

Dolvi Works:

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Dolvi, Taluka - Pen,
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May 27, 2022

JSWSL/COP 2 – 3.5 MTPA/ENV/MoEF&CC/2022

To

The Regional Officer,
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor,
East Wing, New Secretariat Building,
Civil Line, Nagpur - 440001.

Sub: Submission of Six Monthly Compliance report of Environmental Clearance for 3.5 MTPA Coke Oven Plant at JSW Steel Plant Ltd. at Dolvi, Raigad District, Maharashtra (Formerly known as M/s. Dolvi Coke Projects Ltd)

Ref: i) MoEF&CC Letter - F No J-11011/497/2017-IA-II(I) dated 01 /02/2018.

ii) Transfer of Environmental Clearance accorded for 3.5 MTPA Coke oven plant and By-product plant located at Geetapuram, Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 22/11/2021.

Dear Sir,

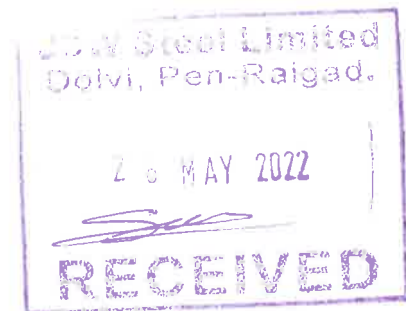
With reference to above, please find enclosed herewith Six Monthly Compliance report of Environmental Clearance for 3.5 MTPA Coke Oven Plant at JSW Steel Ltd. at Dolvi, Raigad District, Maharashtra.

This is for your kind information & record please.

Thanking you,

Yours faithfully,
For JSW Steel Ltd

Dr. Anand Rai
Associate Vice President (Head – Environment)

**CC:**

- 1) The Director, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh, Lodi Road, New Delhi-110003.
- 2) The Zonal officer, CPCB, Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara-390 023, Gujarat.
- 3) The Regional Officer, MPCB, Raigad, Raigad Bhavan, CBD Belapur, Navi Mumbai.

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SIX MONTHLY COMPLIANCE REPORTS OF ENVIRONMENT CLEARANCE CONDITIONS

Sub: 3.5 (1.0+2.5) MTPA Coke Oven and By-product plant – Transfer of 1.0 MTPA Coke oven and by-product plant – from EC of 3 to 5 MTPA and 2.5 MTPA Coke Oven with by-product plant from EC of Expansion of Integrated Steel plant from 5 to 10 MTPA and Power plant from 300 MW to 600 MW (Gas Based) of M/s. JSW Steel Limited in Geetapuram, Village Dolvi, Teshil – Pen, District- Raigad, Maharashtra to M/s Dolvi Coke Projects Limited regarding.

Ref: 1) Environmental Clearance for 3.5 MTPA Coke Oven Plant at Dolvi Coke Projects Ltd. vide letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 01/02/2018.

2) Transfer of Environmental Clearance accorded for 3.5 MTPA Coke oven plant and By-product plant located at Geetapuram, Dolvi from M/s. Dolvi Coke Projects Ltd. To M/s. JSW Steel Ltd vide EC Letter No F.No. IA-J-11011/497/2017-IA-II(I) dated 22/11/2021.

The production facilities after the expansion are given below:

S. No	Technological Facility	EC accorded for Facilities under 5 MTPA	EC accorded for Facilities under 5 to 10 MTPA	Total unit capacities at 10 MTPA	Status as on April 2022
1.	DR1 (Gas based Mega Module)	2.0 MTPA (by augmentation)	2.0 MTPA	4.0 MTPA	<ul style="list-style-type: none">• 2 MTPA plant in operation• 2 MTPA plant under 5-10 MTPA, & technology finalization under progress
2.	Pellet Plant	4.0 MTPA	9.0 MTPA	13.0 MTPA	<ul style="list-style-type: none">• 4 MTPA plant in operation• 9 MTPA plant under 5-10 MTPA, Plant is commissioned and in operation.

3.	Coke Ovens including By-product plant	2.0 MTPA	2.5 MTPA	4.5 MTPA	<ul style="list-style-type: none"> 1.0 MTPA in operation under EC M/s. Amba River Coke Ltd 3.5 MTPA Coke Oven, EC transferred to Dolvi Coke Projects Ltd (DCPL) and further changed as JSW Steel Ltd. <p>2.25 MTPA plant is in operation (Battery A, B & D) Battery C (0.75 MTPA) is commissioned and trial production in progress.</p>
4.	Sinter Plant	2.8+3.2 MTPA	4.0 MTPA	10.0 MTPA	<ul style="list-style-type: none"> 2.8+2.5 MTPA plants are in operation. The 8 MTPA plant under 5-10 MTPA is being amended to 4 MTPA for which amendment done. Technology to be
5.	Blast Furnace including Pig casting	3.6 MTPA (by augmentation)	4.5 MTPA	8.1 MTPA	<ul style="list-style-type: none"> 3.5 MTPA plant in operation 4.5 MTPA plant under 5-10 MTPA, Plant is Commissioned and in operation.
6.	SMS (CONARC)	5.2 MTPA (by augmentation)	--	5.2 MTPA	5.2 MTPA Plant in operation
7.	SMS -BOF	--	6.0 MTPA	6.0 MTPA	Plant is commissioned and in operation.
8.	Ladle Furnace (LF)	2x200t +205t	2X300t	2x200t +205t 2X300t	<ul style="list-style-type: none"> 2x200t +205t LF in operation 2X30t LF under 5-10 MTPA is commissioned and in operation
9.	VD/VOD & RH-TP	1x200t+1x205t	2x300t	1x200t +1x205t 2x300t	<ul style="list-style-type: none"> 1x200t+1x205t in operation 1x200t +1x205t 2x300t under 5-10 MTPA, techno-commercial discussion in progress.
10.	CSP(HRC Coil) Thin Caster-cum-Hot Strip Finishing Train	3.5 MTPA (By Augmenting)	-	3.5 MTPA	3.5 MTPA plant in operation.

11.	Convention al Slab Caster	2x1 strands (3.68 MTPA)	2x2 strands (5.72 MTPA)	Total 6 strands (9.4 MTPA)	<ul style="list-style-type: none"> 2x1 strands (3.68 MTPA) in operation 2x2 strands (5.72 MTPA) under 5-10 MTPA, is commissioned and trial run in progress.
12.	Billet Caster	-	1x6 Strands	6 strands (1.5 MTPA)	1x6 strands (1.5 MTPA) plant in operation.
13.	Plate Mill	1.5 MTPA	-	1.5 MTPA	Technology to be finalised.
14.	CRM (Hot Rolled Skin Pass + Cold Rolled Full Hard Coil + Hot Rolled Pickled & Oiled Coil)	1.0 MTPA	1.5 MTPA	2.5 MTPA	Technology to be finalised.
15.	Galvanizing Line (Cold Rolled Steel Strips, Hot Dip Zinc Coated Full Hard)	0.6 MTPA	-	0.6 MTPA	Technology to be finalised.
16.	Electrical Steel CRGO line	0.4 MTPA	-	0.4 MTPA	Technology to be finalised.
17.	Tin Plate Mill	0.4 MTPA	-	0.4 MTPA	Technology to be finalised.
18.	Colour Coating Plant	0.5 MTPA	-	0.5 MTPA	Technology to be finalised.
19.	Lime/Dolo Plant	1800 TPD	1800 TPD	3600 TPD	<ul style="list-style-type: none"> 1800 TPD plant in operation 1800 TPD plant under 5-10 MTPA, is commissioned and in operation.
20.	Oxygen Plant	4100 TPD	3500 TPD	7600 TPD	<ul style="list-style-type: none"> 4100 TPD plant in operation 3500 TPD plant under 5-10 MTPA is commissioned and in operation.
21.	Hot Rolling Mill with shearing & slitting line	-	5.0 MTPA	5.0 MTPA	5 MTPA plant under 5-10 MTPA, is commissioned and in operation.
22.	Bar Mill	-	1.4 MTPA	1.4 MTPA	1.4 MTPA Plant in operation.

23.	Slag & Clinker Grinding Unit	"	10 MTPA	10 MTPA	EC transferred to JSW Cement Ltd.
24.	Captive Power Plant	300 MW	300 MW	600 MW (based on surplus gases of BF & Coke Oven)+RLN G	<ul style="list-style-type: none"> • 55 MW Gas based CPP in operation. • 175 MW CPP (Gas based) and 70 MW from CDQ under 5 -10 MTPA installation completed and commissioning under progress.
25.	Township	-	150 acres	150 acres	Work not yet started.

Sr. No.	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE STATUS AS ON April 2022
A) Specific Conditions		
i	The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.	<ul style="list-style-type: none"> • Five Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are connected to URL of MPCB & CPCB & data is being transmitted online on real time basis for PM2.5, PM10, SO2, NOx & CO with proper O&M • For existing plants under 5 to 10 MTPA, Continuous Stack Emission Monitoring systems are installed at all major stacks (32 Nos) & connected to URL of MPCB & CPCB & data is being transmitted online on real time basis. • Data on Stack Emission, Ambient Air Quality and Work Environment Air Quality are being submitted to; • MPCB - Once in three months, • MOEF&CC, Nagpur & Delhi – Once in Six month • CPCB, New Delhi – Monthly basis <p>For installation CEMS for plants under 5 to 10 MTPA expansion units, PO issued for all major stacks 33 Stacks (12 Nos Process stacks and 21 Nos Non process stacks). Installation and commissioning work in progress.</p>

ii	<p>The PP should ensure treatment of effluent particularly from Blast Furnace (BF) and Coke Oven plant. The plant should be designed to meet the cyanide standards stipulated by MoEF&CC under EPA Act 1986.</p>	<ul style="list-style-type: none"> • Effluent Treatment Plant has been provided to the existing Blast Furnace 1 (BF1) and Coke Oven plant and are designed to meet the norms. <p>For Expansion project under 5 to 10 MTPA:</p> <ul style="list-style-type: none"> • Effluent Treatment Plant (ETP) has been designed for Blast Furnace, Hot Strip Mill and installation work in progress to meet the norms of effluent standards. • Coke Oven plant II - BOD Plant is installed and commissioned to treat the waste water generated from Coke oven plant. • Centralized Sewage treatment plant for treating the domestic effluent. • The waste water treatment plant has designed to meet the cyanide standards stipulated by MoEF&CC under EPA Act 1986.
iii	<p>The commitment made by the PP for plantation of the green belt to the tune of 655 acres should be expedited. Three rows of green belt, 12-15 meters wide, all along the periphery of the plant should be planted.</p>	<p>As per the EC FJ-11011/76/2013-IA.II(I) dated 16/06/2020, Green belt shall be developed 250 acres in the plant premises and outside the plant 510 acres outside the plant</p> <p>The expansion of the steel plant from 5 to 10 MTPA in contiguous to earlier facilities, Accordingly, Green Belt is being developed in and outside premises as recommended by the EAC, MoEF&CC in the next 5 years once the expansion projects are completed.</p> <p>No of trees planted up to date Big Trees 205816 No Small Trees 624583 No Lawn Development 4204707 Square Feet.</p> <ul style="list-style-type: none"> • Total Plantation inside the plant premises is approximately 84 Acres. • Outside plantation is 124 Acres (50 Hectares) • Mangrove Plantation 766 Acres (310 Hectares) covered. <ul style="list-style-type: none"> • Rs 3.04 Crores spent on Mass plantation drive for a target of One Million tree plantation in and outside the premises & in

		<p>nearby villages is being carried out (2021-22).</p> <ul style="list-style-type: none"> • Rs 6.49 Crores spent on plantation for the year 2021-22 (Up to March 2022). • Programs for making people aware of importance of plantation are being done through Gram-Panchayat.
iv	<p>The CSR plan as submitted by the PP in the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan with respect to the earlier projects and the ongoing project at Dolvi site are very slow in implementation. The CSR activities should be implemented expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.</p>	<p>JSW foundation is the apex organization which is responsible for implementation of CSR activity in and around Dolvi works. JSW foundation is supported by JSW Steel Limited & will be complied.</p> <p>Amount spent on CSR Activities:</p> <p>For 2021-22 (up to March 2021): Rs 48.75 Crores</p> <p>The above amount has been spent on Social Development- (Education & Training), Skill Development, Water and Sanitization, Agriculture, Rural Development, Health, Solid Wastes and Community Development.</p>
v	<p>At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent should prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head should be created and the annual capital and revenue expenditure on various activities of the Plan</p>	<p>CSR activities in various sectors are being done in the surrounding villages and a time bound action plan for various CSR activities have been submitted to MoEF&CC as per EAC recommendation of 2.5% of project cost.</p> <p>The CER activities shall be implemented in accordance with this Ministry's OM vide F.No.22-65/2017-IAIIdated 1st May 2018 within the Project implementation period. A separate budget is incurred under CER activities, which are included in the Budget proposal.</p> <p>Amount spent on CER Activities is Rs 119.86 Crores.</p> <p>The above amount was spent on for Construction of Multi-Speciality Hospital, Construction of Roads in outside the plant premises, and expenditure on Tree plantation in nearby villages (outside the Plant).</p>

	should be submitted as part of the Compliance Report to RO, at Bhopal. The details of the CSR Plan should also be uploaded on the company website and should also be provided in the Annual Report of the company.	
vi	No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.	Development of plant is beyond 100 mtrs from HTL & kept free. Survey was carried out by IRS, Chennai
vii	No waste water will be discharged outside the plant boundary during normal operation. In case it become necessary to discharge effluent meeting norms fit to the marine environment, permission of the relevant authority should be obtained.	No waste water will be discharged outside the plant boundary during normal operation. In case of discharge effluent meeting norms fit to the marine environment, permission of the relevant authority shall be obtained.
viii	No untreated effluent should be reused for any process.	Untreated waste water will not be reused for any process.
ix	Measures should be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50mg/Nm ³ and installing energy efficient technologies in the Plant	For new units under 5 to 10 MTPA all necessary air pollution control devices provided. <ul style="list-style-type: none"> • Raw Material handling area, yard sprinklers, dry fog system, Dust extraction systems provided to control the fugitive emissions. Constructed covered sheds for Raw Material storage purpose. • Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage • Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. • Investment on Yard sprinklers, De-dusting system and Dry fogging system Rs 77.29 Crores • Bag filter, ESPs with adequate capacity has been provided to keep the emission levels below 50mg/Nm³ in all plants (Steel Melting Shop II, Hot Strip Mill II, Blast Furnace II and Lime Calcination Plants 5,6,7) • Stacks of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided as per the requirement. • Energy efficient technologies provided in the Plant like waste heat recovery system, Top gas recovery turbine from Blast furnace and Gas

		<p>Based power plant.</p> <ul style="list-style-type: none"> • All internal roads were made by concrete. • Regular operation of Road Sweeping machines and water sprinkler on road. • Transfer of De-dusting system dusts and other secondary dusts generated from Pollution Control equipment by bulkers. • The transfer of raw material from Jetty to plant is 100 % through belt and pipe conveyors thereby eliminating any chances of fugitive emission through transportation of material from outside plant to the raw material yard there by improving the Ambient Air Quality.
x	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	<ul style="list-style-type: none"> • Five Continuous Ambient Air Quality Monitoring stations have been installed in consultation with MPCB. All these stations are connected to URL of MPCB & CPCB & data is being transmitted online on real time basis for PM2.5, PM10, SO2, NOx & CO with proper O&M • Continuous stack monitoring facilities for (CEMS) shall be provided for 33 Stacks (12 process and 21 Non process stacks). Installation and commissioning work in progress. • Provided sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources will be controlled within the latest permissible limits
xi	Dust suppression system and bag filters should be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points,	<p>Raw Material Handling areas, yard sprinklers, Dry fogging system, dust extraction system provided in the junction houses and transfer points. Installed Covered sheds (4 Nos) for Raw Material storage purpose.</p> <ul style="list-style-type: none"> • Covered shed for Jetty yard-A with a capacity of 110,000MT for Coal Storage • Covered shed for Jetty yard-B with a total capacity of 305,000 MT for Iron Ore and Flux. • Investment on Yard sprinklers, De-dusting system and Dry fogging system Rs 77.29 Crores <p>In Steel melting shop, Blast Furnace, Lime Calcination Plants, Pellet Plant adequate de-dusting systems with ESPs, Bag Filters provided.</p>

xii	<p>Water consumption should not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations. Should be met from rainwater stored in rainwater harvesting structures.</p>	<p>Adequate waste water treatment facilities provided to reduce makeup water consumption. Wherever possible, rain water harvesting system at rooftop shall be implemented.</p> <p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented regarding specific water consumption.</p> <p>The specific water consumption for the year 2021 - 22 was 2.85 m³/t of crude steel which is well below the targets for flat products and as well as for long products.</p> <ul style="list-style-type: none"> • Dry Gas Cleaning plant installed in Blast Furnace. The traditional wet scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW, which will reduce specific water consumption. • Coke Oven Plant – Coke Dry Quenching systems (3 Nos) installed and recover the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. Each CDQ will reduce water consumption by 1920 m³/day and energy of 70 MW will be recovered along which will reduce the CO₂ emissions by approx. 10.9 Lac.t CO₂eq
xiii	<p>Rainwater harvesting scheme should be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains should be de-silted and regular supervision of the areas should be carried out so that blocking of drains may be avoided for quick</p>	<p>Noted and will be complied.</p> <p>Rain Water Harvesting system has been implemented in the existing plant (at 12 various buildings of Oxygen Plant, Coke Oven, Power Plant, MRSS and Admin.) and the same shall be implemented to the expansion projects in phase</p>

	discharge of rainwater. Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement.	manner.
xiv	All the effluents should be treated and reused for dust suppression/green belt development. No effluent should be discharged and 'zero' discharge should be adopted.	<p>Effluent treatment plants provided in Hot Strip Mill and Blast Furnace.</p> <p>ZLD shall be maintained after completion of entire 10 MTPA projects.</p> <p>In case of discharge effluent meeting norms fit to the marine environment, permission of the relevant authority shall be obtained.</p>
xv	Full utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhopal.	<p>The Captive Power plant for the existing and the expansion project are gas based.</p> <p>Hence Fly Ash is not generated in the process. Therefore Fly Ash utilization is not relevant to us.</p>
xvi	Hazardous materials required during construction phase and in plant operations should be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.	<p>No Hazardous material used in the plant during construction phase and in plant operation phase</p> <p>The hazardous wastes generated from the plant shall be stored in designated place and disposed to authorized recyclers as per the Hazardous Wastes (Management and Handling and transboundary) guidelines and MPCB consent conditions.</p> <p>The records shall be maintained as per the guidelines.</p>
xvii	Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.	The vehicle and construction machineries PUCs are properly checked at Main gate before entering the plant.
xviii	Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.	Risk & Disaster Management plan has been prepared and submitted to MoEF&CC, New Delhi along with EIA.
xix	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be complied as per the guidelines.

		<p>The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants are implemented.</p> <ul style="list-style-type: none"> • Dry Gas Cleaning plant installed in Blast Furnace. The traditional wet scrubbing process has high pressure drop due which the energy recovery is low (14 MW) but the bag filter has low pressure drop thus has high energy to recovery (36 MW), by using Dry GCP process the energy recovery has increase approx. of 22 MW, which will reduce CO₂ emissions by approx. 1.4 Lac.tCO₂eq. This system saves specific water consumption. • Installed Gas Holders (Coke Oven Gas and LD Gas) which helps the steady network flow for distribution of gas in constant pressure (Operating pressure 996 mmWC). Also it helps to proper utilization of waste gases. It saves CO₂ and Energy. • Coke oven plant – Tar sludge / ETP sludge are reused in the Coking process. • Blast Furnace TRT – Energy recovery of top blast furnace gas is being done with power generation through TRT by using top pressure of BF gas. • Coke Oven Plant – Coke Dry Quenching systems (3 Nos) installed and recover the sensible heat of red hot coke, reduce energy consumption and pollution and improve the quality of coke. Each CDQ will reduce water consumption by 1920 m³/day and energy of 70 MW will be recovered along which will reduce the CO₂ emissions by approx. 10.9 Lac.t CO₂eq • Steel Melting Shop (SMS), secondary de-dusting system (Gas Cleaning Plants 4 Nos) has been installed to control fugitive emissions • Coal Injection Plant for direct injection of pulverized coal in furnace has been implemented. Present rate of CDI in our Blast Furnace is 150 Kg/THM (average for the year 2021-22).
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		<ul style="list-style-type: none"> • BF Slag- 100% utilized in Cement plant. • EAF slag- 100 % for construction activities for expansion projects by land filling in the low lying areas and is also being used for internal road making. • Cast House Fume extraction system inclusive of tap holes, runners, skimmers, ladle and charging points have been provided to control Fugitive emissions from Blast Furnace.
xx	All the commitments made to the public during public hearing/public consultation should be satisfactorily implemented and adequate budget provision should be made accordingly.	<p>Noted & shall be complied Separate budget is maintained for implementing the projects/ issues as discussed during Public Hearing.</p> <p>CSR activities in various sectors are being done in the surrounding villages and a time bound action plan for various CSR activities have been submitted to MoEF&CC as per EAC recommendation of 2.5% of project cost.</p> <p>JSW Steel has spent CSR activities for the year 2021-22 (up to March 2021): Rs 48.75 Crores The above amount has been spent on Social Development- (Education & Training), Skill Development, Water and Sanitization, Agriculture, Rural Development, Health, Solid Wastes and Community Development.</p>
xxi	All the permanent workers should be covered under ESI Scheme. The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. should be conducted amongst the employees of the Company.	<p>Noted & shall be complied as per earlier practice. As per the Factories Act, regular health checkups have been done for workers and employees & records are maintained on regular basis.</p> <p>Annual Medical Check-up conducted for medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. shall be conducted amongst the employees of the Company</p>
B) General Conditions		
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	<p>Consent to Establish and Consent to operate received from Maharashtra Pollution Control Board.</p> <p>The guidelines given by Maharashtra Pollution Control Board (MPCB) and State Government are being followed time to time.</p>

		The plant is regularly complying the Consent conditions.
ii	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and being complied
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	<p>Already 5 Nos. online Ambient Air Quality Monitoring Station Installed with consultation of MPCB & data connected to MPCB & CPCB Website.</p> <p>The Environment monitoring reports on air, water and stack emissions are submitted to MPCB, CPCB and MoEFCC as per the conditions in EC and CTO.</p>
iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 313' December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	<p>Noted & will be complied.</p> <p>Separate waste water treatment facilities have been provided to treat the industrial waste water.</p> <p>The treated water shall be reused in the plant process and slag quenching purpose.</p> <p>Treated Sewage water is used for plantation purpose.</p>
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	<p>Overall noise levels in and around the plant area will be maintained well within the standards (85 dBA).</p> <p>Ambient noise levels shall be monitored and maintained as prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).</p>
vi	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	As per the Factories Act, regular health checkups have done for workers and employees & records are maintained on regular basis.

vii	The company should develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Noted and shall be complied. Rain Water Harvesting system has been implemented in the existing plant (at 12 various buildings of Oxygen Plant, Coke Oven, Power Plant, MRSS and Admin.) and shall be extended to the expansion projects
viii	The project proponent should also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	All Environment Protection measures have been taken and undertaking the community development program in nearby villages and same shall be continued for expansion projects. Amount spent on CSR Activities: For the year 2020-21: Rs 32.001 Crores For the year 2021-22 (up to Sept 2021): Rs 28.715 Crores The above amount has been spent on Social Development- (Education & Training), Skill Development, Drinking water supply, Sanitization, Agriculture, Rural Development, Health, Solid Wastes, Self help group and Community Development.
ix	Requisite funds should be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein should be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided should not be diverted for any other purpose.	For expansion projects sufficient fund earmarked towards Environment and Pollution Control Measures. Approximately Rs 806 Crores spent as investment on Pollution Control System (Air, Water and Solid wastes). Also adequate fund allocated for operation and maintenance of Pollution Control Systems. The funds allocated will not divert for any other purpose.
x	A copy of clearance letter should be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter should also be put on the web site of the company by the proponent.	A copy of clearance letter is already submitted to concerned Panchayat, Zillah Parishad/Municipal Corporation, Urban Local Body and the local NGO. The clearance letter already put on the JSW Steel web site.

xi	<p>The project proponent should upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and should update the same periodically. It should simultaneously be sent to the Regional Office of the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects should be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Complied.</p> <p>The status of compliance of the stipulated environment clearance conditions, including results of monitoring data are being uploaded on JSW Steel website on six monthly basis.</p> <p>The EC compliance report and Environmental monitoring reports (for Air, Water, Solid Waste and Hazardous wastes) are submitted to MoEFCC, CPCB, and MPCB on six monthly basis.</p> <p>The CEMS data and CAAQMS data are displayed at the main gate.</p>
xii	<p>The project proponent should also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / CPCB / SPCB should monitor the stipulated conditions.</p>	<p>The six monthly Environmental Clearance compliance report and six monthly Environmental monitoring reports are submitted to Regional Office of MoEFCC, MPCB and CPCB.</p>
xiii	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, should also be put on the website of the company along with the status of compliance of environmental conditions and should also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.</p>	<p>Environment Statement shall be prepared and submitted to MPCB, MoEFCC and uploaded on the company website for existing plants.</p> <p>For new plants under 5 to 10 MTPA expansion, the Environment Statement shall be prepared and submitted after operation of the plants.</p>
xiv	<p>The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at</p>	<p>Published in newspaper as per guidelines namely in Local newspaper Dainik Krushiwal, Raigad Times, Ramprahar dated August 30, 2015 and English newspaper Indian Express dated September 01, 2015. Hence this point is complied.</p>

	http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one should be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.	
xv	Project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Already intimated to Ministry for date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
14	M/s. Dolvi Coke Projects Ltd shall abide by all the commitments and recommendations made in the EIA /EMP report and that during presentation to the EAC; commitments made during the Public Hearing held on 28/01/2014 for integrated steel plant	JSW Shall comply the Conditions as per the commitments made during Public Hearing.
15	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
16	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
17	The PP shall ensure no change in the pollution load; and no conflict in sharing in common facilities in day to day operations.	As per the amendment in the EC dated 22 November 2021, JSW Steel will not any change in pollution load.
18	All the liabilities regarding environmental issues of Coke Ovens including by-product plant will be the responsibility of the new company i.e Dolvi Coke Projects Limited	As per the amendment in the EC dated 22 November 2021, JSW Steel Ltd shall comply all the Environmental issues of Coke Oven plant II
19	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008 and the Public (Insurance) Liability Act 1991 along with their amendments and Rules.	As per the amendment in the EC dated 22 November 2021, JSW Steel Ltd shall regularly be complying for <ul style="list-style-type: none"> • The water (Prevention& Control of Pollution) Act 1974, • The Air (Prevention and Control of Pollution) Act, 1981 • The Environment (Protection) Act 1986 • The Public Liability Insurance Act, 1991 along with their amendments and rules.
20	This Environmental Clearance is partial modification of the J-11011/76/2013-IA II (I)	Noted

	dated 25th August 2015.	
21	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green tribunal Act 2010.	Noted and shall be complied

