

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/L.S.I

Consent No: BO/JD(APC)/TB-2/EIC No.PN-9677-11/O/CC ^{CAC-07} Date: 16/11/2011
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].

CONSENT is hereby granted to

M/s. Essar Steel Pvt. Ltd.,
Gat No.740, Sanaswadi, Pune Nagar Road,
Tal- Shirur, Dist - Pune.

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 --- 30/09/2015.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	Unit
1	Colored Coated sheets/ coils	42000	MT/M
2	Pickled Sheets/ coils	40000	MT/M
3	Cut sheets profiled & corrugated sheets, sandwich panels	12600	MT/M
4	Galvanized sheets/coils	40000	MT/M
5	Cold rolled sheets/coils	46000	MT/M
6	By Product:- Iron Oxide	225	MT/M

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 203.0 M³.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 130.0 M³.

(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:

Sl. no	Parameter		Limits
1	pH	Between	5.5 to 9.0
2	BOD 3 days 27 Deg. C	Not to exceed	100 mg/l
3	COD	Not to exceed	250 mg/l
4	Oil & Grease	Not to exceed	10 mg/l
5	Suspended Solids	Not to exceed	100 mg/l.
6	TDS	Not to exceed	2100 mg/l.
7	Chlorides	Not to exceed	600 mg/l.
8	Sulphates	Not to exceed	1000 mg/l.

(iv) **Trade Effluent Disposal:** The treated trade effluent shall reused/recycle to the maximum extent, excess if any, shall be used on land for gardening / plantation only. 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.

(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 50 % treated domestic effluent shall be recycled and remaining shall be used on land for gardening / plantation only.

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

Sl. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	MS Scrap	1000	MT/M		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	...	155.00 CMD
(ii) Industrial Processing	...	291.00 CMD
(iii) Industrial Cooling	...	300.00 CMD
(iv) Agriculture / Gardening	...	0.00 CMD

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. Fume extraction system followed by dust collector of sufficient capacity shall be provided to gaseous emissions and all sources of SPM/TPM shall be operated properly & continuously.
2. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

- | | | |
|----------------------|---------------|------------------------|
| (i) SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| (ii) SO ₂ | Not to exceed | 1104 kg/D |

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	500	Litrs/Hr.
2	LPG	1652	Mt/M
3	HSD	50	Litrs/Hr.

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Pickling scrubber	30
2	DG Set (6.5 MVA)	15
3	DG Set (320 KVA X 2 Nos.)	15 each
4	Boiler	21
5	CGL-I Furnace	30
6	CGL-II Furnace	44
7	CCL-Incinerator	30
8	CCL-II thermal Oxidizing	44
9	Acid Recovery Plant (ARP)	52
10	DG Set (1000 KVA)	15

- (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.

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

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

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

Sr. N	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/ spent oil	240	MT/Yr	To auithroised reprocessor
2	5.2 Waste /residue containing oil	60	MT/Yr.	CHWTSDF, Ranjangaon
3	21.1 Wastes and residues	180	MT/Yr.	CHWTSDF, Ranjangaon
4	34.4 Chemical sludge, oil and grease skimming residues	960	MT/Yr.	CHWTSDF, Ranjangaon
5	12.1 Acid Residues	1800	KL/M	Reproces in plant (ARP)
6	33.3 Discarded containers/ barrels/ liners	2000	Nos/M	To authorized reprocessor

- 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.

7. 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.
8. The industry shall provide Environmental Friendly road transportation by adopting mechanical type closed truck for transportation of minerals and metals as well as Ash with effect from 01/04/2012.
9. This is issued with the approval of Consent Appraisal Committee of the Board in its meeting held on 21/09/2011.
10. The Capital investment of the industry is Rs.655.15/-Crs.


(Milind Mhaiskar, IAS)
Member Secretary

To,
M/s. Essar Steel Pvt. Ltd.,
Gat No.740, Sanaswadi, Pune Nagar Road,
Tal- Shirur, Dist - Pune.

Copy to:

- a. RO- Pune /SRO- Pune-II- They are directed to submit the detail report of air pollution control within 1 month period.
- b. CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount	DD No.	Date	Drawn On
1	₹ 32,75,700/-	102514	14/09/2010	SBI Bank
2	₹ 32,75,700/-	627074	31/10/2011	SBI Bank

* Consent fees received as per the revised consent fee GR of Env't. Dept., GoM, dated 25/08/2011.