



Vijayanagar Works :

Regd: Room No. 8/, First Floor, HSM 1 Old Lab, JSW Steel Ltd, Toranagallu - 583 275.

Correspondence : F&A, Dept. HRD Building, JSW Steel Ltd, P.O. Vidyanagar - 583275. Toranagallu. Dist. Bellary, Karnataka, India.

CIN. : U27300MH2019PLC334944

Phone : +91 8395 250 120-30

Fax : +91 8395 250 131/142

Website : www.jsw.in

JVML/ENV/MoEFCC/EC-COMPL/F016/112024/

Date: 28.11.2024

To,

The Addl. Principal Chief Conservator of Forest(C)

Ministry of Environment, Forest & Climate Change

Regional Office (South Zone), 4th floor,

E&F wings, Kendriya Sadan, 17th Main Road,

2nd block Koramanagala, Bangaluru-560034

Sub: Submission of Half Yearly EC Compliance report of Our Integrated Steel Plant for the period of Apr-24 to Sep-24

Ref:

- Split of existing EC of JSW Steel Ltd, Vijayanagar works of 18 MTPA Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between JSWSL, JVML and JSWCL, With a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit will remain for JSW Steel Limited, Transfer of 5 MTPA Steel to JVML and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of JSWCL at Vijayanagar works, Toranagallu, Ballari, Karnataka*

Dear Sir,

With respect to the subjected matter, we are herewith submitting the Half Yearly EC Compliance report for our integrated Steel Plant, JSW Vijayanagar Metallics Limited JVML, Vijayanagar Works located at Toranagallu, Dist. Ballari, Karnataka for the period of **Apr 2024 to Sep 2024**.

Further, we would like to inform you that, we have uploaded the soft copy of EC Compliance report on the Parivesh 2.0 Portal.

Submitted for your kind information and record please.

Thanking your,

Yours Faithfully

Authorized Signatory

For **M/s JSW Vijayanagar Metallics Limited**


Dr. Satish Mishra

Associate Vice President

Head-Environment & Sustainability Department

CC:

- The Member Secretary, IA.II(I) Ministry of Environment and Forests, IA Division, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003
- The Member Secretary, KSPCB, Parisara Bhavan, 1st to 5th floor, #49, Churuch Street, Bengaluru
- The Environmental Officer, KSPCB, Regional Office, 4th Main, Kuvempunagara, Bellary-583104
- Regional Director, CPCB, A-Block, Nisarga Bhavan 1st & 2nd Floor, 7th D Cross, Thimmaiah Road, Shivaji Nagar, Bengaluru – 560079.



Regd. Office :

5th Floor, JSW Centre

Bandra Kurla Complex,



Branch (East), Mumbai - 400 051


Split of existing EC of JSW Steel Ltd, Vijayanagar works of 18 MTPA Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between JSWSL, JVML and JSWCL, With a final configuration of 13 MTPA Steel, 1490 MW of CPP and 0.2 MTPA Slag cement unit will remain for JSW Steel Limited, Transfer of 5 MTPA Steel to JVML and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of JSWCL at Vijayanagar works, Toranagallu, Ballari, Karnataka- Splitting of EC to M/s. JSW VIJAYANAGAR METALLICS LIMITED.

EC Identification No. EC24A1001KA5580178S and File No. J-11011/489/2009-IA.II (I) Dated 25/07/2024

Compliance Period: April 2024 to September 2024

S.No.	Conditions	Compliance
Specific Conditions		
i.	Green belt shall be developed in 33% (111.3 ha) of the plant area (337.1 ha) all along the periphery of the project site by September 2024 with a tree density of 2500 trees per hectare.	Complied <ul style="list-style-type: none"> JSW Vijayanagar Metallics Limited has planted 2.80 lakhs plants over 112 ha area to cover 33 % of area under green belt with the tree density of 2500 trees per hectare. Details of the plantation and the photographs are enclosed as Annexure -01
ii.	Project proponent shall install closed and covered silos/hoppers/bunkers for coal storage.	Being Complied <ul style="list-style-type: none"> The proposal for coverage of coal storage area is in JSWSL premises. Presently the coal stock piles are covered with tarpaulin sheets for immediate control. Design of Cover sheds has been completed.
iii.	Ambient air quality shall be improved by adopting measures like use of by product gas in place of coal.	Being Complied <ul style="list-style-type: none"> By product gases like BF gas, Corex Gas, Coke oven gases are being used as fuel in the process (Blast furnace stove, under firing of coke oven batteries, reheating furnace etc.) and also for power generation, thereby reducing the significant coal consumption, Hence improving the Ambient air quality.
iv.	Environment Clearance for the new township project shall be obtained from the concerned competent authority.	Noted

v.	<p>Project proponent shall install 1 Continuous Ambient Air Quality Monitoring Stations (CAAQMS) by 31-12-2024.</p>	<p>Complied</p> <ul style="list-style-type: none"> • 1 no of CAAQMS Station has been installed within JVML plant boundary besides OP Jindal centre. • This is in addition to 6 CAAQMS installed by JSWSL • The data of the CAAQMS is being transferred to CPCB & KSPCB servers. 
vi.	<p>Following Cleaner technologies shall be adopted by PP:</p> <p>a) High efficiency ESP in Sinter plants to control emissions</p> <p>b) Sinter cooler waste heat utilization in Sinter Plant</p> <p>c) Dry gas cleaning in BF & BOF converters</p> <p>d) TRT and Stove waste gas heat recovery system in BF</p> <p>e) Secondary Fume Extraction system in BOF with dog houses</p> <p>f) Independent FES for LRF</p>	<p>Complied</p> <p>a. We have installed the High efficiency Electrostatic Precipitator (ESP) in Sinter plant SP-5 with PM emission within limits.</p> <p>b. Sinter cooler waste heat recovery is provided in SP-5 to generate power from waste heat.</p> <p>c. WE have provided the Dry GCP processing in SMS4. Due to technological compulsion, wet GCP is provided in BF5 along with complete ETP/ZLD system for gas cleaning.</p> <p>d. We have provided TRT and stove waste gas recovery system in BF5.</p> <p>e. We have provided the secondary dedusting system(FES)with dog house system in BOF of SMS-4</p> 

		f. We have provided an Independent Fume extraction system (FES) for LRF of SMS4.
vii.	100% solid waste utilization by means of 1. Utilization of dust, mill scales and sludge in Sinter Plant 2. BF slag will be utilized in Cement of JSWCL. 3. Steel slag will be utilized in slag processing plant of JSWSL.	Compliance: <ul style="list-style-type: none"> • We are utilizing 100 % solid waste i.e dust ,mill scales and sludge in Sinter Plant • BF Slag is being sold to JSWCL and other cement industry. • The steel slag is being utilized 100% in slag processing plant of JSWSL
viii.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project	Compliance: Noted and agreed
ix.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 01 No. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment(Protection) Act, 1986 or NABL accredited laboratories.	Complied <ul style="list-style-type: none"> • 1 no of CAAQMS Station has been installed within JVML plant boundary besides OP Jindal centre. • This is in addition to 6 CAAQMS installed by JSWSL • The data of the CAAQMS is being transferred to CPCB & KSPCB servers. 

x.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied <ul style="list-style-type: none"> Fugitive emissions are being regularly monitored through NABL accredited laboratory on monthly basis. Report is being submitted every month to KSPCB. The Fugitive emission monitoring data during the compliance period is enclosed as Annexure – 02. 						
xi.	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions	Complied <ul style="list-style-type: none"> The sampling facility are provided at process stacks and quenching stacks as per CPCB guidelines 						
xii.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied <ul style="list-style-type: none"> We have installed efficient air pollution control (APC) equipment for all dust generating points, the summary of APC as follows <table border="1"> <tr> <td>Bag filter</td> <td>8 no</td> </tr> <tr> <td>Scrubber/Cyclone</td> <td>1 no</td> </tr> <tr> <td>ESP</td> <td>1 no</td> </tr> </table> We maintaining the stack emission & fugitive emissions within standard limits. We are submitting the online stack emission monitoring data at KSPCB & CPCB server. In addition to this, we are monitoring manual stack emission on monthly basis. Stack emission monitoring data for the compliance period is enclosed as Annexure -02. 	Bag filter	8 no	Scrubber/Cyclone	1 no	ESP	1 no
Bag filter	8 no							
Scrubber/Cyclone	1 no							
ESP	1 no							
xiii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied <ul style="list-style-type: none"> Bag leakage detection system provided and PLC based bag cleaning system are installed. Regular maintenance of these bag filters is being done to assure the emission norms. 						
xiv.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied <ul style="list-style-type: none"> We have deployed 04 Nos of vacuum cleaners cum Road sweeping machine for road cleaning and shop floor cleaning. 						
xv.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	Complied: <ul style="list-style-type: none"> The Recycle and reuse of iron ore fines, coal and coke fines and other fines collected from Pollution controlling devices and vacuum cleaning devices is being used in the steel manufacturing process after briquetting or agglomeration 						

xvi.	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Complied <ul style="list-style-type: none"> • Tarpaulin covered trucks are provided to transport the raw material.
xvii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Complied <ul style="list-style-type: none"> • Wind shelter fence has been provided in the iron ore and coal storage yard. • We have provided the chemical spraying systems at the raw material stock piles.

xviii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars	Complied <ul style="list-style-type: none"> Adequate ventilation system is provided at all confined areas as per the Norms.
B. GENERAL CONDITIONS:		
i.	<p>The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	Complied <ul style="list-style-type: none"> We have installed online effluent quality monitoring systems for monitoring pH, conductivity and flow. The effluent quality monitoring stations are connected to CPCB & KSPCB server. The equipments are being calibrated on quarterly basis as per manufacturer recommendations.
ii.	<p>The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of Piezometers/sampling wells in the planed and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.</p>	Complied <ul style="list-style-type: none"> The environmental quality of ground water is monitored through MoEF accredited laboratory and reports are submitted on monthly basis regularly to the KSPCB.
iii.	<p>Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.</p>	Complied <p>We have provided 01 (One) no. of Sewage treatment plant for the treatment of the domestic sewage generated from the Plant.</p> <p>1 (One) STP has been commissioned by JVML of 65 KLD capacity with MBR Technology.</p>

iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied <ul style="list-style-type: none"> Garland drains and collection pits have been provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.
V.	Tyre washing facilities shall be maintained at the entrance of the plant gates	Complied <ul style="list-style-type: none"> Tyre washing facilities have been provided at the entrance.
vi.	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Complied <ul style="list-style-type: none"> We have provided water meters at the inlet to all unit processes in the steel plant.
vii.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied <ul style="list-style-type: none"> The noise levels are being monitored on monthly basis and reports are being submitted to the KSPCB on monthly basis. The noise monitoring report are being submitted to the MoEFCC Regional office along with six month compliance report regularly. The Ambient Noise Monitoring data for the compliance period is Enclosed as Annexure 02
viii.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Complied <ul style="list-style-type: none"> Torpedo ladles are being used for hot transfer of the hot metal from the Blast Furnace to the BOF.
ix.	Restrict Gas flaring to < 1%.	Complied <ul style="list-style-type: none"> We have maintained the gas flaring less than 1%.

x.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Complied <ul style="list-style-type: none"> We have installed 225 MW solar power plant at Rajapura & Thimmalapura village In addition to this 70 KW roof top solar plant is provided at Sanjeevani Hospital.
xi.	Provide LED lights in their offices and residential areas.	Complied <ul style="list-style-type: none"> We have installed LED lights in offices, work areas and colonies
xii.	Ensure installation of regenerative/recuperative type burners on all reheating furnaces.	Complied <ul style="list-style-type: none"> Recuperative type burners are provided in all the reheating furnaces
xiii.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Complied <ul style="list-style-type: none"> Oil collection trays are being provided at oil handling area. In addition to this, secondary containers are provided at the oil storage area to avoid the spillages.
xiv.	Kitchen waste shall be composted or converted to biogas for further use.	Complied <ul style="list-style-type: none"> 1 TPD Biogas plants has been installed for processing the food waste
xv.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Complied <ul style="list-style-type: none"> We have prepared the GHG emission inventory of the plant which is being monitored and reviewed by top management on regular basis. We have target to reduce the specific CO₂ emission levels by 31% of emission by year 2030 from present 2.63 TCo₂/tcs level.


xvi.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied. <ul style="list-style-type: none"> We have prepared the onsite emergency and Disaster management as per the requirement of factor act which is being approved by the Karnataka State Dept. of Factories & Boilers. Further periodic mock drills are being conducted on regular basis for the identified emergencies.
xvii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Complied. <ul style="list-style-type: none"> The heat stress analysis of workers is being carried out regularly for people working in heat zone area.
xviii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied. <ul style="list-style-type: none"> Periodical health checkup of workers is being carried out as per the factory acts and record is being maintained at occupational Health Care Centre.
xix.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation /violation of the environmental / forest / wildlife norms / conditions and / or shareholder's / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied <ul style="list-style-type: none"> We have implemented and operating international standard for environment i.e ISO 14001 Environmental Management System. We have Environmental policy as stipulated.

xx.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied <ul style="list-style-type: none"> We have dedicated environmental management department with the qualified staff at Vijayanagar Works and Company Head office Level. At Vijayanagar, 21 number of professionals reporting to Associate Vice President for operation of environmental management.
xxi.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied <ul style="list-style-type: none"> Newspaper advertisement for grant of EC has been published in Kannada Nudi & The New Indian Express in Kannada and English language respectively. Copy of the New paper cutting enclosed as Annexure 03 The copy of EC has been uploaded on JSW Website which can be access on : https://www.jsw.in/investors/steel/jsw-steel-investor-information-environmental-clearances
xxii.	The copies of the environmental clearance along with salient features of the project shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	Complied <ul style="list-style-type: none"> We have submitted the EC copy to Panchayat offices in stipulated time.
xxiii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied <ul style="list-style-type: none"> We have uploaded the Half yearly EC Compliance status report including the monitoring data on the JSW website.

xxiv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied <ul style="list-style-type: none"> • Critical sectorial parameters like PM10, SOx, NOx etc are being monitored online. • The online Stack Emission, effluent quality and Ambient Air Quality Monitoring data are being displayed through LED board at JVML main gate & website which is available for the public.
xxv.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted and agreed <ul style="list-style-type: none"> • JVML is being submitting the six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
xxvi.	The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted and agreed <ul style="list-style-type: none"> • Environmental statement in Form V is being submitted every year to the SPCB.
xxvii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and agreed
xxviii.	The project proponent shall abide by all the commitments and recommendations made in the Environmental appraisal report and during presentation to the Expert Appraisal Committee.	Noted and agreed
xxix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted and agreed <ul style="list-style-type: none"> • No further Expansion and modification will be done without prior approval from the MoEFCC and State Pollution control Board.

xxx.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and agreed
xxxi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed
xxxii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and agreed
xxxiii.	The RO of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted and agreed <ul style="list-style-type: none"> • We will provide the cooperation and support to the Officers of Regional officer as and when required.
xxxiv.	Any Appeal against the 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 agreed

ADDITIONAL SPECIFIC CONDITION:

S.NO.	ADDITIONAL SPECIFIC CONDITION	COMPLIANCE
i.	The PP shall install the requisite number of CAAQMS linked with CPCB server at designated places.	Complied <ul style="list-style-type: none">• 1 no of CAAQMS Station has been installed within JVML plant boundary besides OP Jindal centre.• This is in addition to 6 CAAQMS installed by JSWSL• The data of the CAAQMS is being transferred to CPCB & KSPCB servers. 
ii.	JVML shall undertake Village Adoption programme as committed.	Being Complied <ul style="list-style-type: none">• 10 Villages of Core Zone have been adopted by JSWSL, JVML and JSWCL - Nagalapura, Anathapura, Chikantapura, Kodalu, Basapura, Talur, Madapura, Daroji, Joga, Lingadahalli.• Activities planned in the adopted village are health care, education, woman empowerment, sanitation, sports, infrastructure , skill development, Environment management etc.
iii.	The proposed logistics hub and truck parking yard is close to Toranagallu village, proper care must be taken to mitigate possible impacts, including wider multilayered plantation and other fugitive dust arresting measures.	Being Complied <ul style="list-style-type: none">• Truck parking yard is provided with all the mitigative measures, including wider multilayered plantation and water sprinkling systems at the parking yard• In addition to this, Tarpaulin covered trucks are provided to transport the raw material so as to minimize the fugitive dust emissions.

iv.	All stockyards shall have impervious flooring and shall be equipped with dust suppression. Stock yards shall also have garland drains to trap the run off material.	Complied <ul style="list-style-type: none"> • All Stockyards are provided with impervious flooring and equipped with dust suppression. • Stock yards also have garland drains to trap the run off material.
v.	Raw materials like sinter, pellets, coke etc. shall obtained through conveyer belt from JSWSL.	Being Complied <ul style="list-style-type: none"> • For JVML, Raw materials like sinter, pellets, coke etc. is BEING obtained through Conveyor belt from JSWSL.
vi.	JVML Shall operate two ETP and one STP independently.	Being Complied <ul style="list-style-type: none"> • JVML is operating two ETPs and one STP independently to treat its effluent and sewage. • Monitoring reports for the compliance period is attached as Annexure 02
vii.	80% of the finished goods shall be transported through Railways.	Complied <p>We are transporting 80 % of the finished goods through Railways</p>

Details of additional species planted in the green belt of JVML Plant area							
Location	Plant Species	Local/Hindi Name	Height (m)	Type	No of Sapling planted as part of Gap plantation in existing GB of 93.5 ha	No of Sapling planted as Additional Plantation condition in 17.8 ha	Total no. of additional plantation done
1st Layer	Bauhinia variegata	Kachnar	5m	Tree	-	350	350
	Bougainvillea spectabilis	Bougainvillea	5m	Shrub	-	1300	1300
	Conocarpus lancifolius	Buttonwood tree	5m	Tree	-	700	700
	Hibiscus rosa-sinensis	Jasud	5m	Shrub	-	350	350
	Nerium indicum	Kaner	5m	Shrub	-	350	350
	Nyctanthes arbor-tristis	Parijatha	5m	Tree	-	350	350
	Pongamia pinnata	Karanj	6m	Tree	-	350	350
	Thespesia populnea	Paras Pipal	10 m	Tree	-	1400	1400
	Saraca asoka	Asoka	9m	Tree	-	350	350
	Acacia catechu	kattha	10m-15m	Tree	65	860	925
2nd Layer	Alstonia scholaris	Chitvan	10m-15m	Tree	65	860	925
	Bauhinia tomentosa	Safed Kachanar	10m-15m	Tree	65	860	925
	Butea monoperma	Flame of the forest	10m-15m	Tree	65	860	925

	Calophyllum inophyllum	Honne	10m-15m	Tree	65	860	925
	Cassia fistula	Amltas	10m-15m	Tree	65	860	925
	Cassia Siamea	Simethangadi	10m-15m	Tree	65	860	925
	Ficus benjamina	Pukar	10m-15m	Tree	65	860	925
	figus infectoria	Juvvi	10m-15m	Tree	65	860	925
	Ficus religiosa		10m-15m	Tree	65	860	925
	Ficus septica.	Doomar	10m-15m	Tree	65	860	925
	Gamellia arborea	Gamhar	10m-15m	Tree	65	860	925
	Jacaranda mamisofolia	Neel Kanth	10m-15m	Tree	65	860	925
	Millingtonia hortensis	Neem Chameli	10m-15m	Tree	60	860	920
	Mimusops elengi	Bakul	10m-15m	Tree	60	860	920
	Pterocarpus marsupium	Volle honne	10m-15m	Tree	60	860	920
	Spathodea campanulata	Neerukayi Mara	10m-15m	Tree	60	860	920
	Terminalia Kattapa	badam	10m-15m	Tree	60	860	920
	3rd Layer	Madhuca longifolia	Mahua	15m-20 m	Tree	95	1470
Aegle marmelos		Bhel	15m-20 m	Tree	95	1470	1565
Azadirachta indica		Neem	15m-20 m	Tree	95	1470	1565

Bombax ceiba	Malabar silk cotton tree	15m-20 m	Tree	95	1470	1565
Dalbergia latifolia	bette mara	15m-20 m	Tree	95	1470	1565
Dalbergia sisso	Seesham	15m-20 m	Tree	95	1470	1565
Ficus bengalensis		15m-20 m	Tree	95	1470	1565
Ficus benjamina		15m-20 m	Tree	95	1470	1565
Ficus Sycomoris	Clustered fig	15m-20 m	Tree	95	1470	1565
Ficus infectoria	Pilkhan	15m-20 m	Tree	95	1470	1565
Madhuca insignis	ippe mara	15m-20 m	Tree	95	1470	1565
Syzygium cumini	Jamun	15m-20 m	Tree	95	1470	1565
Terminalia Arjuna	Arjuna	15m-20 m	Tree	95	1470	1565
Terminalia chebula	Harad"	15m-20 m	Tree	90	1470	1565
Terminalia mentalis	Badam	15m-20 m	Tree	90	1470	1565
Toona Ciliata	Indian Mahogany	15m-20 m	Tree	90	1470	1565
TOTAL				2650	44500	47152

Existing Plantation in 93.5 ha	231,100	nos
Gap Plantation done in 93.5 ha	2,650	nos
Plantation done in 17.8 ha @2500 tree/ha	44,500	nos
Additional plantation considering Mortality rate of 10%	4,715	nos
Total Plantation In JVML as on date in 111.3 ha	278,250	nos

Plantation Photographs inside the plant premises





Environmental Quality Monitoring Summary (Aug 2024 to Sep 2024)

Ambient Air Quality Monitoring Results at Nearby Villages: 24 Hrs Average (Aug-Sep 2024)

Month	LOCATION	Norms(Daily Average)	Hampi	Gadi ganur	Kure kupa	Kudi thini	Torana gallu	Vaddu	Sulthanpur	Basa pur	Vidya nagar	Talur	Karadi dhama
Aug-24	PM ₁₀ (µg/m ³)	100	45	41	49.2	51	43	41.5	56.8	40.7	44.3	46	47
	PM _{2.5} (µg/m ³)	60	18	16.4	19.6	20.4	17.2	16.6	22.7	16.3	22.15	18.4	18.8
	SO ₂ (µg/m ³)	80	10.8	12.8	12.9	12.1	13.2	13.5	13.1	12.7	11.2	11.8	13
	NO ₂ (µg/m ³)	80	11.7	13.5	14.9	13.7	15.2	16.4	12.6	15.1	16.9	14	13.9
Sep-24	PM ₁₀ (µg/m ³)	100	44.9	42	50.2	49.6	45	42.5	59.8	42.7	43.5	45	46
	PM _{2.5} (µg/m ³)	60	17.9	16.8	20	19.8	18	17	23.9	17.08	17.4	18	18.4
	SO ₂ (µg/m ³)	80	11	11.4	12.4	12.6	13.5	13.2	12.8	12.2	11.8	11.8	12.1
	NO ₂ (µg/m ³)	80	12.1	12.4	13.5	13.9	16.3	15.1	11.5	15.9	17.1	13.6	13.2

Effluent Treatment Plant ETP monitoring data (Aug 2024 to Sep 2024)

Month		Aug-24		Sep-24	
Parameters	Limits as per CFO	Hot Strip Mill HSM3	Blast Furnace BF5	Hot Strip Mill HSM3	Blast Furnace BF5
pH	5.5-9.0	7.1	7.9	7.21	7.53
Total Suspended Solids, mg/L	<100	12	21	19	22
Conductivity Micro Ohms/cm	<2250	1629	1378	1612	1489
BOD, mg/L	<100	3	6	3	7
Oil & Grease, mg/L	<10	1	1	1.8	1

Sewage Treatment Plant STP monitoring data (Aug 2024 to Sep 2024)

S.No	Parameters	Limits	Aug-24	Sep-24
1	pH	6.5-9	7.9	7.88
2	TSS (mg/l)	<20	2.12	2.9
3	Bio Chemical Oxygen Demand ,mg/L	<10	6.9	7.1

Ambient Noise Level Monitoring At Nearby Villages (Aug 2024 to Sep 2024)

Location Name	Day Time Norms dB(A)Leq	Aug-24	Sep-24
Shankar Hill Township	55	50.2	51.2
Sultanpur Village	55	48.9	49.3
Toranagallu	55	52.4	51.5
Talur Village	55	50.5	50.8
Vaddu Village	55	51.5	52.1
Gadiganur Village	55	51.7	50.8
Basapur Village	55	48.9	49.3
Kurekuppa Village	55	47.6	46.7
Karadidhama Village	55	51.6	50.4
Kudithini Village	55	50.2	51.5
Hampi Village	55	51.7	50.6
Vidyanagar Township	55	50.3	52.2

Location Name	Night time Norms dB(A)Leq	Aug-24	Sep-24
Shankar Hill Town	45	40	41
Sultanpur	45	40.5	40.8
Toranagallu	45	41.2	40.2
Talur	45	40.7	40.9
Vaddu	45	40.6	41.1
Gadiganur	45	41.2	41.6
Basapur	45	41.4	41.7
Kurekuppa	45	41.9	40.5
Karadidhama	45	40.7	41.2
Kudithini	45	41.6	42.3
Hampi	45	41.3	41.9
Vidyanagar	45	40.2	40.3

Stack Results 24 hrs Average (Aug 2024 to Sep 2024)

S.No.	Stack Name	PM		Norms
		Aug 2024	Sep 2024	
		mg/Nm3		
1	Sinter Plant SP5 Secondary Dedusting	34.5	39.1	<150
2	Blast Furnace BF5 Stove	-	11.86	<50
3	Blast Furnace BF5 Cast House East	-	26.99	<50
4	Blast Furnace BF5 Cast House West	-	19.21	<50
5	Blast Furnace BF5 Stock House	-	41.85	<50
6	Hot Strip Mill HSM3,Reheating Furnace RHF 1	22.1	24.6	<50
7	Hot Strip Mill HSM3,Reheating Furnace FES	14.99	16.21	<50

Work Zone Area Monitoring Results (Aug 2024 to Sep 2024)

Work Area August -24				
S.No.	Plant	Location	PM10	Norms
			µg/m3	
1	SP-5	Control room area	363	<3000
2	HSM 3	Near RHF	504	<3000

Work Area September-24				
S.No.	Plant	Location	PM10	Norms
			µg/m3	
1	HSM-3	PDS Area	321	<3000
2	HSM-3	Near RHF	129	<3000

Newspaper advertisement for grant of EC

Public Notice regarding Grant of Environmental Clearance

The Ministry of Environment, Forest and Climate Change, Government of India, has granted Environment Clearance vide its EC Identification No. EC24A1001KA5580178S, Dated 25/07/2024 for Splitting of existing EC of M/s JSW Steel Ltd, Vijayanagar works of 18 MTPA Integrated Steel plant, 1490 MW CPP along with 2.2 MTPA Slag cement between M/s JSW Steel Limited, M/s JSW Vijayanagar Metallics Limited (JVML) and M/s JSW Cement Limited.

Now, JSW Steel Limited will remain with a final configuration of 13 MTPA Integrated Steel facilities, 1490 MW of CPP and 0.2 MTPA Slag cement unit.

Transfer of 5 MTPA Integrated Steel facilities to M/s JSW Vijayanagar Metallics Limited and Transfer of 2 MTPA Slag Grinding Unit to Existing 4 MTPA Slag cement plant of M/s JSW Cement Limited, located at Vijayanagar works, Toranagallu, Ballari, Kamataka.

The copy of the same is available at Ministry of Environment, Forest and Climate Change website (www.parivesh.nic.in), Regional Office (Ballari), Head Office (Bengaluru) of Kamataka State Pollution Control Board and Available in company's website (www.jsw.in)

Sd/-

Authorized Signatory

(M/s JSW Steel Limited,

Place: Toranagallu

M/s JSW Vijayanagar Metallics Limited,

News published in The New Indian Express

ಪರಿಸರಲೀಯ ಸ್ವಚ್ಛಗೊಳಿಸುವಿಕೆ ಮಂಜೂರಾತಿ ಕುರಿತು ಸಾರ್ವಜನಿಕ ನೋಟೀಸ್

ಭಾರತ ಸರ್ಕಾರದ ಪರಿಸರ, ಅರಣ್ಯ ಮತ್ತು ಹವಾಮಾನ ಬದಲಾವಣೆ ಸಚಿವಾಲಯವು ತನ್ನ EC ಗುರುತಿನ ಸಂಖ್ಯೆ - EC24A1001KA5580178S ದಿನಾಂಕ: 25/07/2024ರಲ್ಲಿ ಪರಿಸರಲೀಯ ಸ್ವಚ್ಛಗೊಳಿಸುವಿಕೆ ಕುರಿತು ಅನುಮತಿಯನ್ನು ನೀಡಿದೆ. ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸ್ಟೀಲ್ ಲಿಮಿಟೆಡ್‌ನ ಅಸ್ತಿತ್ವದಲ್ಲಿರುವ ಪರಿಸರಲೀಯ ಸ್ವಚ್ಛಗೊಳಿಸುವಿಕೆಯನ್ನು (EC) ವಿಭಜಿಸುವುದು. ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸಂಯೋಜಿತ ಉಕ್ಕಿನ ಸ್ಥಾವರ ವಿಜಯನಗರದ 18 MTPA, ಮತ್ತು 1490 MW CPP ಚೊತೆಗೆ 2.2 MTPA ಸ್ಲಾಗ್ ಸಿಮೆಂಟ್‌ಗಳನ್ನು, ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸ್ಟೀಲ್ ಲಿಮಿಟೆಡ್, ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ವಿಜಯನಗರ ಮೆಟಾಲಿಕ್ ಲಿಮಿಟೆಡ್ ಮತ್ತು ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸಿಮೆಂಟ್ ಲಿಮಿಟೆಡ್ ಸಂಸ್ಥೆಗಳ ನಡುವೆ ವಿಭಜಿಸಿದೆ.

ಈಗ, ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸ್ಟೀಲ್ ಲಿಮಿಟೆಡ್ 13 MTPA ಸಂಯೋಜಿತ ಉಕ್ಕಿನ ಸ್ಥಾವರ ಸೌಲಭ್ಯಗಳು, 1490 MW CPP ಮತ್ತು 0.2 MTPA ಸ್ಲಾಗ್ ಸಿಮೆಂಟ್ ಘಟಕ, ಇವು ಅಂತಿಮ ಸಂರಚನೆಯೊಂದಿಗೆ ಉಳಿಯುತ್ತದೆ. ಕರ್ನಾಟಕದ ಬಳ್ಳಾರಿ ಜಿಲ್ಲೆಯ, ತೋರಣಗಲ್ಲು ವಿಜಯನಗರ ವರ್ಕ್ಸ್ ನಲ್ಲಿರುವ ಸಂಸ್ಥೆಗಳಾದ, ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ವಿಜಯನಗರ ಮೆಟಾಲಿಕ್ ಲಿಮಿಟೆಡ್‌ಗೆ 5 MTPA ಸಂಯೋಜಿತ ಉಕ್ಕಿನ ಸ್ಥಾವರ ಸೌಲಭ್ಯಗಳನ್ನು ವರ್ಗಾಯಿಸುವುದು ಮತ್ತು ಎಂ/ಎಸ್ ಜಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ. ಸಿಮೆಂಟ್ ಲಿಮಿಟೆಡ್, ಅಸ್ತಿತ್ವದಲ್ಲಿರುವ 4 MTPA ಸ್ಲಾಗ್ ಸಿಮೆಂಟ್ ಘಟಕಕ್ಕೆ, 2 MTPA ಸ್ಲಾಗ್ ಗ್ರೈಂಡಿಂಗ್ ಘಟಕವನ್ನು ವರ್ಗಾಯಿಸುವುದು.

ಮಂಜೂರಾತಿ ಅನುಮತಿಯ ಪ್ರತಿಯು ಪರಿಸರ, ಅರಣ್ಯ ಮತ್ತು ಹವಾಮಾನ ಬದಲಾವಣೆ ಸಚಿವಾಲಯದ ವೆಬ್‌ಸೈಟ್: (www.parivesh.nic.in), ಪ್ರಾದೇಶಿಕ ಕಚೇರಿ (ಬಳ್ಳಾರಿ), ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿಯ ಪ್ರಧಾನ ಕಚೇರಿ (ಬೆಂಗಳೂರು) ನಲ್ಲಿ ಲಭ್ಯವಿದೆ ಮತ್ತು ಕಂಪನಿಯ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಲಭ್ಯವಿದೆ (www.jsw.in)

ಸ್ಥಳ : ತೋರಣಗಲ್ಲು

Sd/- Authorized Signatory
(M/s JSW Steel Limited,
M/s JSW Vijayanagar Metallics Limited,

News published in Kannada Nudi Newspaper

