

MAHARASHTRA POLLUTION CONTROL BOARD

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

Consent No: Format 1.0/ BO/CAC-Cell/Chandrapur/CAC- 10638

Date- 30/11/2016

To,

M/s. Sai Wardha Power Limited

(Formerly known as Wardha Power Company Limited)

B-2 Warora Growth Center

MIDC Warora, Tq. Warora, Dist. Chandrapur

Subject: Renewal of consent to Operate with increase in capital investment.

Ref : 1. Earlier Consent granted vide no. Format 1.0/ BO/CAC-Cell/Chandrapur/
CAC- 156, dtd. 10-03-2015

2. Minutes of CAC meeting held on 10.10.2016

Your application: CR1606000016

Dated: 10.12.2015

For: Auto Renewal of Consent to 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:

1. The consent is granted for a period upto 31/08/2017
2. The actual capital investment of the industry is Rs. 2893.922/- 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 in MT/A
1.	Electricity Generation	4 x 135 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	7128	As per Schedule -I	Recycle
2.	Domestic effluent	528	As per Schedule -I	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.	Boiler I & II (ESP followed by Bag Filters)	01	As per Schedule -II
2.	Boiler III & IV (ESP followed by Bag Filters)	01	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	Fly Ash	2074 Tons/ Day	---	Shall be sent to Cement Manufacturers/ Brick Manufacturers. Dispose as per Govt. of India Guidelines Notification vide No.: SO 763 (E) Dated: 14/09/1999
2.	Bottom Ash	519 Tons/ Day	---	

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.	Used/ Spent Oil	5.1	4000	Lit./ Month	—	Sale to authorized recycler/ re-processor

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. The MPC Board reserves the rights to revoke the consent any time for any violations.
10. Industry shall promote adoption of clean coal (with ash content less than 34%) and clean power generation technologies and 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 & amendment dtd 02nd January 2014.
11. Industry shall comply the standards stipulated by the Ministry of Environment, Forest and Climate Change vide Notification dated 07.12.2015.

12. General Conditions;

1. Industry shall comply MOEF Notification dated 02.01.2014 by supplied with and shall use, raw or blended or beneficiated coal with ash content not exceeding 34% on quarterly average basis.
 2. 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 or beneficiated coal with ash content not exceeding 34% on quarterly average basis.
 3. Industry shall comply MOEF Notification dated 07.12.2015 with respect to standards stipulated in the Notification as per the time schedule.
 4. Industry shall comply consent conditions, conditions stipulated in the Environmental Clearance.
 5. Industry shall comply with the fly ash Notification dated 03.11.2009.
13. 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

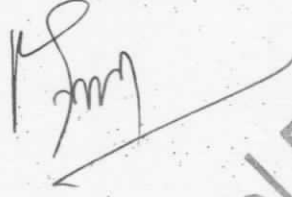
(Dr. P Anbalagan, IAS)
Member-Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	55,87,844/-	003129	19.08.2015	IDBI Bank
2.	2,00,000/-	003131	20.08.2015	IDBI Bank
3.	1,00,000/-	003405	01.03.2016	IDBI Bank
4.	58,87,844/-	13674	02.06.2016	IDBI Bank

Copy to:

1. Regional Officer - Chandrapur, Sub-Regional Officer- Chandrapur MPCB, Chandrapur. 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.



2 2,00,000/- 003131 20.08.2015 IDBI Bank

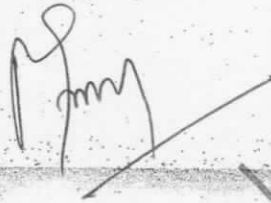
Maharashtra Pollution Control Board

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Received Consent fee of -

Chandrapur. They are directed to ensure the compliance of the consent

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 7128CMD.
- 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.
- (i) **Trade Effluent Treatment:** The applicant shall provide comprehensive treatment system consisting of primary/ secondary and/ or tertiary treatment as is warranted with reference to effluent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

The industrial effluent arising from various sections of Power Plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

I. Condenser Cooling Water:

- | | | | |
|----|-------------------------|--|------------|
| 1) | pH | Between | 6.5 to 8.5 |
| 2) | Temperature | Not to exceed 5 Degree C. Higher than the intake water temperature | |
| 3) | Free available Chlorine | Not to exceed | 0.5mg/l |

II. Boiler Blowdown:

- | | | | |
|----|------------------|---------------|----------|
| 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 |

III. Cooling Tower Blowdown:

- | | | | |
|----|-------------------------|---------------|----------|
| 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 |

IV. D. M. Plant Effluent:

- | | | | |
|----|-----------------------|------------------|----------|
| 1) | pH | Between 5.5 to 9 | |
| 2) | BOD 3 days 27 Deg. C. | Not to Exceed | 30 mg/l |
| 3) | COD | Not to Exceed | 250 mg/l |
| 4) | Suspended Solids | Not to Exceed | 100 mg/l |
| 5) | Oil & Grease | Not to Exceed | 10 mg/l |
| 6) | TDS | Not to Exceed | 2100mg/l |

- C) The treated effluent shall be 100% recycled in the process to achieve zero discharge, in the case effluent shall find its way for gardening/greenbelt inside or outside factory premises.

- 2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 528CMD.



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 27°C.	Not to exceed	30	mg/l.
(3)	COD.	Not to exceed	100	mg/l.

C]The treated sewage shall be disposed on land for soaking/gardening/greenbelt irrigation.

- 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/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- 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	37836
2.	Domestic purpose	540
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.



Domestic purpose

540

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) 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.	Boiler I & II	ESP followed by Bag Filters	220	Coal	3600 Tons/ Day	0.5	36000
2.	Boiler III & IV	ESP followed by Bag Filters	220	Coal	3600 Tons/ Day	0.5	36000
3.	Oil Fired Furnace	---	30	Furnace Oil	12 Tons/ Hr.	4.5	25920

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. (Concern section shall mention specific control equipments)
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	100 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 (including the change of any control equipment, other in whole or in part is necessary).
6. Control Equipment's:
- Electrostatic Precipitator of sufficient capacity provided to each Boiler (3 to 5 nos) and any other sources of particulate matter shall be operate and maintain so as to ensure that TPM emission do not exceed 100 mg/Nm³
 - 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
Details of Bank Guarantees

Existing to be extended

Sr. No.	BG Code	Amt of BG Imposed	Submission on Period	Purpose of BG	Compliance Period	Validity Date
	PNC1			Handling and disposal of flyash		
1	PNC1a	5/- Lakhs	15 Days	To switch over to 100% usable dry fly ash collection and storage	Continuous	31.12.2017
2	PNC1b	1/- Lakh	15 Days	Towards utilization of flyash as per flyash notification 1999.	Continuous	31.12.2017
3	PNC1c	1/- Lakh	15 Days	Towards Mitigation of seepages from wet fly ash conveying system	Continuous	31.12.2017
4	PNC1d	1/- 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	31.12.2017
5	PNC1e	1/- Lakh	15 Days	Towards Providing arrangement for reuse of 100% seepage water, arising from ash pond, for ash slurry	Continuous	31.12.2017
6	PNC1e	5/- Lakhs	15 Days	Towards Scientific closure of abandoned ash pond with soil cover and plantation over it	Continuous	31.12.2017
7	PAO1	25/- Lakhs	15 Days	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards.	Monthly	31.12.2017
8	PWO1	5/- Lakhs	15 Days	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards.	Monthly	31.12.2017

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Rs. 2/- Lakhs	15 Days	Submission of Design details of STP	---	31.12.2017
2	C to R	Rs. 2/- Lakhs	15 Days	To perform water audit as well as performance audit of treatment unit of ETP	---	31.12.2017

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 before the date of the expiry of the 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 Environment 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 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.
- 29) 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
- 30) 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.

- 31) 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.
- 32) 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 SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.
- 33) They shall promote adoption of clean coal and clean power generation technologies.
- 34) 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.
- 35) 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.

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