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Phone :	MAHAR 4010437/4020781			TON CON	IROL	BOARD
	4010437/4020781 /4037124/4035273			Kalpataru F	oint. 3rd	& 4th floor Sion Mar
Fax :	24044532/4024068		MAHARASHTRA	ouncine Roa	au INO. O. (Opp. Cine Planet Cinema,
Email :	enquiry@mpcb.gov			Sion Circle, Mumbai - 40	SIOH (⊑),	
	http://mpcb.gov.in					
Consent order	r No: - Consent N	No. BO/JD(/	APC)/EIC-NG	-9087-13/R/C	C- CAC-	9286 _{ate-}
To,						02/11/2013
Knaperkhec	shtra State Powe la Thermal Powe neda, Dist-Nagpu	er Station /	ion Co.Ltd., (Expansion),			
Ref :] BO/,	onsent to opera l. Earlier Con JD(APC)/EIC No. Minutes of CA(sent grai NG-7209-	nted for 1 12/R/CC-CAC	500 datod '	/) vide 13.07.201	no. Consent No. 2.
		e meening	, neiu on 05.	10.2013.		
Your applic	ation				The second se	
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7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No		Category	Quantity	UOM	Treatment	Disposal
1	Used/spent oil	5.1	5.0	KL/Year	-	Sale to authorized
2	Chemical Sludge from Waste water treatment	34.3	10.0	MT/year		recycler/re-processor
3	Polythene bags/discarded HDPE Bags	33.3	5.0	MT/year	£	
4	Wastes/residue containing oil (Waste grease/oil contaminated cotton waste)	5.2	1.0	MT/year		CHWTSDF,Butibori ,Nagpur
5	Waste Glass wool		5.0	MT/year		

- The Board reserves the right to review, amend, suspend, revoke etc. this consent 8. 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.

For and on behalf of the Maharashtra Pollution Control Board

(Rajeev K umar Mital) Member Secretary

Rec	eived Consent fo	ee of –	1 Martin		
Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On	
1	67,53,687	114543	16.05.2013	Dena Bank	*
		\mathcal{H}			·····

Copy to:

- 1. Regional Officer Nagpur and Sub-Regional Officer-Nagpur-II, MPCB, -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.

		<u>Schedule-I</u>	
	Terms & conditions for compliance of	of Water Pollution Control:	
	 A] As per your application, you h the design capacity of 400 m3 	ave provided the Effluent Tre /hr.	eatment Plant (ETP) with
(i)	 B] The Applicant shall operate effluent so as to achieve the fe Act, 1986 and Rules made ther I) Trade Effluent Treatment: T system consisting of primary / se reference to influent quality and a achieve the quality of the treated e 	The applicant shall provide condary and/or tertiary treatment operate and maintain the san	ed by the Board or under EP hichever is stringent. comprehensive treatment hent as is warranted with
a)	The industrial effluent arising from treatment either collective or indivi- of effluent shall have following char Condenser Cooling Water: 1) pH 2) Temperature	racter standards: Between 6.5 to 8.5	Plant shall be given such rmits that the final quality
b)	 Free available Chlorine Boiler Blow down: 1) Suspended Solids 2) Oil & Grease 3) Copper (Total) 	Not to exceed 5 Degree C. Higher than the intake water Not to exceed 0.5 mg/l Not to exceed 100 mg/l. Not to exceed 20 mg/l. Not to exceed 1 mg/l.	temperature.
		Not to exceed 1 mg/l.	
c)	Cooling Tower Blow down:1)Free available Chlorine2)Zinc3)Chromium (Total)4)Phosphate5)Phosphate	Not to exceed 0.5 mg/l. Not to exceed 1 mg/l. Not to exceed 0.2 mg/l. Not to exceed 5 mg/l.	
d)	 D.M. Plant Effluent: 1) PH 2) BOD 3 days 27 Deg. C. 3) COD 4) Suspended Solids 5) Oil & Grease 6) TDS 	Between5.5 to 9Not to exceed30 mg/l.Not to exceed250 mg/l.Not to exceed100 mg/l.Not to exceed10 mg/l.Not to exceed2100 mg/l.	
	C) The treated effluent shall be 10 no case effluent shall find its wa	0% recycled in the process to ay for gardening/outside facto	o achieve zero discharge. In ory premises.
2)) A.] As per your consent application with the design capacity of ST	on, you have provided the sev FP-I- 2.5 m3/hr and STP-II-2.5	wage treatment system 5 m3/hr.
	B] The Applicant shall operate the achieve the following standards under from time to time, which	5/ prescribed under EP Act. 1	treat the sewage so as to 986 and Rules made there
	 Suspended Solids. BOD 3 days 27oC. 	Not to exceed 100	mg/l.
	C] The 100% treated sewage shall		mg/l. fighting, cooling etc

- 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
1.	Industrial Cooling, spraying in mine pits or boiler	quantity (CMD) 39300.0
2.	feed Domestic purpose	
3.	Processing whereby water gets polluted &	150.0
	pollutants are easily biodegradable	
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are	1
	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 proposed to install/ provided the Air pollution control (APC)system and also proposed to erect / erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Boiler	ESP	275	Coal	7759 MT/day	0.4	62072
				Furnace Oil	7.9 KL/day	4.5	711
				LDO	1.98 KL/day	1.8	71.28

- 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:

	50 mg/Nm ³ .
matter	

- 4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration 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).

All Carlo

Schedule-III Details of Bank Guarantees

	Consent (C to E/O/R)	Amt of BG Imposed	Submissio n Period	Purpose of BG	Compliance Period	Validit Date
1	R	Rs. 25.0/- Lacs	Within 15 days	towards operation and Maintenance of Pollution control system	244 244	31.12.20
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M/s MAHAGENCO, Khaperkheda Thermal Power Station, Nagpur.

<u>Schedule-IV</u>

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.
- 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, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 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.
 The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, 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.
- 9) 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 Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during them visit to the applicant.
- 11) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(<u>www.mpcb.gov.in</u>).
- 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 sitting 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.
- Specific Conditions-
- 1) The applicant shall comply with the conditions stipulated in Environment Clearance granted by MoEF,Gol vide No.J-13011/24/2005-IA-II(T) dated 02.06.2006.
- 2) The industry shall comply with the notification issued by MoEF for utilization of flyash from coal or lignite based thermal power plants dated 14th September, 1999 and as amended on 3rd November, 2009.
- 3) 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
- 4) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
- 5) The applicant shall operate online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 6) The applicant shall operate all continuous automatic ambrent air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO2, NOx and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

M/s MAHAGENCO, Khaperkheda Thermal Power Station, Nagpur.