

MAHARASHTRA POLLUTION CONTROL BOARD

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 Mumbai - 400 022

Consent order No: - BO/EIC No. RD-2763-14/CAC-CELL/CAC-6193
 Date- /02/2015 25/05/2015

To,
 JSW Steel Ltd (Hot Strip Mill Plant),
 Geetapuram, Dolvi,
 Tal - Pen, District - Raigad
 Maharashtra.

Subject: Renewal of Consent to Operate under RED category.

- Ref : 1. Earlier Consent granted vide no. Format 1.0/BO/ CAC-Cell/EIC No:- RD
 2588-13/18th CAC/CC-459 dated 16/01/2014
 2. Minutes of CAC meeting held on 21.01.2015

Your application: CR1405000310

Dated: 12.05.2014

For: Renewal of 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 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:

- The consent is granted for a period from 01/07/2014 to 30.06.2018.
- The actual capital investment of the industry is Rs. 3466.35 Crs. (As per C. A. Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product Name	By-Product	Maximum Quantity in MTA
1	Hot Rolled Coil		3000000
2	Lime		117000
3	Calcinated Dolomite		108000
4	Oxygen		36000

- 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	3408 CMD	As per Schedule -I	100 % Recycle
2.	Domestic effluent	240 CMD	As per Schedule -I	Reused for gardening after treatment

- Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler, furnace	9	As per Schedule -II
2.	Kiln & De-dusting system etc	4	As per Schedule -II

[Handwritten Signature]

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Skull	100 T/D		Reused in the plant
2	Refractory	40 T/D		Land fill / Reuse
3	Mill Scale	99 T/D		Used as raw material in Sinter plant
4	ETP Sludge	20 T/D		Used as raw material in Sinter plant
5	EAF Slag	1500 T/D		After processing, Metallic slag is being used in Hot strip mill plant & Sinter plant as raw material. Non metallic slag is used for internal road making, land filling in low lying area and stored in designated place. Used as raw material in Sinter plant, Internal road making and stored in designated place for future use.
6	LF Slag	250 T/D		Used as raw material in Sinter plant, Internal road making
7	GCP Dust	200 T/D		Used as raw material in Sinter plant
8	Lime Dust	10 T/D		Used as raw material in Sinter plant
9	Lime Stone Fines	220 T/D		Used as raw material in Sinter plant

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	USED / Spent Oil	5.1	180	KL/Yea r	---	Sale to CPCB/MPCB authorized reprocesses
2	Waste/ Residue Containing Oil (Cotton Waste)	5.2	3600	Kg / Yea	---	Used as fuel in Furnace.
3	Mercury compounds Waste bearing Mercury (Used Tube lights)	A 6	1500 to 2000	Nos/Yr	---	Sold to authorized vendors
4	Oil Filters,	35.1	1200	Kg / Yea	---	Used in Furnace.
5	Empty Paint containers (M.S)		4000 to 5000	Nos. / Yr	---	Used as RM in HSM Plant

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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.

For and on behalf of the
Maharashtra Pollution Control Board

Mirash
21/5/15
(P. K. Mirashe)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD No.	Date	Drawn On
1	The balance consent fees of 4 Years & one month as per consent granted vide dtd 16.01.2014 is considered during this Renewal			

Copy to:

1. Regional Officer -Raigad. He is directed to release the existing BG of Rs. 5/- Lakhs obtained against installation of STP as SRO reported compliance of the same.
2. Sub-Regional Officer- Raigad-II, MPCB. They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation 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 3408 CMD.

B.) The treated effluent shall be 100% recycled in the process to achieve zero discharge. In no case effluent shall find its way for outside factory premises.
- 2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity not mentioned.

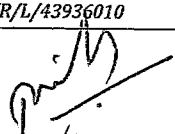
B.] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

(1)	Suspended Solids.	Not to exceed	50	mg/l.
(2)	BOD 3 days 27oC.	Not to exceed	30	mg/l.
(2)	COD.	Not to exceed	100	mg/l.

C.] The treated sewage of 240 CMD shall be disposed on land for 55 Acres for gardening
- 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	15840.00
2.	Domestic purpose	300.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	--
4.	Gardening	300.00

- 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.



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-

S/No.	Stack/Attached	APC System	Height in Mtrs	Type of Fuel	Quantity & UoM	S %	SO ₂ kg/Day
1	Gas Cleaning Plant-1	Bag Filter	70.50				
2	Gas Cleaning Plant-2	Bag Filter	70.50				
3	Gas Cleaning Plant-3	Bag Filter	66.50				
4	Lime stone dedusting system- I	Bag Filter	41.50				
5	Lime dedusting system- II	Bag Filter	25.50				
6	Kiln-I	Bag Filter	48.70				
7	Kiln-II	Bag Filter	48.70				
8	De-dusting System	Bag Filter	30.00				
9	Boiler	Bag Filter	65.00	Coal	75T/D	0.6 %	900
				RLNG	200000 M3/D	Nil	Nil
				FO	53KL/D	4.0 %	4.77
				coke	37T/D	5.0 %	3700
				LDO	151 KL/D	1%	543.6
10	Tunnel Furnace-IA	Stack	50.00				
11	Tunnel Furnace-IB	Stack	50.00				
12	Tunnel Furnace-IIA	Stack	50.00				
12	Tunnel Furnace-IIB	Stack	50.00				

- The dust collection system of adequate capacity shall be provided at all sources of emissions to limit the emissions.
- Fume extraction system followed by scrubber of adequate capacity shall be provided to limit the gaseous emissions.
- The secondary emission control system shall be provided to limit the emissions generated during process of loading of raw material as well as unloading of products.
- 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)
- The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

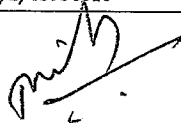
Particulate matter	Not to exceed	100 mg/Nm ³ .
NOx Process	Not to exceed	50 ppm

- 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.
- 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 R (Existing to be extended)	Rs 5.0 Lacs	15 Days	O & M of Pollution Control Systems	30.06.2018	31.10.2018

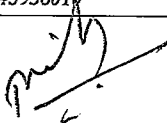
Maharashtra Pollution Control Board



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 if applicable.
- 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 Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th 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 make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) 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).
- 14) 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.
- 15) 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.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- 17) 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.
- 18) 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
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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