

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No: - BO/CAC-Cell/EIC No:-PN-23376-14/CAC/ 4235 Date-13/04/2015

To,
M/s Thermax Babcock & Wilcox Energy Solutions Pvt. Ltd,
Plot No A2 & A3, MIDC Khandala Industrial Area Ph - 01, Kesurdi,
Tal-Khandala, Dist: Satara,

Subject: 1st consent to operate for expansion with amalgamation in RED category.

Ref : 1. Earlier Consent to Operate granted vide no. Formate.1.0/BO/CAC-Cell/EIC No.PN-21474-14/CAC/9640 Dt. 18.10.2014.
2. Your application approved in CAC meeting held on 10.03.2015.

Your application:- CE1412000110

Dated: 10.11.2014

For: 1st consent to operate for expansion with amalgamation 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:

- The consent is granted for a period upto 30.04.2015.
- The actual capital investment of the industry is Rs. 553.46 Cr. (Existing CI- Rs. 552.74 Cr + Expansion CI- Rs. 0.72 CR as per C.A. Certificate submitted by industry).
- The Consent is valid for the manufacture of-

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Economiser & Superheater Coils	1425 MT/M
2.	Membrane Wall Panels	460 MT/M
3.	Headers for Coils & Panels	595 MT/M
4.	Structural Material	20 MT/M

- 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	25	As per Schedule -I	On land for gardening
2.	Domestic effluent	71.3	As per Schedule -I	On land for gardening

- Conditions under Air (P& CP) Act, 1981 for air emissions:

Sl. No.	Particulars of State / source	Number of States	Standards to be achieved
1.	High Blasting Unit (2 nos.)	1	As per Schedule II

M/s. Thermax B & W Energy Solution Pvt. Ltd, SRO Satara/1/R/1/53174000

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
3.	Paint Booth	1	As per Schedule -II
4.	D.G. Set (1000 KVA x 2 nos.)	2	As per Schedule -II
5.	D.G. Set (775 KVA)	1	As per Schedule -II
6.	D.G. Set (500 KVA)	1	As per Schedule -II
7.	Paint Booth (Dry Type)	2	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	Tubes	432 Tons/Year	...	By Sale to authorized vendor
2.	Pipes	132 Tones/ Year	...	
3.	Strips	18 Tones/ Year	...	
4.	Structural Material	60 Tones/ Year	...	
5.	Wooden Scrap	24 Ton /Year	...	

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	5.0	Kl/Year	...	Sale to authorized re-processor CHWTSDF.
2.	Wastes/Residue containing oil, oily cotton waste, etc	5.2	1000	Kg/year	...	
3.	Wastes & Residues of Paint.	21.1 & 21.2	800	Kg/year.	...	CHWTSDF
4.	Empty tins of paint, thinner & oil	33.3	3000	Nos/year.	...	Sale to authorized re-processor
5.	Empty Oil Barrels.	33.3	40	Nos/Year.	...	
6.	ETP Sludge	34.3	10	MT/Year	...	CHWTSDF.

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

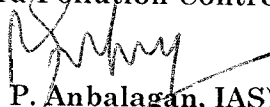
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

10. Project proponent have installed the 2 nos. of paint booth (dry type) without obtaining consent from the Board and violated the environmental laws. Hence, it was decided to obtain a resolution from the Company's Board that they have installed the 2 nos. of paint booth (dry type) without consent and violated the provisions of environmental laws and in future, they will not do such violation. The Board resolution shall be submitted by 31.03.2015.

11. Industry shall perform VOC characterization of the dry paint booth and mass balance of the material they are using in order to find the quantity and quality of the VOC present and submit the report within one month to MPCB.

12. This consent is issued with overriding effect over previous consent issued by the Board vide consent no BO/CAC-Cell/EIC No-PN-21474-14/CAC/9640 dated 18.10.2014.

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. 10,000/-	071785	30.10.2014	ICICI Bank
2.	As per the consent granted by the Board vide consent no BO/CAC-Cell/EIC No-PN-21474-14/CAC/9640 dated 18.10.2014. Industry has balance fees Rs. 2,81,490/- with the Board, which will be considered at the time of next renewal of consent.			

Copy to:

1. Regional Officer -Pune- He is directed to forfeit the BG of Rs. 5/- lakhs out of BG of Rs. 10/- lakh obtained towards not to carryout construction of 2 Nos. of paint booth (dry type) with paint storage & construction of building without obtaining CtoE from the Board & EC.
2. Sub-Regional Officer-Satara,- They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website up-dation 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) with the design capacity of 62 CMD.

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	Standards prescribed by Board (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	100
04	Total Dissolved Solids	2100
	II Additional Parameters	
05	Suspended Solids	100
06	COD	250
07	Chloride	600
08	Sulphate	1000

C] The treated trade effluent shall be used on land for gardening purpose after confirmation of above standards. There shall not be any discharge outside the factory premises.

2) A] As per your consent application, you have provided the sewage treatment system with the design capacity of 150 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.

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|-----|-------------------|---------------|-----|-------|
| (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 used on land for gardening purpose after confirmation of above standards. There shall not be any discharge outside the factory premises.

D] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

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 for the establishment of the unit or extension of 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	Nil
2.	Domestic purpose	103.5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable (Hydraulic Testing)	46.50
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5.	Gardening	96.3

- 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:

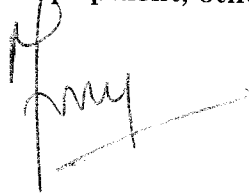
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Stress relieving Furnace, (Section Shop)	Dust collector with bag filters	30	LPG/Propane	395 Kgs/Hr	Nil	Nil
2	Stress relieving Furnace, (Panel Shop)	Dust collector with bag filters	30	LPG/Propane	505 Kgs/Hr	Nil	Nil
3	Stress relieving Furnace, (Header Shop)	Dust collector with bag filters	30	LPG/Propane	580 Kgs/Hr	Nil	Nil
4	Tube Shot Blasting (m/c, Panel Shop)	Dust collector provided	15	NA	NA	NA	NA
5	Strip shot Blasting (m/c Panel Shop)	Dust collector provided	15	NA	NA	NA	NA
6	Tube Shot blasting (m/c Section Shop)	Dust collector provided	15	NA	NA	NA	NA
7	Paint booth (Header Shop)	paint arrestor filters provided	15	NA	NA	NA	NA
8	Paint booth (Dry type)	paint arrestor filters provided	6	NA	NA	NA	NA
9	Paint booth (Dry type)	paint arrestor filters provided	9	NA	NA	NA	NA
10	D.G. Set (1000 KVA)	Acoustic enclosure	30	HSD	205 lit/hr	1	98
11	D.G. Set (1000 KVA)	Acoustic enclosure	30	HSD	205 lit/hr	1	98
12	D.G. Set (775 KVA)	Acoustic enclosure	13	HSD	164 lit/hr	1	78
13	D.G. Set (500 KVA)	Acoustic enclosure	13	HSD	102 lit/hr	1	49

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	150 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).



Madhya Pradesh Pollution Control Board

Schedule-III
Details of Bank Guarantees

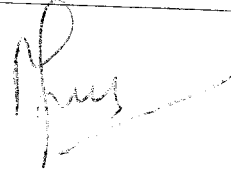
BG History

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Amt of BG to be forfeited from BG imposed	Purpose of BG forfeited
1	C to E (to be forfeited)	Rs. 10/- lakh	Rs. 5/- lakh	Work of provision of both the paint booth is completed without obtaining CtoE from the Board.

BG proposed

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. 5 Lakhs (to be extended)	15 days	Towards O & M of Pollution Control System	30.04.2015	30.08.2015
2	C to R	Rs. 2 Lakhs	15 days	Towards submission of resolution from the Company's Board regarding installation of 2 nos. of paint booth (dry type) without obtaining consent from the Board and violated the environmental laws.	30.04.2015	30.08.2015

Industry shall submit the BG to Regional Office, Pune



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, 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.
- 7) 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.
- 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 Hazarsous 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 their 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(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 effluent 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 by the Government of India, Notification dt. 16.11.2009 as amended.