

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-NK-19508-15/CAC/CAC- 1403 \\  
Date- 04/10/2015

To,  
**M/s RattanIndia Nashik Power Project.,**  
Formerly Known as  
**Nashik Thermal Power Project**  
[Project by M/s India bulls Reatach Limited,]  
Additional MIDC, Sinner SEZ,  
Taluka: Sinner, Distt: Nashik.

Subject: Renewal of consent under RED category.

Ref : 1. Earlier Consent granted vide no. BO/JD (APC)/ EIC No. NK-12666  
12/O/CC-338, dated 28.05.2015  
2. Minutes of CAC meeting held on 09.10.2015

Your application: CR1507000339

Dated: 03.07.2015

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 01.09.2015 to 31.08.2016.
2. The actual capital investment of the industry is Rs. 2882.40/- Crs. (As per C. A. Certificates submitted by industry)
3. The Consent is valid for the manufacture of –

Sr. No.	Product / By-Product Name	Maximum Quantity
1	Electricity Generation [Coal based]	540 MW (270 x 2)

#### 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	7421.0	As per Schedule –I	Recycle and reuse and on land.
2.	Domestic effluent	16	As per Schedule –I	on land.

#### 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.	Unit 1 & 2, ESP	1	As per schedule -II
2	DG set 3 (Unit#1, Unit#2 & TTP)	3	

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

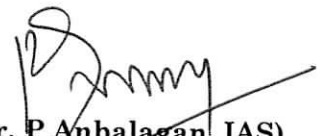
Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used/Spent oil	5.1	32	kg/day	Nil	Sale to authorized reprocessor / recycler .or at CHWTSDF.
2	Waste Containing oil	5.2	40	kg/day	Nil	CHWTSDF
3	Chemical sludge from ETP	34.4	400	kg/day	Nil	CHWTSDF
4	Used Batteries	Batteries (M&H) Rules 2001	10	Per year	Nil	To the authorized recycler

**7. Conditions under Non Hazardous and disposal of non hazardous waste:  
NATURE, QUANTITY AND METHOD OF DISPOSAL OF NON-HAZARDOUS SOLID WASTE.**

Sr.No	Type of Waste	Disposed Quantity	Disposal Method and its destination
1	Fly ash	58,608.0 MT/M	Sale to Cement and brick manufacturer.
2	Bottom Ash	14,652.0 MT/M	Stored in ash dyke & then given to Brick manufacturer.

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 authorities.
10. Industry shall obtain specific permission from Regional Officer, MPCB, Nashik before restarting the actual manufacturing activities.
11. The industry shall comply the conditions stipulated in the Environmental Clearance issued by MoEF vide no.J-13012/11/2008-1A-II(T) Dated 28.07.2010.

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	Rs. 57,64,900/-	000458	30.06.2015	Bank of India

Copy to:

1. **Regional Officer – Nashik.** He is directed to release existing BG's of Rs. 2/- - Lakhs obtained against submission of design details of APC as SRO reported compliance of the same.
2. **Sub-Regional Officer- Nashik , MPCB,Nashik .** 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.



aaahr P / to C n r i o r d

## 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 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)
	<b>I. Compulsory Parameters</b>	<b>Limiting Concentration in mg/l, except for pH</b>
01	pH	6.0-8.5
02	Oil & Grease	10
03	BOD (3 days 27oC )	100
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphates	1000
09	Free available chlorine	0.5
10	Copper(Total)	1.0
11	Iron(Total)	1.0
12	Zinc	1.0
13	Chromium (Total)	0.2
14	Phosphate	5.0

C] The treated effluent shall be recycled for the ash handling, coal handling, dust suppression etc. up to maximum extent and remaining used on land for gardening. In no case effluent shall find its way outside factory premises.

2) A] As per your consent application, you have provided the sewage treatment System with the design capacity of 5.0 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 50 mg/l.
- (2) BOD 3 days 27oC. Not to exceed 30 mg/l.
- (3) COD. Not to exceed 100 mg/l.

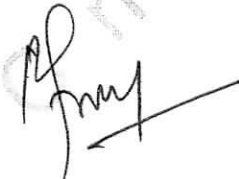
C] The treated domestic effluent shall be recycled for the cooling tower, for ash quenching, dust suppression etc. up to maximum extent and remaining used on land for gardening. In no case effluent shall find its way outside factory premises.

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	35,520.0
2.	Domestic purpose	20.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	6,816.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	00
5.	Gardening	00

- 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 and stipulated in the Environmental Clearance.



a a a h r P i t o

## Schedule-II

### Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system. Following stack (s) and fuel pattern Observed.

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub>
1	Boiler	ESP	275	Coal	198000 MT/M	0.35%	46200 Kg/day
2	Boiler						
3	D.G.Set (Unit#1) (1010 KVA)	Stack	30	Furnace Oil	760 KL/M	4.5%	2.27 Kg/day
4	D.G.Set (Unit#2) (750 KVA)		30	LDO	688 Kg/M.	1.8%	0.825 Kg/day
5	D.G.Set (TTP) (1010 KVA)		30				

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:**

SPM/TPM	Not to exceed	50 mg/Nm <sup>3</sup> .
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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.
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:**
- Electrostatic Precipitator of sufficient capacity provided to Boiler and any other sources of particulate matter shall be operate and maintain so as to ensure that TPM emission do not exceed 50 mg/Nm<sup>3</sup>
  - Dust collection system and automatic water sprinkler system provided to Coal Handling Plant shall be operate and maintain continuously.
  - Dust collector of sufficient capacity provided to coal crusher and any other sources of SPM shall operate and maintain continuously.
  - There shall not be any fugitive emission from coal storage yard.
  - The industry shall make necessary provisions for installing FGD with 90 % efficiency in its design and layout ad sufficient floor space so that it can be installed in future, as & when directed by Board.



### Schedule-III

Sr. No.	BG Code	Amt of BG Imposed	Submissi on Period	Purpose of BG	Compliance Period	Validity Date
	PNC1			<b>Handling and disposal of flyash</b>		
1	PNC1 a	5 lakhs	15 Days	To switch over to 100% usable dry fly ash collection and storage	Continuous	31.12.2016
2	PNC1 b	1 lakh	15 Days	Utilization of flyash as per flyash notification 1999	Continuous	31.12.2016
3	PNC1 c	1 lakh	15 Days	Mitigation of seepages from wet fly ash conveying system	Continuous	31.12.2016
4	PNC1 d	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	Continuous	31.12.2016
5	PNC1 e	1 lakh	15 Days	Providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	Continuous	31.12.2016
6	PNC1f	5 lakhs	15 Days	Scientific closure of abandoned ash pond with soil cover and plantation over it	Continuous	31.12.2016
7	PAO1	25 lakhs	15 Days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Continuous	31.12.2016
8	PWO1	5 lakhs	15 Days	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	Continuous	31.12.2016

All above extended BG's shall be submitted to Regional Officer, MPCB, Nashik within 15 days.





## 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 regarding pollution levels.
- 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) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 8) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 9) 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](http://www.mpcb.gov.in)).
- 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 Hazardous Wastes (M,H &TM) Rules, 2008 for the preceding year April to March in Form-IV by 30<sup>th</sup> June of every year.
- 11) 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.
- 12) 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.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) 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.
- 15) **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
- 16) The industry should not cause any nuisance in surrounding area.
- 17) 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.
- 18) The applicant shall maintain good housekeeping.
- 19) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31<sup>st</sup> March of the year and number of trees planted by September end.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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 downloaded from MPCB official site).
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dated. 16.11.2009 as amended.
- 26) The industry shall comply the conditions stipulated in the Environmental Clearance issued by MoEF vide no.J-13012/11/2008-1A-II(T) Dated 28.07.2010.
- 27) The industry shall comply with the notification issued by MoEF for utilization of fly ash from coal or lignite based thermal power plants dated 14<sup>th</sup> September, 1999 and as amended on 3<sup>rd</sup> November, 2009.
- 28) 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
- 29) **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 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 for period of 1 year as approved by MoEF vide letter dtd 25.08.2014.**
- 30) 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.

- 31) The applicant shall Operate the 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 SO<sub>2</sub>, NO<sub>x</sub> and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.
- 32) They shall promote adoption of clean coal and clean power generation technologies.
- 33) The coal handling system shall be covered with proper hooding and ventilation arrangements connected to dust suppress agent so as not to allow any fugitive emissions.
- 34) If due to any technological improvements or otherwise this Board is of opinion that all or any of the conditions referred above require variation (including the change of any control equipment either in whole or in part), this Board shall after giving the applicant an opportunity of being heard very all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions so varied.

**35) General guidelines for handling, storage & safety of Chlorine cylinders & drums.**

- a) Chlorine gas units and cylinders shall be housed in separate rooms, easily accessible, close to the point of application and convenient for truck loading and safe container handling
- b) The floor shall be flat and at least 150 mm above the surrounding ground and drainage shall be adequate. The height of the container room should be at least 4.0 m. Under no circumstances such units shall be housed in basement or below ground level since the chlorine gas is heavy and settles into depressions.
- c) The floor shall be flat and at least 150 mm above the surrounding ground and drainage shall be adequate. The height of the container room should be at least 4.0 m. Under no circumstances such units shall be housed in basement or below ground level since the chlorine gas is heavy and settles into depressions.
- d) The temperature in the installation room shall be within the range of +4 to + 40°C. The chlorine gas containers and chlorine gas pipes shall not be exposed to direct heat radiations and shall be protected from sun rays.
- e) Electrical installations inside the chlorine gas rooms shall be limited to the absolute minimum required. While laying electrical wiring and fixtures adequate safety precautions shall be observed during their installation of ensuring safe use of electricity.
- f) Chlorine gas containers shall not be bumped, dropped or rolled on the ground and no object shall be allowed to strike them with force.
- g) Cylinders shall be stored vertically so that a leaking container, if found, can be removed with the least possible handling of others.
- h) No other objects except chlorine gas storing containers shall be kept in the room.
- i) All operating and storing rooms for chlorine gas appliances and containers shall be fire proof.
- j) First aid box and eye wash fountain shall be provided outside chlorinator room.
- k) Water shall never be applied to the chlorine leak to stop it, as it will only make it worse.
- l) When a chlorine leak occurs, the ventilation system should be operated immediately before any person enters the chlorination room.
- m) In case of fire, the cylinders and drums containing chlorine shall be protected by spraying with water since the containers can burst at temperatures of over 70°C. Source of pressurized water shall be provided adjacent to the chlorination room.
- n) No direct flame should be applied to the chlorine cylinder when heating becomes necessary.

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