

MAHARASHTRA POLLUTION CONTROL BOARD

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RED/L.S.I (R48)

No:- Format1.0/CAC/UAN No.0000093173/CR - 2009000467

Date: 09/09/2020

To,
Rattanindia Power Ltd.,
Plot No.D-2 & D-2(Part), Additional Industrial Area
MIDC Nandgaonpeth, Amravati
Tal & Dist-Amravati.

Sub: Renewal of consent with increase in CI under Red category.

- Ref:**
1. Earlier consent granted by Board vide No. BO/CAC-Cell/EIC No.AM-6689-15/CAC-14013 dated 03.11.2015 valid up to 31.08.2015.
 2. The Minutes of Consent Appraisal Committee Meeting held on 14.08.2020.

Your application No.MPCB-CONSENT-0000093173 Dated 13.06.2020

For: grant of Consent to Operate 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 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 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 renewal is granted for a period up to 31/08/2021
2. The capital investment of the project is Rs.7587.05 Crs. (As per C.A Certificate submitted by industry Existing CI is-Rs 6882.28 Cr + Increase in C.I. - Rs. 704.77 Cr=Total CI- Rs. 7587.05 Cr.)
3. Consent is valid for the manufacture of:

Sr No	Product	Maximum Quantity	UOM
Products			
1	Electricity Generation (5 x 270 MW) (Phase-I)	1350	MW

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	24020	As per Schedule-I	Recycle/reused 100 % for Cooling tower, Dust suppression and Ash handling plant etc.
2.	Domestic effluent	470	As per Schedule-I	On land for gardening



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

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	01	Boiler No-1 and 2	01	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Fly Ash	239106	MT/M	Recycle	Shall be sent to Cement Manufacturing Plant, Brick Manufacturing Plant and dispose as per MoEF-CC,GoI Notification No.SO-763(E) dated 14.09.1999 and as amended time to time thereof
2	Bottom Ash	59776	MT/M	Recycle	As above

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used /spent oil	100	Kg/Day	Recycle	send to authorised Re-procesors or Recycler
2	5.2 Wastes/residue containing oil	100	Kg/Day	Incineration	CHWTSDF
3	34.4 Chemical sludge, oil and grease skimming residue	1000	Kg/Day	Secured Land Filling	CHWTSDF

- The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- The applicant shall comply with the conditions of the Environmental Clearance granted by MoEFCC,GoI vide letter No. J-13011/49/2008-IA.II (T) dated 27.02.2009 and amended vide letter No. J-13011/49/2008-IA.II (T) dated 15.07.2010
- Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .
- The Energy source for lighting purpose shall preferably be LED based
- The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
- Industry shall promote adoption of clean coal (with ash content less than 34%) and clean power generation technologies and comply with notifications issued by MoEF for utilization of fly ash from coal or lignite based thermal power plant dated 14th September, 1999 and as amended on 3rd November, 2009 and amendment dtd 2nd January 2014.



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- 15 The applicant shall comply with the recommendations of the task force for implementation of CREP recommendation for Thermal Power Plants
- 16 The industry shall comply the standards stipulated by the Ministry of Environment, Forest and Climate Change vide Notification dtd 07.12.2015. PP shall Operate and Maintain the APCS so as to achieve the emission Standards.
- 17 The sulphur and ash content in the coal to be used in the project shall not exceed 0.5% and 34% respectively. PP shall not use high ash content coal (i.e more than 34%).
- 18 Industry shall comply MoEF office memorandum dated 26.08.2015 by protocol for sampling, analysis of coal and reporting of compliance in respect of implementation of the Gazette Notification on use & supply of raw or blended of beneficiated coal with ash content not exceeding 34% on quaterly average basis.
- 19 PP shall comply with the Fly Ash Notification 2016 and amendments thereof to achieve 100% utilization of Fly Ash. PP shall dispose legacy pond ash.
- 20 PP shall comply with the MoEF & CC amendment notification no. S.O.1561 (E) dtd. 21.05.2020.
- 21 PP shall reduce specific water consumption m3/MWh as per MoEF&CC notification dtd. 7th Dec, 2015 and as amended 28th June, 2018.
- 22 PP shall submit detail water budget with proposal for recycle of treated effluent to the maximum extent to reduce fresh water consumption, for betterment of water economy within period of 3 months with bar chart.
- 23 The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent.



For and on behalf of the
Maharashtra Pollution Control Board.

(E. Ravendiran IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	15174100.00	MPCB-DR-0716	06/07/2020	RTGS
2	1409540.00	MPCB-DR-1363	12/08/2020	NEFT

Copy to:

1. Regional Officer, MPCB, Amravati and Sub-Regional Officer, MPCB, Amravati I
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CAC desk-for record and website updating purpose.



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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 m³/day.
- 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	Limiting concentration not to exceed in mg/l, except for pH
For Condenser Cooling Water		
(1)	pH	Between 6.5 to 8.5
(2)	Temperature	Not to exceed 5°C than that of intake water temp.
(3)	Free available chlorine	Not to exceed 0.5 mg/l
(4)	TDS	Not to exceed 2100 mg/l
Boiler Blow Down		
(1)	Suspended Solids	Not to exceed 100 mg/l
(2)	Oil & Grease	Not to exceed 10 mg/l
(3)	Copper (Total)	Not to exceed 1 mg/l
(4)	Iron (Total)	Not to exceed 1 mg/l
Cooling Tower Blow Down		
(1)	Free available chlorine	Not to exceed 0.5 mg/l
(2)	Zinc	Not to exceed 1 mg/l
(3)	Chromium (Total)	Not to exceed 0.2 mg/l
(4)	Phosphate	Not to exceed 5 mg/l
D.M. Plant Effluent		
(1)	pH	5.5 to 9
(2)	Suspended Solids	Not to exceed 100 mg/l
(3)	Oil & Grease	Not to exceed 10 mg/l
(4)	BOD 3 days	Not to exceed 30 mg/l
(5)	COD	Not to exceed 250 mg/l

C] The Industry shall ensure connectivity online monitoring system to the MPCB server including separate energy meter for pollution control system.

D] The treated effluent shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, effluent shall find its way to outside factory premises.



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2. A) As per your application, you have provided Sewage Treatment Plant of designed capacity 385 CMD for the treatment of 470 CMD of sewage.
- B) The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards	
1	Suspended Solids	Not to exceed	50 mg/l
2	BOD 3 days 27°C	Not to exceed	30 mg/l
3	COD	Not to exceed	100 mg/l

- C) The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way to 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 an 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) Act, 1974 and as amended, by installing water meters 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	111292.00
2.	Domestic purpose	720.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	1218.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	100

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:

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

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO ₂ (kg/day)
Biflue stack	Boiler-1	ESP,ID Fan	275	Coal	4634 MT/Day	0.35	32438.00
Biflue Stack	Boiler-2	ESP,ID Fan	275	Coal	4634 MT/Day	0.35	32438.00
Triflue stack	Boiler-3	ESP,ID Fan	5.5	Coal	4634 MT/Day	0.35	32438.00
Triflue stack	Bolier-4	ESP,ID Fan	5.5	Coal	4634 MT/Day	0.35	32438.00
Triflue Stack	Boiler-5	ESP,ID Fan	5.5	Coal	4634 MT/Day	0.35	32438.00
DG#1	DG-1(1010 KVA)	Acoustic Enclosures	6.5 above roof top	HSD	2.6 KL/D	0.25	13.00
DG#2	DG-5(750 KVA)	Acoustic Enclosures	5.5 above roof top	HSD	2.2 KL/D	0.25	11.00
DG#3	DG-3(1010 KVA)	Acoustic Enclosures	6.5 above roof top	HSD	2.6 KL/D	0.25	13.00
DG#4	DG-5(750 KVA)	Acoustic Enclosures	5.5 above roof top	HSD	2.2 KL/D	0.25	11.00
DG#5	DG-5(750 KVA)	Acoustic Enclosures	5.5 above roof top	HSD	2.2 KL/D	0.25	11.00
For Boiler Light up	--	--	-	LDO	8.0 KL/D	1.80	288.00

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

Parameters	Standards	
Total Particulate Matter	Not to exceed	50 mg/ Nm3
Sulphur Dioxide(SO ₂)	Not to exceed	600 mg/ Nm3
Oxides of Nitrogen(NO _x)	Not to exceed	300 mg/ Nm3
Mercury	Not to exceed	0.03 mg/ Nm3



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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 (including the change of any control equipment, other in whole or in part is necessary).
6. The applicant shall operate four continuous automatic ambient air and micrometeorological monitoring station at location indicated by MPC Board to be setup and operate at its own cost for measurement of SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provisions of networking to the Air Quality Monitoring network of MPCB.
7. Control Equipment.
 - a) Electrostatic Precipitator (ESP) of sufficient capacity shall be provided to Boiler and any other sources of particulate matter and it shall be Operate and maintain so as to ensure that TPM emission doesnot exceed 50 mg/Nm³.
 - b) Dust collecting system and automatic water sprinkler system provided to Coal Handling Plants shall be operate and maintain continuously.
 - c) Dust collector of sufficient capacity provided to coal crusher and any other source of SPM shall operate and maintain continuously.
 - d) There shall not be any fugitive emission from coal storage yard.
 - e) 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.





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SCHEDULE-III Details of Bank Guarantees:

Sr. No.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C2R	Rs. 50 Lakh	15 days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Continuous	31.12.2021
2	C2R	Rs. 5 Lakh	15 days	To switch over to 100 % usable dry fly ash collection and storage	6 months	31.12.2021
3	C2R	Rs. 2 Lakh	15 days	Towards utilization of fly ash as per fly ash notification 1999.	Continuous	31.12.2021
4	C2R	Rs. 2 Lakh	15 days	Towards Mitigation of seepages from wet fly ash conveying system	Continuous	31.12.2021
5	C2R	Rs. 2 Lakh	15 days	Towards Scientific operation of ash pond i.e. uniform distribution of wet slurry in the pond so as to have minimum depth of water	Continuous	31.12.2021
6	C2R	Rs. 2 Lakh	15 days	Towards providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	3 months	31.12.2021
7	C2R	Rs. 5 Lakh	15 days	Towards Scientific closure of abandoned ash pond with soil cover and plantation over it	6 months	31.12.2021
8	C2R	Rs. 5 Lakh	15 days	Towards Operation & maintenance of the Effluent Treatment Plant to achieve disposal standards	Continuous	31.12.2021
9	C2R	Rs. 5 Lakh	15 days	To reduce specific water consumption m ³ /MWh as per MoEF&CC notification dtd. 7th Dec, 2015 and as amended 28th June, 2018.	3 months	31.12.2021



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Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
10	C2R	Rs. 5 Lakh	15 days	To submit detail water budget with proposal for recycle of treated effluent to the maximum extent to reduce fresh water consumption, for betterment of water economy within period of 3 months with bar chart	3 months	31.12.2021

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				





SCHEDULE-IV
General Conditions:

1. 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 MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
2. The applicant shall maintain good housekeeping.
3. 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.
4. 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.
5. 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.
6. 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).
7. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
8. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
9. 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 an extension or addition thereto.
10. 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.



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11. The PP shall provide personal protection equipment as per norms of Factory Act
12. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
13. 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.
14. 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.
15. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, 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.
16. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
17. 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).
18. 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.
19. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
20. The industry should not cause any nuisance in surrounding area.
21. 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.
22. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
23. 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.
24. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.



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25. 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.
26. 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 31st March of the year and number of trees planted by September end.
27. 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.
28. The firm shall submit to this office, the 30th day of September every year, the Environment 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.
29. 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.
30. 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).
31. 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.

