

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Consent order No :- 1.0/BO/CAC-Cell/EIC No:-PN-21415-14/CAC- 5904  
Date-23/6/2014

To,  
M/s. GE India Industrial Pvt. Ltd.  
Plot A-78/1, Chakan Industrial Area, Phase II,  
Taluka- Khed, District Pune- 410 501  
Maharashtra

Subject: 1st Consent to Operate (Phase-II) with amalgamation with existing consent (Phase-I) in RED category.

- Ref : 1. Consent to Establish granted vide No. BO/JD [APC]/ EIC No PN-13413-12/E/CC/CAC-998; dated 04/12/2012.  
2. Consent to 1<sup>st</sup> Operate (phase-I), granted vide No: Format 1.0/BO/CAC-Cell/EIC No. RD - PN-19889-13/18th CAC-811 dated 27.01.2014.  
3. Minutes of CAC meeting held on 17/6/2014.

Your application:- CO1405000016.

Dated: 09/04/2014

For: 1<sup>st</sup> Consent to Operate (Phase-II) with amalgamation with existing consent (Phase-I)

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 the period upto 28/02/2015.
2. The actual capital investment of the industry is Rs.450.00 Crs. (Existing Phase-I:- Rs. 255 Cr + Phase-II- Rs. 195 Cr. i.e. total Rs. 450 Cr. 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
1	Assembly of Wind Turbine Components such as Machine Head, Hub and Down Tower	500 Nos./Annum
2	Assembly of Measurement and Control Solution products	500 Nos./Annum
3	Components Manufacturing	1,50,000 Nos./Annum
4	Calibration Laboratory	100 Calibration Nos./Annum
5	Gas Powered Engines (Jenbacher)	150 Nos./Annum
6	Reciprocating Compressors for Oil & Gas Industry	125 Nos./Annum
7	Locomotive Diesel Engines (New Unit)	150 Nos./Annum
8	Locomotive Diesel Engines (Overhaul Unit)	100 Nos./Annum

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	88	As per Schedule -I	100% recycle/reuse for cooling tower
2.	Domestic effluent	114	As per Schedule -I	60% recycle/reuse in the process & flushing etc and remaining on land for gardening purpose.

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.	DG set - (1010 KVA x 2 nos.)	2	As per Schedule -II
2.	Process D-loco Engine	1	As per Schedule -II
3.	Process Testing Gas Engine 2 Nos	1	As per Schedule -II
4.	Utility Power Backup Gas Engine	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. No.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Domestic solid waste	135 MT/A	Composting	Manure
2.	Card board	144 MT/A	NA	By Sale to Authorized re-processor
3.	Scrap metal	175 MT/A	NA	
4.	Plastic and packaging waste	460 MT/A	NA	
5.	Wooden scrap	525 MT/A	NA	
6.	Trivial waste	76.0 MT/A	NA	
7.	Machining scrap	53.0 MT/A	NA	
8.	Paper and other garbage waste	6.0 MT/A	NA	
9.	Electronic waste	24.0 MT/A	NA	

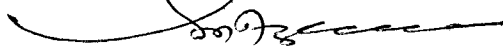
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Acid Residues	12.1	20	MT/Year	NA	CHWTSDF
2	Wastes and Residues	21.1	13.8	MT/Year	NA	CHWTSDF
3	Discarded	33.3	34	Nos./Year	NA	CHWTSDF

Sr. No.	Type of Waste	Category	Quantity	UOM	Treatment	Disposal
	barrels/containers/Liners/spray cans					
4	Filter and filter materials which have organic liquid	35.1	8	MT/Year	NA	CHWTSDF
5	Spent bath /Metal containing sludge	12.3	0.4	MT/Year	NA	CHWTSDF
6	Waste / residues containing oil (Oil contaminated waste material, cotton waste, waste rags, Machining muds, Grease waste)	5.2	23.7	MT/Year	NA	CHWTSDF
7	Chemical Residues , oil and grease , skimming residues ( ETP sludge , tank cleanout)	34.4	58	MT/Year	NA	CHWTSDF
8	Filter and filter materials which have organic liquid(sealant residues)	35.1	0.3	MT/Year	NA	CHWTSDF
9	Used / waste oil	5.1	74.4	MT/Year	NA	Sale to authorized re-processor
10	Spent solvent	20.2	4.2	MT/Year	NA	CHWTSDF
11	Residues and wastes	31.1	24	MT/Year	NA	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. Consent is issued with the overriding effect of Board's earlier consent to operate no BO/CAC-Col/EIC No RD PN-19889-13/18th CAC-811 dated 27/01/2014.

For and on behalf of the  
Maharashtra Pollution Control Board



(V. M. Motghare)  
I/c. Member Secretary

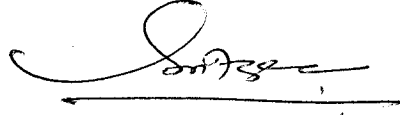
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Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	Rs. 3,90,000/-	107475	21/02/2014	HSBC Bank
2	Rs. 2,34,000/-	107476	21/02/2014	HSBC Bank
3	Rs. 100/-	107346	05/02/2014	HSBC Bank

Copy to:

1. Regional Officer -Pune and Sub-Regional Officer-II MPCB, Pune. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updating purposes.



Maharashtra Pollution Control Board

## Schedule-I

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

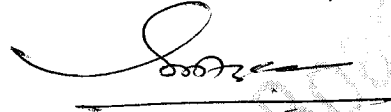
- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 100 CMD with RO system.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board (Limiting Concentration in mg/l, except for pH)	
1	pH	Between	5.5- 9.0
2	SS, mg/l	Not to Exceed	100
3	BOD, mg/l	Not to Exceed	30
4	COD, mg/l	Not to Exceed	250
5	Oil and Grease, mg/l	Not to Exceed	10
6	TDS	Not to Exceed	2100
7	Chlorides	Not to Exceed	600
8	Sulphates	Not to Exceed	1000

- C) 100% treated effluent shall used for Cooling tower makeup water 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 140 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 | 10  | mg/l. |
| (3) | COD               | Not to exceed | 100 | mg/l. |
- C] 60% treated sewage shall be reused/recycled in the process/ for toilet flushing etc. and remaining shall be used on land for gardening purpose after confirmation of above standards. There shall not be any discharge outside the 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	208
2.	Domestic purpose	134
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	100
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil
5	Other such as agriculture, gardening etc	250

- 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.



Maharashtra Pollution Control Board

**Schedule-II**

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

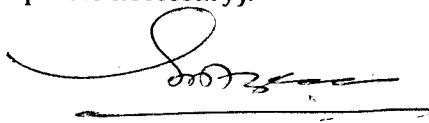
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO <sub>2</sub> Kg/Day
1	DG Set (1010 KVA)	---	30	HSD	203 lit/Hr	2	97.44
2	DG Set (1010 KVA)	---	30	HSD			
3	Process D-loco Engine	---	30	---	---	---	---
4	Process Testing Gas Engine 2 No	---	30.5	---	---	---	---
5	Utility Power Backup Gas Engine	--	30.5	---	---	---	---

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 <sup>3</sup>
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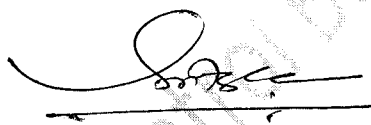
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to 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).



**Schedule-III**  
**Details of Bank Guarantees**

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O, Phase-I	Rs. 5 lakhs	Submitted*	Operation and maintenance of STP & ETP	28/02/2015	30/6/2015
2	C to O, Phase-II	Rs. 5 lakhs	15 days	Towards compliance of consent conditions and environmental clearance	28/02/2015	30/6/2015
3	C to O, Phase-II	Rs. 5 lakhs	15 days	100% treated trade effluent shall recycle/reuse for cooling tower	28/02/2015	30/6/2015

*\*Industry has already submitted the BG of Rs. 5 lacs which is valid upto 30/6/2015.*





#### 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
- 9) /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.
- 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 Waste (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) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity (in case of Consent to establish).
- 13) 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).
- 14) 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)).
- 15) 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.
- 16) 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.

- 17) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 18) 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.
- 19) 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
- 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 applicant shall maintain good housekeeping.
- 23) 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 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
- 24) 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.
- 25) 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.
- 26) 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.
- 27) 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).
- 28) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 29) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 30) ***The applicant shall comply with the conditions stipulated in Environmental Clearance granted by GoM vide No. SEAC 2012/ CR 254/ TC-2 dtd.02-02-2013.***

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