

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-NG-9371-13/18th CAC/CC/CAC-473
Date- 16/01/2014

To,
M/s Ideal Energy Projects Ltd.,
Mouza-Kinhala Khursapar,
Tq. Umred Dist-Nagpur.

Subject: Renewal of Consent under RED category.

Ref : 1. Earlier Consent granted vide no. BO/JD(APC)/EIC No. NG-7752-12
/O/CC/CAC-2349 dtd. 18.03.2013.
3. Minutes of CAC meeting held on 06.01.2014

Your application: CR1307000197

Dated: 08/07/2013

For: Renewal of Consent.

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 is granted for a period from 01.09.2013 to 31.08.2014
2. The actual capital investment of the industry is Rs. 1432.90/- 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
1.	Electricity Generation	270 MW

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	5477.0	As per Schedule -I	reused for ash handling, cooling tower make up, dust suppression, fire services & gardening on 113.67 acres
2.	Domestic effluent	29	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.	Boiler	1	As per Schedule -II

6. Condition Under Non Hazardous Waste:

Sr. No.	Type Of Waste	Quantity & UOM	Treatment	Disposal
1	Fly Ash/Bottom Ash	1600 Ton/Day	--	Shall be Sent to cement Manufacturer. Dispose as per Govt. of India Guidelines Notification vide no.SO763(E) dated 14/09/1999

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used /Spent Oil	5.1	20	Kg.	--	Sale to Authorized recycler /reprocessor
2.	Waste Residue containing oil (Oil Filter)	5.2	40	Kg.		
3.	Chemical Sludge From WWP	34.3	2.8	Ton/D		CHWTSDF Butibori
4.	Used Batteries	--	Irrespective of any quantum	--	--	Sale to Authorized recycler /reprocessor

8. This 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 agencies.

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	28,65,800/-	676048	05/07/2013	UBI

Copy to:

Regional Officer - Nagpur. He is directed to return the existing BG of Rs. 5/- Lakhs against Installation of CAAQMS as the industry has installed the same as reported by SRO & BG of Rs. 5/- Lakhs against O & M Pollution Control System.

1. Sub-Regional Officer-Nagpur-II. 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 provided the Effluent Treatment Plant (ETP).
 B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
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 treated effluent shall be reused for ash handling, cooling tower make up, dust suppression, fire services & gardening on land of 113.67 acres.

- 2) A.] As per your consent application, you have proposed to provide 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 recycled / reused for ash handling, coal handling, dust suppression etc to the maximum extent and remaining shall be utilized for plantation / gardening on land of 113.67 acres.

Upto commissioning of the STP The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be recycled / reused for ash handling, coal handling, dust suppression etc to the maximum extent and remaining shall be utilized for plantation / gardening on land of 113.67 acres.

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	14976
2.	Domestic purpose	36
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	5477
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.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

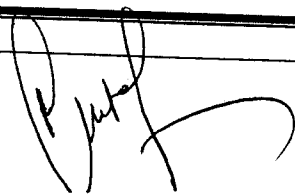
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern

Sr. No.	Stack Attached To	AOC System	Height in Mtrs.	Type of Fuel	Quant ity	UoM	S %	SO ₂ Kg/Da
1	Boiler	ESP	220	Coal	4050	TPD	0.5	40500

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

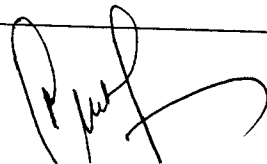
Particulate matter	Not to exceed	100 mg/Nm ³ .
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3. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)
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. 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
Bank Guarantees
Details of Bank Guarantees to be submitted as per New BG Regime for
Power Plants

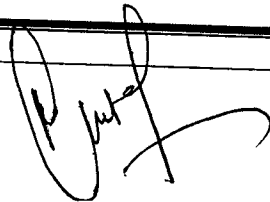
Sr. No.	BG Code	Amt of BG Imposed	Submissi on Period	Purpose of BG	Compliance Period	Validity Date
1	PNC1			Handling and disposal of flyash		
2	PNC1c	1 lakh	15 Days	Mitigation of seepages from wet fly ash conveying system	31.08.2014	31.12.2014
3	PNC1d	1 lakh	15 Days	Scientific operation of ash pond i.e. uniform distribution of wet slurry in the pond so as to have minimum depth of water	31.08.2014	31.12.2014
4	PNC1e	1 lakh	15 Days	Providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	31.08.2014	31.12.2014
5	PAOI	25 lakhs	15 Days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	31.08.2014	31.12.2014
6	PWOI	5 lakhs	15 Days	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	31.08.2014	31.12.2014
02	C to O (Existing BG)	5 lakh	Submitted	Installation of Sewage treatment plant(STP)	31.03.2014	02/04/2014



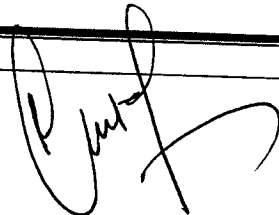
Schedule-IV

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 monthly/quarterly.
- 4) The industry should monitor stack emissions and ambient air quality monthly/quarterly.
- 5) 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.
- 6) 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.
- 7) 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 the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent regarding pollution levels.
- 8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant. OR
- 9) The industry shall maintain visit book for visiting MPCB officials and shall made available at the time of visit and ensure recording of remarks of the officer thereon alone with his counter signature.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 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 should comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous Wastes (M,H &TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day obligation toward pollution control and compliance of consent condition to be monitored/reviewed and to suggest further necessary improvement therein.
- 14) The ash content for coal used in thermal power plants shall not exceed 34%.
- 15) 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 down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 17) 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.



- 18) 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 55 dB(A) during day time and 45 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.
 - i) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.



- 29) The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No.J-13012/130/2007-IA.II(T), dtd.25.01.2008.
- 30) 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.
- 31) 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
- 32) The use of beneficiated coal as per GOI Notification shall be implemented. Transportation of coal shall be carried out through trucks by covering tarpolin properly 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.
- 33) 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.
- 34) The applicant shall Operate three 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.
- 35) They shall promote adoption of clean coal and clean power generation technology

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