


MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date: 14/12/12

Consent No: BO/JD (APC)/TB-3/EIC No. RD-2359-12/CC-750

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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

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CONSENT is hereby granted to

M/s Pushpaman Forgings
(A Division. of Echjay Forgings P. Ltd)
Village-Honad, Tal-Khalapur Dist-Raigad.
Raigad, Maharashtra
India.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 31/01/2017.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Steel Forging	1250	Ton/Month

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 3.75 M³
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 8M³

(iii) Trade Effluent :

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	5.5 to 9.0
2	Temperature	Should not exceed 5 c above the ambient temperature of the receiving body	
3	Oil & Grease	Not to exceed	10 mg/l
4	Suspended Solids	Not to exceed	100 mg/l.
5	Cyanide (as 'CN')	Not to exceed	0.2 mg/l.
6	Ammonical nitrogen (as N)	Not to exceed	50 mg/l.
7	Total residual chlorine (as Cl ₂)	Not to exceed	1.0 mg/l.
8	Cadmium (as Cd)	Not to exceed	2.0 mg/l.
9	Nickel (as Ni)	Not to exceed	3.0 mg/l.
10	Zinc (as Zn)	Not to exceed	5.0 mg/l.
11	Chromium as Cr Hexavalent Total	Not to exceed	0.1 mg/l.
12	Copper (as Cu)	Not to exceed	3.0 mg/l.
13	Lead (as Pb)	Not to exceed	0.1 mg/l.
14	Iron (as Fe)	Not to exceed	3.0 mg/l.
15	Total metal	Not to exceed	10.0 mg/l.

(iv) **Trade Effluent Disposal:** The metal bearing industrial effluent shall be segregated and reused back into process and remaining treated effluent shall use on land for gardening. There shall not be any discharge outside the factory premises.

(v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

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|-----|-------------------|---------------|-----|-------|
| (1) | Suspended Solids | Not to exceed | 100 | mg/l. |
| (2) | BOD 3 days 27o C. | Not to exceed | 100 | mg/l. |

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Solid Scrap	180	MT/M	Nil	Sale

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

- | | | |
|---|-----|----------|
| (i) Domestic purpose | ... | 8.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable | ... | 3.75 CMD |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed | ... | 5.00CMD |

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. CONDITIONS UNDER AIR ACT :

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

a. Control Equipment:

1. Industry shall provide dust collector of sufficient capacity to control the emissions.
2. Dust collector provided to shot blasting process shall be operate and maintain properly.
3. Fume extraction system provided to heating furnace and salt bath section shall be operate and maintain properly.
4. Scrubber provided to oil quenching process shall be operate and maintain properly.
5. The industry shall take all the necessary precaution to control noise pollution in the industrial activities and also the nuisance due to vibration generated due to hammering operations. The industry shall take suitable acoustic measures including shielding enclosures, noise barriers , separation etc. to control the noise levels with the norms stipulated to avoid nuisance in the surrounding etc. to control noise and vibration in forging activity.

b. Standards for Emissions of Air Pollutants:

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|----------------------|---------------|-------------------------|
| (i) SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| (ii) SO ₂ | Not to exceed | 900 Kg/day |
| (iii) Acid Mist | Not to exceed | 35 mg / Nm ³ |

6. 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure.
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

7. Standards for Stack Emissions:

- (i) **The applicant shall observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	10	KL/D
2	HSD	25	L/Hr

- (ii) **The applicant shall erect the chimney(s) of the following specifications:-**

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Hammer Furnace(1 ton)	11.00
2	Electric Fit Furnace(5 ton)	0.00
3	Electric Fit Furnace(5 ton)	0.00
4	Hammer Furnace(6 ton)	11.00
5	Hammer Furnace(3 ton)	11.00
6	Hammer Chombi Furnace(5 ton)	16.00
7	Rolling Furnace New(5 ton)	11.00
8	Rolling Furnace New(5 ton)	11.00
9	Rolling Furnace New(5 ton)	11.00
10	Rolling Furnace New(36 ton)	10.00
11	Rolling Furnace New(18 ton)	16.00
12	Boogie (10 ton)	11.00
13	Lasco Press	9.00
14	Box type	0.50
15	Sail Bath(0.5 ton)	8.00
16	D.G.set(125 KVA)	5 mtrs above roof of bldg.

- (iii) 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.

(iv) 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.

(v) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality Regularly.

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
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The industry shall not generate any hazardous waste

(ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.
 - a. 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.
 - b. Industry shall obtain registration from CPCB as a re-refiner of Used oil having environmentally sound technology as per the provisions of Hazardous Waste (Management & Handling) Rules 1989 & Amendment Rules 2003 before commencement of production.
 - c. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
 - d. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

9. Industry shall comply with following additional conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – 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 to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. 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 pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- x. The applicant shall install a separate electric 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.
- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
11. Industry shall submit the Bank Guarantee of Rs. 2 Lakhs validity of one year period in the Board within one month period towards operation and maintenance of pollution control system so as to achieve consent standards / and compliance of the same.
12. This consent is issued with the approval of Consent Committee Meeting of the Board in its meeting held on 04.12.2012.
13. The Capital investment of the industry is Rs. 48.68 Crs.

For and On Behalf of the
Maharashtra Pollution Control Board,

(Rajeev Kumar Mital, IAS)
Member Secretary

M/s Pushpaman Forgings
(A Division of Echjay Forgings Pvt. Ltd)
Village-Honad, Tal-Khalapur Dist-Raigad.
Raigad, Maharashtra
India.

Co Copy to:

- 1) Regional Officer, MPCB, Raigad. - He is instructed to submit the Compliance report of the industry within one month period.
- 2) Sub-Regional Officer, Raigad-I MPCB, Navi Mumbai.-
- 3) Chief Accounts Officer, MPCB, Mumbai
- 4) Cess Branch/Master File

Industry has paid the consent fees as per the Environment Department G.R.dated 25.08.2011.

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	1,00,000/-	302020	27.12. 2011	Saraswat Co-Op Bank
2	275000/-	884319	13.01.2012	Saraswat Co-Op Bank
3	1,80,000/-	884991	16.04.2012	Saraswat Co-Op Bank