


# MAHARASHTRA POLLUTION CONTROL BOARD

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BO/JD(APC)/EIC No. RD- 2423-12. IO/CC-CAC

Date: 08/10/2012.

MPCB/2012/10/0093

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 JSW Ispat Steel Limited.,  
(Blast Furnace plant),  
Village: Dolvi, Tal. Pen,  
Dist: Raigad.

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 31.12.2017.

The Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity	UOM
1	Liquid metal/Pig Iron	1,71,420	T/M
2	Electric Power from D.G.	11.81	MW
3	Pulverized Dry Coal	43,200	T/M
4	M.P. Steam	384	T/M
5	Electric Power from Top Gas Recovery Turbine	5.6	MW
<b>By Product</b>			
6	Granulated Slag	51430	T/M

## 2. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not to exceed 287M<sup>3</sup>  
(ii) The daily quantity of sewage effluent from the factory shall not exceed 36.5 M<sup>3</sup>.  
(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	BOD 3 days 27 Deg. C.	Not to exceed	100 mg/l.
3	Suspended Solids	Not to exceed	100 mg/l.
4	TDS	Not to exceed	2400 mg/l
5	COD	Not to exceed	250 mg/l.
6	Oil & Grease	Not to exceed	40 mg/l
7	Chlorides	Not to exceed	600 mg/l.
8	Sulphates	Not to exceed	1000 mg/l.

- (iv) **Trade Effluent Disposal:** The treated effluent shall be recycled up to maximum extent in the process and remaining shall be used on land for gardening. There shall not be any discharge outside the factory premises and in no case trade effluent shall find its way into nearby stream /river.
- (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 27<sup>o</sup> C Not to exceed 100 mg/l.
- (vi) **Sewage Effluent Disposal:** The treated effluent shall be used on land for gardening / plantation only.
- vii) **Other Conditions:**  
1. Industry should monitor effluent quality regularly.

### 3. 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:

Sr.no.		Qty
I	Domestic purpose	82 CMD
II	Industrial Processing	--- CMD
III	Industrial Cooling	10221 CMD
IV	Industrial boiler etc.	---- 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.

#### 4. Non Hazardous Solid wastes-

Sr.No	Type of waste	Quantity	Treatment
1	B.F. Slag	51420 MT/M	Sale to cement plant
2	B. F. Scrap	4500 MT/M	Use for hot strip Mill as a raw material
3	WWT sludge	1600 MT/M	Landfill and sinter making
4	Coke fines	12250 MT/M	Use for sinter making
5	Oxide fines	17500 MT/M	Use for sinter making
6	Sinter fines	35000 MT/M	Use for sinter making
7	Dust from APC	2490 MT/M	Use for sinter making

#### 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:

#### (ii) Control Equipments of sufficient capacity shall be provided at following source of emissions:

1. Fume extraction system followed by dust collector system of sufficient capacity shall be provided to all sources.
2. Suppression system for conveyor system of raw material handling system at blast furnace.
3. Stock house de dusting system.
4. Dust extraction system followed by dust collector shall be provided to pulverized mill hot gas chamber.
5. Dust collector of sufficient capacity to be provided to coal crusher, coal handling unit.
6. Gas cleaning plant for blast furnace emissions.
7. There shall not be any secondary (fugitive) emissions.

#### 6. (A) Standards for Emissions of Air Pollutants:

i	SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup>
ii	SO <sub>2</sub> (process)	Not to exceed	50 ppm
iii	SO <sub>2</sub>	Not to exceed	50 .62 T/Day

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	HSD/LDO	87	T/Day
2	B.F. Gas	86000	M <sup>3</sup> /Hr
3	Coal	1440	MT/Day
4	Coke	3430	MT/Day
5	RLNG	9000	SM <sup>3</sup> /Hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	B.F.Stove	75
2	B.F.Pipeline network	50
3	B.F.slag plant	80
4	Stock house	45
5	D.G.set(11.81 KVA)	68
6	Bag filter pulverized coal plant	61.50
7	Boiler( M. P. steam plant)	59.5

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.

(D) 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.

**E. 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.

**7.CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

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

Sr.No	Item No. of Process generating HW as per Schedule-I	Type of waste	Qty	unit	Disposal
1	5.1	used/spent oil	945	Kg/Day	SPCB/CPCB authorized reprocessor or/CHWTSDF
2	5.2	Residue containing cotton waste	600	Kg/M	CHWTSDF
3	35.1	Oil filters	50	Kg/M	CHWTSDF

(ii) Treatment: - NIL

(iii) The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.

(iv) 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.

**8. Industry shall comply with following general 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 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> 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.

9. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

10 The applicant shall comply with the conditions of the Environmental Clearance granted by MoEF, Gol vide letter No. j-11011/4/96-IA-II dtd. 31.12.1996.

11. The applicant shall submit an irrevocable bank guarantee of Rs.10 lakhs towards operational compliance within 15 days from the date of this consent with validity up to one year period.

12.This consent is issued with the approval of Consent Appraisal Committee Meeting of the Board in its meeting held on 24.09.2012

13.The total Capital investment of the industry is Rs.1141 Crores

For and On Behalf of the  
Maharashtra Pollution Control Board,

(Rajeev Kumar Mital, IAS)  
Member Secretary

To,  
M/s JSW Ispat Steel Limited.,  
(Blast Furnace plant),  
Village: Dolvi, Tal: Pen,  
Dist: Raigad.

Copy to:

- 1) Regional Officer MPCB, Raigad, Navi Mumbai.- They are directed to ensure compliances of consent conditions and obtain bank guarantee of Rs.10 Lakhs from the industry
  - 2) Sub regional Officer -Raigad-II, MPCB, Navi Mumbai.
  - 3) Chief Accounts Officer, MPCB Mumbai
- Received Consent fee as per revised consent Fee GR dated 25.8.2011.

Amount	DD Number	Date	Drawn on
Rs.1,14,14,500/-	172710	27.06.2012	ICICI Bank

- 4) Cess Branch, MPCB.