying system	1 lakh	continuous	31.12.2015
PNC1d	Scientific operation of ash pond i.e. uniform distribution of wet slurry in the pond so as to have minimum depth of water	1 lakh	continuous	31.12.2015
PNC1e	Providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	1 lakh	continuous	31.12.2015
PNC1f	Scientific closure of abandoned ash pond with soil cover and plantation over it	5 lakhs	30.10.2015	31.12.2015
PAO1	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Out of 25/- Lakhs Rs. 05/- Lakhs to be forfeited & top up 10/- Lakhs to be	Monthly	31.12.2015

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		obtained to make total BG Rs. 30/- Lakhs		
PWO1	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	5 lakhs	Monthly	31.12.201 5

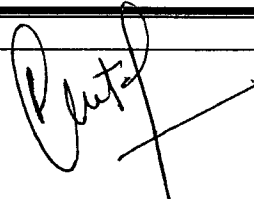
Maharashtra Pollution Control Board



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 send used oil to reprocess/re refiners authorized by MPCB & the Hazardous Waste to CHWTSDF Butibori Nagpur as per the provision contain in the HW(MH&TM) Rules 2008.
- 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 for proposed other units (in case of Consent to establish).
- 11) 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).
- 12) 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).
- 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.
 - 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
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) 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 Environmental Statement.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 28) The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No.J-13012/44/2009-IA.II(T), dtd.27.05.11, J-13011/49/2008-IA.II(T), dtd.27.02.09.

- 29) The industry shall comply with the notification issued by MoEF for utilization of fly ash from coal or lignite based thermal power plants dated 14th September, 1999 and as amended on 3rd November, 2009.
- 30) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India
- 31) The use of beneficiated coal as per GOI Notification shall be implemented. Transportation of coal shall be carried out through trucks by covering tarpolinproperly till the Rly facility from Walgaon to factory site is provided. Fly ash shall be by transported through bunker having closed system, coal carrying conveyor belt shall be covered from all side with provision of water springing/spraying system properly.
- 32) The applicant shall Operate online opacity meter/continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 33) The applicant shall Operate four continuous automatic ambient air and micrometeorological monitoring station at location indicated by MPC Board to be set up and operate at its own cost for measurement of SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.
- 34) They shall promote adoption of clean coal and clean power generation technologies.

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