

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Consent No.: BO/JD (APC)/EIC.No.RD-2345-12/O/CC-CA-522 Date: 18.07.2012.

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. Bhushan Steel Ltd.

Village: Nifan & Savroli

Tal: Khalapur, 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: 31.07.2015.
2. The Consent is valid for the manufacture of –

Sr. No.	Product Name	Maximum Quantity	UOM
1	C.R.Coils	15,000	MT/M
2	G.I. Coils	30,000	MT/M
3	Colour Coils	8,000	MT/M
4	Pipes and Tubes	10,000	MT/M
5	Cable Tapes	2,000	MT/M
6	Captive Power	24	MW
7	API Pipes, Casing pipes, Pipe for low pressure service, Round pipes and Tube for Mechanical and structural pipes and Square structural pipe	23,750	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 270 M³.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 185 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:

1	pH	Between	5.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l
3	BOD ₃ at 27° C	Not to exceed	100 mg/l
4	COD	Not to exceed	250 mg/l
5	Oil & Grease	Not to exceed	10 mg/l
6	TDS	Not to exceed	2100 mg/l
7	Total metal	Not to exceed	10 mg/l
8	Chlorides	Not to exceed	600 mg/l
9	Sulphates	Not to exceed	1000 mg/l
10	Zinc	Not to exceed	5 mg/l
11	Iron	Not to exceed	3 mg/l
12	Total Chromium	Not to exceed	2 mg/l
13	Phosphates	Not to exceed	5 mg/l
14	Chromium Hexavalent	Not to exceed	0.1 mg/l
15	Ammonical Nitrogen	Not to exceed	50 mg/l
16	Total Residual Chlorine	Not to exceed	1 mg/l
17	Cadmium	Not to exceed	2 mg/l
18	Nickel	Not to exceed	3 mg/l
19	Copper	Not to exceed	3 mg/l

- (iv) **Trade Effluent Disposal:** The treated effluent shall be treated by reverse Osmosis with multiple effect evaporator and 100% recycled in the process to achieve Zero Discharge. In no case trade effluent shall find its way in to Patalganga River. 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 treated domestic effluent shall be partly recycled and remaining shall be disposed on land for gardening/plantation only.

(vii) Non-Hazardous Solid Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Metal Scrap	2,500	MT/M	-----	Sale to party
2	Iron Oxide	250	MT/M	-----	Sale to party
3	Empty drums	1000	Nos./M	-----	Sale to party
4	Stip cut pieces	40	MT/M	-----	Sale to party
5	Edge milling scrap	160	MT/M	-----	Sale to party
6	Inside / outside Bead Cutting scrap	200	MT/M	-----	Sale to party
7	Tube/Pipes ends	500	MT/M	-----	Sale to party

(viii) Other Conditions:

- 1) Industry should monitor effluent quality regularly.
 - 2) The industry shall maintain, operate & monitor performance of Reverse Osmosis Plant and Multiple effect Evaporator to achieve the above standards.
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:

Sr. no		Qty
i	Domestic purpose	255.00 CMD
ii	Water gets Polluted & Pollutants are Biodegradable	---- CMD
iii	Water gets Polluted, Pollutant are not Biodegradable & Toxic	340.00 CMD
iv	Industrial Cooling, spraying in mine pits or boiler feed	835.00 CMD
v	Agriculture/Gardening	200.00 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:
 - I. Dust collector of adequate capacity shall be provided to each coating plant to limit the process emissions.
 - II. Fume extraction system of sufficient capacity, wherever necessary, shall be operated, maintained & monitored properly.
 - III. Scrubber of sufficient capacity shall be provided to pickling section, Acid regeneration plant and any other sources of gaseous emission.
 - IV. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants for Pipe and Coil Plants :

Sr.no.	Parameter		Limits
i	SPM/TPM	Not to exceed	150 mg/Nm ³
ii	SO ₂ [Pipe plant]	Not to exceed	21 Kg/day
iii	SO ₂ [Coil plant]	Not to exceed	1400 Kg/day
iv	Acid Mist	Not to exceed	35 mg/Nm ³
v	Lead (Pb)	Not to exceed	10 mg/Nm ³

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	LNG (Pipe Plant)	8000	KL/M
2	LNG(Coil Plant)	60,000	SCM/Day
3	Furnace Oil	150	MT/Day
4	HSD	1	KL/Day

(d) The applicant shall erect the chimneys of following specifications –

Coil Plant

Stack no	Chimany attached to	Heights in meters
<u>Fuel burning</u>		
S-1	Non-ox furnace(Galvanizing-I)	5 (Above Shed)
S-2	Non-ox furnace(Galvanizing-II)	5 (Above Shed)
S-3	Pot Furnace Galvanizing-I	5 (Above Shed)
S-4	RTF Section Galvanizing –II	5 (Above Shed)
S-5	Coater Section(Colour Coating)	5 (Above Shed)
S-6	D.G. and Boiler	110 (Above ground level)
S-7	Sheet Annealing	5 (above ground level)
S-8,9,10,11	Hardening Furnaces	5 (Above Shed)

S-12,13	Tube Annealing	5 (Above Shed)
<u>Process</u>		
S-14	Wider Pickling	5 (Above Shed)
S-15	Narrow Pickling	5 (Above Shed)
S-16,17	6 HI Mills, Wider	5 (Above Shed)
S-18,19,20	4 HI Mills, Narrow	5 (Above Shed)
S-21	Alkali Fumes Scrubber, Wider	5 (Above Shed)
S-22,23	Hot Air Dryers ,Wider	5 (Above Shed)
S-24	Acid Fumes Scrubber, ARP	5 (Above Shed)
S-25	Acid Fume Scrubber, Tube	5 (Above Shed)
S-26	Phosphate Fume Scrubber, Tube	5 (Above Shed)
S-27,28	Lead Bath, Strapping line	5 (Above Shed)
<u>Pipe Plant</u>		
S-29	Coating Plant -1	18
S-30	Coating Plant-2	20
S-31	Coating Plant-3	20
S-32	Coating Plant-4	18
S-33	Pipe Mill-5	18
S-34	Pipe Mill-6	18

- (i) 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.

(ii) 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.

(iii) **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.

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

1. The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	Tank bottom Sludge	0.5	MT/Day	Bio remediation /CPCB registered and MPCB Authorized reprocessor or at CHWTSDF for Incineration.
2	Used oil	0.25	MT /Day	Sale to CPCB registered and MPCB Authorized reprocessor/ Recyclers or CHWTSDF for incineration.

3	Waste oil	2.2	MT /Day	Sale to CPCB registered and MPCB Authorized Reprocessor/ Recyclers or CHWTSDF for incineration.
4	Acid Residue	40	KL/Day	To acid recovery plant(ARP)
5	Sludge from bath containing Toxic metals	1.5	MT/ Month	CHWTSDF for landfill.
6	Sludge from bath containing Organic solvent	0.5	MT/ Month	CHWTSDF for landfill.
7	Chemical sludge from ETP	164	MT/ Month	CHWTSDF for landfill.
8	Waste Thinner	2.6	MT/ Month	Sale to CPCB registered and MPCB Authorized Reprocessor/ Recyclers or CHWTSDF for incineration.
9	Paint residue	0.5	MT/ Month	Sale to CPCB registered and MPCB Authorized Reprocessor/ Recyclers or CHWTSDF for incineration.
10	Zinc /aluminum/ Lead dross	100	MT/ Month	Sale to CPCB registered and MPCB Authorized Reprocessor/ Recyclers .

2. Treatment: - NIL
3. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
4. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.
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. 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.
7. 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.
8. 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.

8. Industry shall comply with following additional conditions:

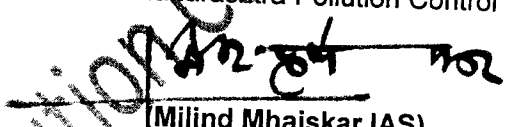
- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. 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.

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 Environment Department , GoM vide letter No.ENV(NOC)2003/410/CR-55/D.I.Dated 31.05.2003.

11. Industry shall submit the irrevocable Bank Guarantee of Rs.5 Lakhs drawn in favour of Regional Officer-MPCB Raigad within 15 days with one year validity towards the compliance of towards operation and maintenance of ETP and Air Pollution Control devices so as to achieve consent standards including Chlorides.
12. The total Capital investment of the industry is Rs. 1903.56 Crores. [C. I. of coil plant is Rs.1042 Crs + C.I. of pipe plant is Rs.861.56 Crs]
13. This consent is issued pursuant to the decision of Consent Appraisal Committee meeting of Board held on 03.07.2012.

For and On Behalf of the
Maharashtra Pollution Control Board,


Milind Mhaikar, IAS)
Member Secretary

To,
M/s. Bhushan Steel Ltd.,
Village: Nifan & Savroji
Tal: Khalapur, Dist: Raigad.

Copy to:

- 1) Regional Officer, MPCB, Raigad, Navi Mumbai. - 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

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

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	33,16,930/-	043405	30.03.2012	Axis Bank
2	22,83,146/-	Excess amount paid by the industry at the time earlier application for consent to operate for expansion of pipe plant.		

4] Cess Branch, MPCB.