JSW Steel Limited

Raigarh Works : Naharpali, Kharsia Road,
Raigarh - 496 661, Chhattisgarh, India
CIN : L27102MH1994PLC152925
Phone : +91 07762 251000
Website : www.jsw.in

JSWSTEEL/NP/EMD/665/2024

Date: 23.11.2024

To,

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

Subject: Six Monthly Environmental Monitoring and Compliance Report for the period of April- 2024 to Sep-2024 of 1.75 MTPA Integrated Steel Plant, Naharpali, Raigarh, Chhattisgarh.

Reference:

1. Environmental Clearance accorded for 1.75 MTPA Integrated Steel Plant vide letter no. F. No. J-11011/196/2007–IA II(I) dated 26.12.2007;
2. F. No. J-11011/196/2007–IA II(I) dated 31.03.2011
3. F. No. J-11011/196/2007–IA II(I) dated 13.04.2017.
4. Letter No.-3350/SEIAA, C.G./Raigarh, Nawa Raipur, Atal Nagar, Dated 20/03/2024 (For name Change)

Dear Sir,

Please find enclosed herewith Six Monthly Compliance Report along with Environmental Monitoring Reports for the period of April-2024 to Sep-2024 with respect to the conditions stipulated in Environmental Clearance accorded vide letter no. J-11011/196/2007–IA II (I) dated 26.12.2007, 31.03.2011,13.04.2017 & 20.03.2024 for 1.75 MTPA Integrated Steel Plant, Naharpali, Raigarh, Chhattisgarh. Enclosures are us under;

1. Data sheet comprises of Part-I - **Appendix-A**
2. Compliance status Report & Monitoring Report - **Appendix-B**

This is for your kind information and records please.

Thanking Your

Yours faithfully

For JSW Steel Limited Raigarh

Authorized Signatory

Encl: Compliance & Monitoring report.

CC:

1. ***Zonal Officer,*** *Central Pollution Control Board, 3rd Floor, Sarkar Bhawan, North TT Nagar, Bhopal (M.P.) – 462003.*
2. ***Integrated Regional officer (MoEF & CC);*** *Aranya Bhavan, Sec-19, North Block, Block Sector -19, Atal Nagar Raipur (C.G.)*
3. ***Member Secretary,*** *Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block Sector -19, Atal Nagar Raipur (C.G.).*
4. ***Regional Officer,*** *Regional Officer, Chhattisgarh Environment Conservation Board, TV Tower Road, Raigarh (Chhattisgarh)*

APPENDIX-A

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests, Regional Office (WCZ), Nagpur

Monitoring Report

Part-I

DATA SHEET

1	Project type	:	1.75 MTPA Integrated Steel Plant
2	Name of the project	:	**JSW STEEL LIMITED, RAIGARH**
3	Clearance letter(s) / OM no. and date		J-11011/196/2007.1A.II(I), 26.12.2007, 12.03.2008, 31.03.2011, 16.02.2012 and 13.04.2017,20.03.2024 (Name change).
4	Location		
	District(s)	:	Raigarh
	State(s)	:	Chhattisgarh
	Latitude	:	21°58'30.41" N to 21°59'37.87" N
	Longitude	:	83°13'28.25" E to 83°15'11.29" E
5	Address for correspondence		
	a) Address of concerned Project Chief Engineer (with pin code & telephone / telex/ fax numbers)	:	R.K. Patel (Factory Manager) **JSW STEEL LIMITED, RAIGARH WORK** Village & Post-Naharpali, Tehsil-Kharsia Dist. Raigarh-496661; Ph. 07762-275502
	b) Address of Executive Project Engineer / Manager (with pin code / fax numbers.	:	M. Murlidhar Rao (EHS-Head) **JSW STEEL LIMITED, RAIGARH WORK** Village & Post-Naharpali, Tehsil-Kharsia Dist. Raigarh-496661; Ph. 07762-251105 Email: env.naharpali@jsw.in
6	Salient features		
	a) Of the project	:	Please refer **Annexure- A**
	b) of the environmental management plans	:	Please refer **Annexure- B**
7	Break-up of the project area.		
	a) Submergence area (forest & non-forest)	:	Nil
	b) Others	:	227.84 Hectare
8	Break-up of the project Affected population with enumeration of those losing houses / dwelling units only agricultural land only, both dwelling units & agricultural land & landless laborers / artisan.		
	a) SC, ST / Adivasi's	:	Not Applicable
	b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures if a survey is carried out give details &	:	227.84 Hectares

	year of survey)		
9	Financial details: Project cost as originally planned and subsequent revised estimates and the year of price reference.	:	2025 Crores (as on 2007)
	Actual expenditure incurred on the Environmental Management Department (Apr 2024-Sep 2024)	:	INR- 47 Lacs
10	Forest land requirement.		
	a) The status of approval for diversion of forest land for non-forestry use	:	Not Applicable
	b) The status of clearing felling	:	Not Applicable
	c) The status of compensatory afforestation, if any	:	Not Applicable
	d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far.	:	Not Applicable
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Not Applicable
12	Status of construction		
	a) Date of commencement (Actual and /or planned)	:	2008
	b) Date of completion (Actual and / or planned).	:	Not Applicable as project is operational
13.	Reasons for the delay if the project is yet to start.	:	Not Applicable
14	Dates of site visits		
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any.	:	23.08.2019
	b) Date of site visit for this monitoring report		23.08.2019
15	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits).	:	11.07.2019

ANNEXURE- {A}

SALIENT FEATURES OF THE PROJECT

JSW STEEL LIMITED (Formerly known as JSW Ispat Special Products Limited.) is located at village-Naharpali, 25 Km away from Raigarh (Chhattisgarh).

Salient features;

- ISO 9001:2015, 14001:2015, 45001:2018 & ISO 50001:2018 Certified Company
- Plant was established in the year 2008 with the identity of Monnet Ispat and Energy Limited.
- It is close to National Highway NH-200, nearest Railway Station is Kharsia which is 15 KM away and Airport is Jharsuguda (Odisha) about 84 KM away.
- Latitudes 21º58'27" & 21º59'30" & Longitudes 83º13'31" & 83º14'55" and height from mean Sea level is 219 m.
- Avg. Rainfall is 1400-1500 mm.
- Mahanadi River is the main source of water.

About the JSW Group

The US$ 24 billion JSW Group is ranked among India's leading business houses. JSW's innovative and sustainable presence in various sectors including Steel, Energy, Infrastructure, Cement, Paints, B2B Ecommerce, Venture Capital, Defence, Green Mobility and Sports is helping the Group play an important role in driving India's economic growth. The Group strives for excellence by leveraging its strengths & capabilities including a successful track record of executing large capital-intensive & technically complex projects, differentiated product-mix, state-of-the-art manufacturing facilities and a greater focus on pursuing sustainable growth.

With a culturally diverse workforce spread across India, USA, Europe and Africa, JSW Group directly employs nearly 40,000 people.

It also has a strong social development focus aimed at empowering local communities residing around its Plant & Port locations. JSW Group is known to create value for all its stakeholders by combining its growth roadmap, superior execution capabilities and a relentless drive to be #BetterEveryday.

About JSW Steel Limited, Raigarh

JSW Steel Limited, Raigarh has an integrated Steel plant with a capacity of 1.75 MT of steel production per year through various production facilities. Since inception JSW is giving its first priority

to conserve Environment by producing Steel and Iron. JSW Steel Limited has its corporate office at JSW Centre, near MMRDA Grounds, Kolivery Village, MMRDA Area, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051.

JSW Steel Limited, Raigarh have following production configuration:

Sr. No.	Unit	Capacity installed	Capacity in EC
1.	Sponge Iron unit (DRI klin-100 TPD & 4x350 TPD)	0.5 MTPA	0.7 MTPA
2.	Palletization Plant	2.2 MTPA	2.2 MTPA
3.	Sinter Plant	0.75 MTPA	0.75 MTPA
4.	Blast Furnace	0.7 MTPA	1 MTPA
5.	(Steel Plant) Electric Furnace	1.74 MTPA	1.74 MTPA
6.	Ferro Alloy Plant (Submerged Arc Furnace)	Not installed	0.075 MTPA
7.	Rolling Mill & Plate Mill	1.20 MTPA (Plate mill not operational)	1.2 MTPA
8.	Power Plant	170 MW	240 MW
9.	Coal Beneficiation Plant	1 MTPA (not operational)	1 MTPA
10.	DG Sets	2X1500 KVA	1x3.8 MVA & 3X1500 KVA
11.	Oxygen Plant	400(TPD) 0.132 MTPA	0.132 MTPA
12.	Lime Calcination Plant	Lime Calcination Plant 0.25 Million Tonnes/Year	-

Board of Directors

The Board of JSW Steel Limited comprises following Directors:

1. Mrs. Savitri Devi Jindal (Chairperson Emeritus)
2. Mr. Sajjan Jindal (Chairman & Managing Director, Non-Independent Executive Director)
3. Mr. Jayant Acharya (Joint Managing Director & CEO)
4. Mr. Gajraj Singh Rathore (Chief Operating Officer)
5. Mr. Hiroyuki Ogawa (Nominee Director, JFE Steel Corporation, Japan)
6. Dr. Sateesha B.C. (Nominee Director, KSIIDC)
7. Mr. Haigreve Khaitan (Independent Non-Executive Director)
8. Mr. Seturaman Mahalimgam (Independent Non-Executive Director)
9. Mrs. Nirupama Rao (Independent Non-Executive Director)
10. Ms. Fiona Jane Mary Paulus (Independent Non-Executive Director)
11. Mr. Marcel Fasswald (Independent Non-Executive Director)

ANNEXURE- {B}

ENVIRONMENT MANAGEMENT PLAN

Objectives of Environment Management Plan:

- To establish the present environmental scenario.
- To anticipate the impacts of proposed steel plant on the environment.
- To suggest preventive and mitigating measures to minimize adverse impacts and to maximize beneficial impacts.
- To prepare a detailed action plan for the implementation of mitigation measures.
- To prepare budgetary estimate for monitoring and implementation of environmental control measures for the project.

The environmental management plan is of great importance in controlling the adverse impact of any industrial activity. The Environment Management Plan consists of mitigation measures to be adopted, environmental monitoring and institutional measures (financial estimates and organizational set-up). The present EMP addresses the components of environmental effect during construction and operation by different activities. The proposed measures of mitigation are based upon the impact assessment. While formulating the EMP for this integrated steel plant project, following have been considered:

1.0 Existing environmental and operational activities
2.0 Air and water pollution
3.0 Work zone environment
4.0 Solid waste
5.0 Occupational hazard and safety
6.0 Environmental monitoring
7.0 Environmental management cost & organizational set-up

Careful planning and strategy adopted for the operation of a project is the reason for both economic growth as well as environmental protection. All efforts have been made to cover different parameters of the environment to achieve the goal. The following environmental management plans have been made under EMP.

1.0 EXISTING ENVIRONMENTAL AND OPERATIONAL ACTIVITIES

An environmental monitoring and control cell is established. The Environmental Cell is functioning under the control of the plant head. The cell is responsible for monitoring ambient air quality, stack emission, ambient noise in the plant and vicinity, waste water quality and discharge, quality of water bodies receiving effluent, workplace air quality. Additional responsibilities of the cell include the following:

- Submit environmental monitoring report to SPCB;
- Conduct regular training programs to educate plant personnel on safety practices to be followed in the plant;
- Conduct safety and health audits to ensure that recommended safety and health measures are being followed; and
- Inform the management regularly about conclusions/results of monitoring and recommend environmental protection measures.

2.0 AIR AND WATER POLLUTION

2.1 Air Environment Management:

The vision of JSW Steel Limited, Raigarh is deeply concerned with green & clean environment. Efforts have been taken to prevent any sort of pollution, generated due to plant activities. Opacity meters are installed in all the major stacks for continuous observation of the performance of pollution control devices. We have also established online ambient air quality monitoring stations for continuous ambient air quality monitoring through highly sophisticated instruments. Following Air pollution control measures have been taken across the units are as given below: -

Units	Air Pollution Control measures
SPONGE IRON DIVISION	In Sponge Iron unit, raw materials like Iron ore, Dolomite and coal are fed to the kiln to produce sponge iron. Hot flue gases from DRI kilns contain high SPM level and heat. These are taken to dust chamber, which also acts as after combustion chamber for complete combustion and then to Waste Heat Recovery Boilers (WHRB). ▪ Waste Heat Recovery Boilers are designed to recover sensible heat of waste gases leaving sponge iron kiln for generation of steam. Steam is fed to Steam Turbine Generator to produce power. ▪ After heat exchange in WHRB, the flue gases are taken to Electrostatic Precipitator (ESP) and clean gases are discharged through stack.

	▪ Bag filters are connected to Cooler discharge, product separation building and DRI product bin areas to collect dust.
CAPTIVE POWER PLANT	In Power Plant, Atmospheric Fluidized Bed Combustion (AFBC) and Circulating Fluidized Bed Combustion (CFBC)' boilers are used to produce steam from coal having high ash content and other carbon bearing nonmagnetic materials like char, coal washery rejects, etc. The boilers produce 2x120 & 1x336 tons/ hour steam, which is fed to turbines to produce electricity. ▪ Electrostatic Precipitators are provided to control the point source emission in power plant. ▪ Flue gases from boilers pass through ESP and thereafter discharged through the stack.
ROLLING MILL	In Rolling mill / Bar mill, Steel bar and structural are produced and main raw materials are steel bloom, beam and blank. ▪ Blast furnace gases and FO/LDO are used as fuel. ▪ There is no major dust generation source and stack is provided for wide dispersion of gases.
BLAST FURNACE	In Blast Furnace, raw materials like iron ore, limestone, coke, dolomite, manganese ore and quartz are stored in raw material storage yard and fed to the blast furnace. Blast furnace is a vertical shaft, in which extremely high temperature is created to recover pure iron from iron ore. ▪ TRT(Top pressure recovery turbine) are made function to utilize waste gas of Blast furnace. ▪ Waste gas/dust generated during process is arrested through Dry Gas Cleaning system and clean air is discharged through stack. ▪ The BF gas emanating from blast furnace top contains dust. This gas is first passed through the dust catchers where a major portion of dust is eliminated and dust load comes down. ▪ This gas is further cleaned in bag filter system; where the dust is fully recovered and the pure gas after cleaning passes through the chimney.

SINTER PLANT	Sinter plant is a straight grate type with circular cooler where raw materials like iron ore fines, limestone, dolomite and calcined lime are used as raw material. A sinter cake is produced as a result of baking and diffusion of solids on the sinter strand. The desired product size for the blast furnace is obtained in the crushing and screening station. ▪ Electrostatic Precipitators are installed to control the point source emission from process area as well as material transfer points. ▪ Bag Filters are installed to check fugitive emission at material transfer points. ▪ Water sprinkler systems are installed to minimize the fugitive dust generation and road side/yards/
STEEL MELTING SHOP	In Steel Melting Shop, steel slabs / billets and rounds are produced using electric arc furnace and raw materials are pig iron, sponge iron, scrap, ferroalloys, lime, burnt dolomite and fluxes. ▪ Dust, fume generated from electric arc furnace (EAF) are being routed through fume extraction system (FES) and taken to after combustion chamber. ▪ The SPM bearing gases are passed through water cooled duct to bring down the temperature to 130 – 140 °C before entering a bag filter then discharged through stack. Similarly, the SPM bearing gases generated from the ladle refining furnace are collected using FES. ▪ The fugitive emission from the continuous casting machine shop is generally confined within the shed. ▪ To disperse the fugitive emissions outside the shed, adequate Ventilation is provided.
PELLET PLANT	Pollution control measures have been envisaged for process gas and plant deducting to limit the dust content in outgoing gases to keep within the prescribed limit capacities. The plant is designed with electrostatic precipitators (ESPs) on the indurating process as discharge: Hood Exhaust & Wind box Exhaust ▪ ESP dust will be collected in a launder and discharged into a slurry sump. The hood exhaust ESP sump pumps will discharge to a plant thickener. ▪ The wind box exhaust ESP sump pumps will discharge to a sieve bend,

	which will remove coarse grit and pellet chips. The sieve bend slurry will discharge to the thickener. The oversize will be collected in a tote box. ▪ The hearth layer bin area of indurating machine will be combined with hood exhaust gases. ▪ To check fugitive emission during crushing, screening and charging, bag filters have been provided. ▪ All dust collected through bag houses, ESP is being recycled in the process.
COAL WASHERY	At present coal washery unit is not in operation.
Lime Calcination Plant.	All material transfer points are connected with dust extraction system. All dust collected through bag houses, is being recycled in the process.
Oxygen Plant	There is no source of pollution in the oxygen plant.

2.2 Water Environment Management:

Management is very conscious for controlling water pollution and water conservation, for which, plant has adopted Close Water Circuiting arrangement to maintain 'Zero Discharge'. Water pollution sources and control systems envisaged are as given below-

Source	**Pollutants**	**Control systems**
Raw materials handling	Suspended Solids	Catch pits and garland drains
DM water plant	pH	Neutralizing pit
Cooling tower blow down	Temperature	Reused in the plant for dust suppression
Boiler blow down	Suspended Solids	Suppression and slag granulation
Canteens	BOD, Suspended Solids	Soak pit, Sewage Treatment Plant (STP)
Raw water treatment	Suspended Solids	Clarifier, thickener sludge
Blast furnace gas cleaning plant	Suspended Solids	Clarifier, recirculation of under flow
SMS	Suspended Solids & oil grease	Settling tanks with oil skimmers
Iron ore Palletization Plant	suspended solids/Slurry	Thickener

Various water pollution control measures have been taken, the measures taken across the units are summarized herewith-

Units	Water Pollution Control Measures
Sponge Iron Plant,	▪ In DRI Kilns Cooling water is being recycled into the process by air cooling. ▪ Discarded cooling water is being utilized in other activities like dust suppression, ash conditioning, Kiln hot spot cooling, floor washing through drain system.
Power Plant	▪ DM plant rejects is being neutralized in neutralizing pit and reused for ash conditioning purpose. ▪ Cooling tower blow-down water are reused for dust suppression at CHP yard and floor washing activities.
Rolling mill / Bar mill	▪ Wastewater generated from rolling mill area is skimmed in scale pit and then recycled back into the system. ▪ Skimmed waste oil is sent to store for further disposal to authorized recycler. ▪ Recovered scale from pit is utilized in furnace for metal recovery.
Blast Furnace	▪ GCP installed at Blast Furnace is working on dry gas cleaning process hence, there is no effluent generation. ▪ Cooling tower blow-down & softener spent re-generated water is being reused in Slag granulation, dust conditioning and dust suppression activities.
Sinter Plant	▪ Cooling tower blow down is being used for sinter nodulizing process. ▪ Fresh water us only used to compensate the evaporation loss.
Steel Melting Shop EAF & Ladle furnace	▪ Wastewater generated from SMS area is skimmed in scale pit and then recycled back into the system. ▪ CT Blow down water is reused for cooling and settle down the flue gas residue in High Temperature Quenching tower (HTQ). ▪ Skimmed waste oil is sent to store for further disposal to authorized recycler. ▪ Recovered scale from pit is utilized in furnace for metal recovery.

Pellet Plant	▪ The water requirement in the pellet plant to maintain the moisture level in Green pellet which is fulfill by the reuse of Cooling Tower Blow down water. ▪ The same is also being utilized for Launder operation where all the dust is converted into slurry and taken to the thickener plant, where the water is separated from the iron ore fines and the clear water.
Coal Washery	At present coal washery unit is not in operation.
Oxygen Plant	Make-up water is added to substitute evaporation and drift loss. The blow-down will be used for slag granulation.
Other Water Pollution Control Measures	The following treatment and disposal measures have been planned. ▪ The wastewater from water pre-treatment, containing high-suspended solids, has collected in a settling basin, where the suspended solids are settle down partly by gravity. ▪ The supernatant water is pumped back into the raw water reservoir. ▪ Blow down from the boilers is being collected in a sump and pumped back into the raw water reservoir. ▪ Blow down water from the cooling water system, containing suspended solids and high TDS, will be transferred to the ETP sump for stabilization, mixing and settling of coarser solids. ▪ Wastewater from the DM Plant is being neutralized in a neutralization tank and transferred to the ERS sump. ▪ Floor washings is being collected in a sump, passed through oil traps, and transferred to the ETP sump for mixing, stabilization and settling. ▪ Wastewater collected in the ERS sump will be subjected to clariflocculation and settling. The clear water is being utilized quantitatively for dust suppression and ash handling. ▪ Domestic water is being treated in a sewage treatment plant (STP) based on activated sludge process. The treated water will be utilized quantitatively for horticulture and green belt. ▪ In the sintering shop, the reclaimed water is discharged through the RCC pipe by itself to the hot water pond of the circular system and after cooled is used by recycling.

3.0 WORK ZONE ENVIRONMENT

In operation phase noise and dust is often seen in work zone area. To Control and mitigation measures for abatement of dust emissions and noise level are as follows.

- Dust extraction systems, with bag filters have been installed at all transfer points and crushing/ grinding operations.
- Dust laden air is drawn through ID Fans, and passed through bag filters to bring down the dust content below 50 mg/Nm^3. The clean air is discharged into the atmosphere.
- Raw materials and finished product are stored in covered sheds.
- Water sprinkling is done regularly over all open storage dumps of solid wastes and raw materials.
- Significant plantation and green belt development has been envisaged to mitigate the impact of fugitive dust on ambient air.
- Monitoring of the fugitive dust shall be carried out at various places within the project site to ensure compliance to.
- The equipment's with high noise such as crusher, air compressor and air blower has enclosed in soundproof rooms, vibration-reducing material shall be installed on the foundation, and mufflers shall be installed at entrances and exits.
- Rubber boards are lined at the corners of coal and coke carrying corridors, U-shaped sliding channels has been adopted for conveying to reduce noises from collision of materials.
- Noise isolation by landforms, high buildings and trees is also considered in the layout plan to reduce noise.
- Provision of silencer at inlet and outlet of fans.

4.0 SOLID WASTE MANAGEMENT

JSW Steel Ltd. Raigarh has implemented a very efficient solid waste management system to overcome all these problems. Type, sources and management of solid waste are summarised as follows-

UNITS	**Solid Waste**	**Utilization/ Disposal Method**
SPONGE IRON	Dolochar	Power Plant
	ESP + Bag Filter Dust	Brick manufacturing unit, Low laying & filling of abandoned mines
	Kiln Accretion	For filling low lying areas.
POWER PLANT	Fly ash	Brick manufacturers, cement plant, Low laying &

	Bottom Ash	filling of abandoned mines.
SMS	EAF Slag	Crush and segregate into mag & non-mag slag through crushing unit. Mag slag is being re-cycled and rest non-mag slag is being sold for further processing.
	FES Dust	Recycled in Sinter Plant
	Skull Generation	Reused back in Steel Melting Shop
BLAST FURNACE	BF Slag	Collected and sold to Cement Plant for utilisation in cement manufacturing.
	Skull	Reused
	BF + GCP Dust	Re-used in Sinter Plant by charging along with raw materials.
BAR MILL	End cutting/Mill scale	Reused in Sinter/SMS unit
SINTER PLANT	Bag Filter Dust/ESP Dust	Reuse in Sinter

Other control measures for solid waste:

- In this integrated steel plant, substantial fraction of input comes out as solid waste which is generally reused in other plants. The EAF and LRF generates considerable amount of solid waste, which may be used for landfill, road making, etc.
- Large quantity of solid waste is generated from power plant as ash, which is collected through ESP economizer and hopper. The fly ash will be sent to the clinker grinding unit for manufacture of cement and the remaining ash will be sent for disposal. No ash storage is proposed.
- Quantity of generated hazardous waste is being disposed-off to authorized recycler. However, even the limited quantities of generated oil/grease and resin can cause negative impact if not disposed-off appropriately.
- The other type of solid wastes generated will include the dust collected from dust collectors, empty barrels (metal and plastic), bags, sweepings and other biodegradable wastes from the canteen.

APPENDIX-B

A. Compliance status of the Environment clearance granted for the integrated Steel Plant vide letter no F. No. J11011/196/2007- IA II (I) dated 26th Dec. 2007.

Sr. No	Condition	Compliances Report (April 2024 to Sep 2024)
A.	**SPECIFIC CONDITIONS**	
i.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Online stack monitoring facilities for all the stacks and sufficient air pollution control methods to control emissions from the kiln and WHRB shall be provided viz. Electrostatic precipitation (ESP) and bag filters etc. to keep emissions level below 100mg/Nm3. Gas cleaning plant (GCP) and Ventury Scrubbers shall be provided to blast furnace (BF). The BF gases shall be cleaned in gas cleaning system (GCS) and used in AFBC power plant. Kiln Off gases shall be used as fuel in the waste heat recovery boiler (WHRB).	Complied • Pollution control equipment like ESP, Bag filters has been installed at all the process stacks, All the transfer points are equipped with adequate water sprinkling system to keep emission level within prescribed limits. • Particulate matter emission from all the stacks is being maintained well within prescribed limit. • Continuous emission monitoring system facilities has also provided to all process stacks. • Scrubber and GCP Installed in Blast Furnace. Blast furnace exhaust gases are routed through Gas cleaning plant (GCP), further utilized as a fuel in Palletization plant & bar Mill. • Kiln off gases is being utilized as a fuel in the waste heat recovery boiler (WHRB).
ii	Secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the ministry and regularly monitored. Guidelines/Code of practice issued by the CPCB shall be followed.	Complied De-dusting system has been provided in Blast furnace cast house area, stock house area & PCI area to control secondary fugitive emission. In Sinter plant, we have 3 adequate and highly efficient Bag filters systems have been installed in material transfer points to control the secondary fugitive emission.

Iii	Total requirement of the water from Mahanadi River shall not exceed 37,340 m3/day. Acidic and alkaline wastewater from demineralization unit shall be neutralized in neutralization tank. The wastewater from gas cleaning plant (GCP) of BF plant shall be treated in thickener to remove SS and recycled. As reflected in the EIA/EMP report, the wastewater generated from the various units shall be properly recycled and reused in the process and for cooling, palletizing, slag granulation, horticulture etc. The wastewater from coal beneficiation plant shall be reused for ash slurry preparation for the disposal of ash generated from AFBC boiler. No wastewater shall be discharged outside the premises and 'Zero' discharge shall be strictly followed as proposed. The domestic effluent shall be treated in septic tank followed by soak pits and used for green belt development.	Complied. Water requirement is not exceeding the permissible limit. Acidic and alkaline wastewater from demineralization is being neutralized in neutralization pit. The wastewater generated from Blast Furnace is being recycled and reuse in slag granulation activity on daily basis. Waste water generated from the various units is being collected in settling tank and is being utilized in dust suppression at material storage yards, pellet granulation, horticulture purpose and sprinkling in road for dust suppression. Domestic effluent is treated in septic tank/soak pit & STP of capacity 300 KLD and the treated waste water is utilized in green belt development activities in colony area.
iv	Prior permission for the drawl of ground as well as surface water from Mahanadi river from the state ground water Board/ Central Ground Water Authority / concerned Department shall be obtained.	Complied. Permission for drawl of ground water from CGWA/CGWB have been granted vide NOC CGWA/NOC/IND/REN/1/2023/7972; date of Issue 28.06.2023, valid up to 02.03.2025. and also permission granted from Water Resource Department (C.G.) for surface water drawl. Copy of the same is attached hereby. **Annexure-I.**
v	All the char from DRI plant shall be utilized in AFBC Boiler of power plant and no char shall be disposed-off anywhere else. The other entire solid / hazardous waste generated shall be properly utilized or disposed of in environment friendly manner. ESP fly ash and bag filter dust shall be made available to the cement plants and brick making plants whereas bottom ash shall be disposed-off in a suitably designed landfill as per CPCB guideline to prevent leaching to the sub-soil and underground aquifer. Mill scale shall be reused in Ferro alloy/ pig iron furnace. The liquid slag shall be granulated in cast house granulation unit and given to	Complied, ▪ Dolochar from generated from DRI plant is being utilized in Captive power plant. ▪ Hazardous waste disposed-off as per Hazardous waste rule. ▪ Fly ash /ESP dust is being supplied to bricks/ blocks manufactures, low laying area and to fill abandoned stone mine quarries. ▪ Mill scale generated from Rolling mill is used in the Sinter Plant. ▪ Granulated slag generated from Blast Furnace unit is being supplied to cement manufacturing

	cement plants/ brick manufacturers for further utilization. Non-granulated slag shall be used in making roads. DM resin shall be disposed in properly cemented pit. Waste oil and lubricant shall be sold to authorized recyclers. Kiln accretions shall be utilized for filling low lying areas. ETP sludge shall be used in brick making and filling low lying areas.	unit. ▪ Non granulated slag generated from SMS, metal is recovered and recycled into the process, rest crushed and utilized for road embankment purpose. ▪ No DM resin were generated during the compliance period. ▪ Waste Oil / Used Oil & used lubricants is being sold out to authorized recycler/vendor. ▪ Kiln accretion is utilized as land filling for low lying areas. ▪ Sludge generated from water treatment plant is used in horticulture activities as manure.
vi	All the fly ash shall be utilized as per fly Ash Notification. 1999 and subsequently amendment in 2003.	Complied. Fly ash generated from power generation units is being utilized 100% in brick/cement manufacturing Unit, low laying & filling of abandoned stone quarry with prior permission of state pollution control board.
vii	Green belt shall be developed in at least 33% within and around the plant premises as per the CPCB guidelines in consultation with DFO.	Complied Total plantation area -194 acres (34.45% of total area -563 acres) No of plants 195420 Nos. Photograph is attached **Annexure-VII**
viii	Prior permission from the state forest department shall be taken regarding likely impact of the expansion of the proposed steel plant on the surrounding reserve forests viz. Rabo RF (0.92 Km, NE), Bansajhar RF (6.07Km, SW), Burha pahar (6.64 Km, W), Kenmura PF (2.64 Km, SW), Bendojhariya PF (5.11 Km, SW)	Noted & Agreed.
ix	All the recommendations made in the charter on Corporate Responsibility for Environment protection (CREP) for the steel sector shall be strictly implemented.	Noted & Agreed.
B. GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the state Government.	Agreed. All the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the state Government are being followed.
ii	No further expansion or modifications in the plant	Agreed.

	should be carried out without prior approval of the Ministry of Environment and forests.	
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this ministry on 19th May 1993 and standards prescribed from time to time. The state board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Complied. High efficiencies ESP and Bag Filters installed at all process and transfer points to keep emission level within the prescribed norms. Apart from these, dust suppression system is installed to control fugitive dust from transfer points. Online continuous Emission monitoring system installed at all stacks to monitor SPM levels.
iv	In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handling etc. shall be provided. Further specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc., shall be installed at material transfer points, blast furnace stock, house and other enclosed raw material handling areas. Centralized De-Dusting System for collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards for induction furnaces existing in the industry and proposed induction and arc furnaces. Fugitive emissions shall be regularly monitored and records maintained.	Complied. Adequate Bag filters have been provided at all material transfer points and other enclosed raw material handling areas. Water sprinkling systems have been provided at conveyors, storage yards and raw material handling areas to check fugitive dust. In addition to the above, water sprinklers are also provided on haul areas, leading to yards. Centralized de-dusting system has been installed at stock house, cast house area to collect the fugitive dust. Pneumatic dust extraction system has been provided to check the fugitive dust while conveying it from pollution control equipment.
v	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOX are anticipated in consultation with the CECB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CSEB / CPCB once in six months.	Complied. Four Online Ambient Air Quality Monitoring Stations are placed in four directions of the plant as suggested by the CECB which is interconnected with CECB/CPCB website. Monitoring data of the stations is being submitted regularly to CECB, Regional office at Raigrah & head office, Raipur and CPCB Delhi. Apart from the above, ambient air quality and stack

		monitoring report is being submitted to the board on monthly basis and six monthly to MoEF&CC Regional office, Nagpur and CPCB Bhopal. Copy of the same is attached herewith as **Annexure-IIA & IIB.**
vi	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Complied. Acidic and alkaline wastewater from demineralization plant is being neutralized in neutralization pit and reused in dust suppression. Waste water generated from the various units is being collected in settling tank and is being utilized in dust suppression at material storage yards, pellet granulation and horticulture purposes in localized area. Domestic effluent is treated in septic tank/soak pit & STP of capacity 300 KLD and the treated waste water is utilized in green belt development activities in colony area.
vii	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 viz 75 dB A (day-time) and 70 dB A (night-time)	Complied As a control measures, silencers and enclosures have been provided at all noise generating sources and as a secondary control measure PPE's like Earplugs/earmuff have been provided to the personals working in high noise prone areas. Regular monitoring of noise level is also in practice. Massive thick plantation is in and around the plant to control noise level. **Annexure-IIIA**
viii	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Complied. Regular health check-up of all workers is being carried out and record is being maintained. The same is attached herewith in **Annexure-IV.**
ix	The Company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	Compiled. All the surface runoff drains are interconnected into the pit for water harvesting which recharge the ground water and is being utilized for dust suppression system and horticulture.

x	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA. / EMP report. Further the company must undertake social-economic development activities in the surrounding villages community development programs, educational programs, drinking water supply and health care etc.	Complied. We are committed to comply with all environmental protection measures and safeguards recommended in EIA/EMP report. We also undertake socioeconomic activities in nearby villages and focus areas are as education, health, infrastructure, sustainable livelihood and social issues.
xi	The project authorities shall also provide adequate funds both recurring and non-recurring to implement the conditions stipulated the Ministry of Environment and Forest as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Complied. Separate funds have been allocated for environmental protection measures and implementing the conditions stipulated by MoEF&CC and State Boards.
xii	The Regional Office of this Ministry at Bhopal / CPCB/ CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied. Six monthly compliance reports along with monitoring data are being submitted to the Ministries regional office in soft copies regularly. Last compliance report submitted vide letter no. JSWSTEEL/NP/EMD/617/2024; Date: 29.05.2024 submitted on dated 31.05.2024, through mail.
xiii	The project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also be seen as website of the Ministry of Environment and Forests at http://enfor.nic.in This shall be circulated in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Complied
xiv	Project authorities 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 and the date of commencing the land development work.	Noted please

B. Compliance Status Report of the condition stipulated in Environmental Clearance for amendment in Environmental Clearance for inclusion of Oxygen Plant vide letter no. F. No. J-11011/196/2007 IA II (I) date: 31st March, 2011

Sr. No	Condition	Compliances Report (April 2024 to Sep 2024)
1.	Data on ambient air, stack and fugitive emissions shall be regularly submitted online to Ministry's Regional office at Bhopal, SPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO_2, and NOx outside the premises at the appropriate site for the general public.	Complied. Environmental monitoring data is being submitted to CECB regularly as well as six monthly compliance reports is also submitted to regional office within stipulated time. Apart from the above, monitoring report of the same is being displayed at outside of the company's main gate for public domain. **Annexure-V**
2.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.	Complied. Ambient Air Quality monitoring data are within the prescribed norms. **Annexure-IIA**
3.	The project proponent shall also submit six monthly reports on status of the compliance of stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhopal/CPCB/SPCB shall monitor the stipulated conditions.	Complied. Six monthly compliance reports along with monitoring data are being submitted to the Ministries regional office in soft copies regularly. Last compliance report submitted vide letter no. JSWSTEEL/NP/EMD/617/2024; Date: 29.05.2024 submitted on dated 31.05.2024, through mail.
4.	The environmental statement for each financial year ending on 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 Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. The environmental statement and status of compliance of environmental conditions is being submitted to the State Pollution Control Board, Raipur and Regional office, MoEF&CC, Nagpur in stipulated time frame. Last Environmental Statement has been submitted vide letter no JSWSTEEL/NP/EMD/655/2024; dated: 27.09.2024. Status of compliance of environmental conditions along with monitoring report have also been published in company's website at https://www.jswsteel.in/investors/jsw-steel-investor-information-environmental-clearances **Details attached as Annexure-VI**

5.	At least 2% of the total cost of the project (increased cost after amendment) shall be embarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	During Compliance period April 2024 to Sept 2024, 09.25 Lakh has been incurred towards CSR activities.

C. Compliance Status Report of the condition stipulated in Environmental Clearance for change of boiler configuration in Integrated Steel Plant (1.75 MTPA) and Captive Power Plant (240 MW) of JSWISPL, Naharpali vide letter no. F. No. J-11011/196/2007 – IA II (I) dated 13th April, 2017

Sr. No.	Specific Condition	Compliances Report (April 2024 to Sep 2024)
1.	The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.	Complied. Online ambient air quality monitoring system as well as continuous emission monitoring system in all stacks has been Installed and real time data is hook-up with the CPCB server. Apart from above, Air quality and emission monitoring report is being submitted to ministry and regional office regularly.
2	All conditions stipulated in the earlier ECs granted to the project should be strictly adhered to.	Complied.
3	Total quantum of dust release and pollution which is being released today has to be maintained even after increase in the pellet plant capacity.	Complied. ESP and Bag Filter installed at Pellet Plant area of adequate capacity and efficient to handle the additional pollution load as prescribed and keep it in within the prescribed norms all the time.
General Condition		
1	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Pollution Control Board and the State Government.	Agreed and followed.
2	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 & Agreed
3	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM_{10}, $PM_{2.5}$, SO_2 and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	Complied. There are four Online Ambient Air Quality Monitoring Stations are placed in four directions of the plant as suggested by the CECB which is interconnected with CECB/CPCB website. Monitoring data of the stations is being submitted monthly to CECB, Regional office at Raigarh and CECB, head office, Raipur. Copy of the same is enclosed herewith as **Annexure-IIA**

4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Complied. Waste water generated from the various units is being collected in settling tank and is being utilized in dust suppression at material storage yards, pellet granulation and horticulture purposes in localized area. Domestic effluent is treated in STP and treated waste water is utilized in green belt development activities. Copy of analysis report is enclosed in **Annexure III (B)**
5	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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 Liz.75 dBA (daytime) and 70 dBA (nighttime).	Complied. As a control measures, silencers and enclosures have been provided at all noise generating sources and as a secondary control measure PPE's like Earplugs/earmuff have been provided to the personals working in high noise areas. Monitoring of noise level is done on monthly basis and report of the same is submitted to the board regularly. Copy of the Monthly report is enclosed herewith as **Annexure-IIIA.**
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Regular health check-up of all workers is being carried out and record is being maintained. Please refer **Annexure-IV.**
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied. All the surface runoff drains are interconnected into the pit for water harvesting which recharge the ground water and is being utilized for dust suppression system and horticulture.
8	The project proponent shall 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 programs, educational programs, drinking water supply & health care etc.	Complied. We are committed to comply with all environmental protection measures and safeguards recommended in EIA/EMP report. We also undertake socioeconomic activities in nearby villages and focus areas are as education, health, infrastructure, sustainable livelihood and social issues.
9	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.	Complied. Separate funds have been allocated for environmental protection measures and apart from the onetime capital expenditure every year recurring fund have been provided for implementing the conditions stipulated by MoEF&CC and State Boards.
10	A copy of clearance letter shall 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	Agreed.

	shall also be put on the web site of the company by the proponent.	
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall 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; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Complied. The criteria pollutant levels namely; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) is being monitored and displayed at main gate of the company in the public domain. Details is attached as **Annexure-V.** The data along with compliance report have also been published in company's website at https://www.jswsteel.in/investors/jsw-steel-investor-information-environmental-clearances Details is Attached **as Annexure-VI**
12	The project proponent shall 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 MoEF&CC, the respective Zonal Office of CPCB and the SPCB, The Regional Office of this Ministry at Nagpur / CPCB / SPCB shall monitor the stipulated conditions.	Complied. Six monthly compliance reports along with monitoring data are being submitted to the Ministries regional office in soft. Last compliance report submitted vide letter no. JSWSTEEL/NP/EMD/617/2024; Date: 29.05.2024 submitted on dated 31.05.2024, through mail.
13	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 subsequent shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.	Complied. The environmental statement and status of compliance of environmental conditions is being submitted to the State Pollution Control Board, Raipur. Last Environmental Statement has been submitted vide letter no. Last Environmental Statement has been submitted vide letter no JSWSTEEL/NP/EMD/655/2024; dated: 27.09.2024.. Status of compliance of environmental conditions also sent to the respective Regional Office of the MOEFCC on dated 31.05.2024, through mail.
14	The Project Proponent shall 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 http:/envfor.tic.in. This shall 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 shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.	The Environmental Clearance had been made public via local newspapers.
15	Project authorities 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 and the date of commencing the land development work.	Agreed

Annexure-I

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Monnet Ispat And Energy Limited		
Project Address:	Naharpali		
Village:	Naharpali	Block:	Kharsia
District:	Raigarh	State:	Chhattisgarh
Pin Code:			
Communication Address:	Village And Post-naharpali, Tehsil- Kharsia, Kharsia, Raigarh, Chhattisgarh - 496661		
Address of CGWB Regional Office :	Central Ground Water Board North Central Chhattisgarh, 2nd Floor, Lk Corporate And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chhattisgarh - 492015		

1.	**NOC No.:**	CGWA/NOC/IND/REN/1/2023/7972	2.	**Date of Issuence**	28/06/2023
3.	Application No.:	21-4/1777/CT/IND/2018	4.	Category: (GWRE 2022)	Safe
5.	Project Status:	Existing Ground Water	6.	NOC Type:	Renewal
7.	**Valid from:**	03/03/2022	8.	**Valid up to:**	02/03/2025

9. Ground Water Abstraction Permitted:

Fresh Water		Saline Water		Dewatering		Total	
m³/day	m³/year	m³/day	m³/year	m³/day	m³/year	m³/day	m³/year
400.00	146000.00						

10. Details of ground water abstraction /Dewatering structures

	Total Existing No.:10						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	10	0	0	0	0	0	0	0	0	0

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

11.	Ground Water Abstraction/Restoration Charges paid (Rs.):	1046600.00

12.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers	Monitoring Mechanism		
			Manual	DWLR**	DWLR With Telemetry
	**DWLR - Digital Water Level Recorder	1	0	1	0

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.

8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
https://cgwa-noc.gov.in

Application No,:	21-4/1777/CT/IND/2018		
Name of Firm:	MONNET ISPAT AND ENERGY LIMITED		
AppType Category:	*Steel Industry*		
Application Type:	*Industrial*		
PAN/GSTIN No. of Firm/Individual:	/		

SN	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction /Restoration charges	1046600.00
3.	Environmental Compensation Charges (ECRGW) *(Date From to) Days-*	
4.	Penalty for non-Compliance of NOC conditions *Condition to be mentioned*	0.00
	Rs. Rupees Ten Lakh Fifty One Thousand Six Hundred Only	**1051600.00**

This is an system generated invoice, hence, does not require ink signed.

छत्तीसगढ़ शासन
जल संसाधन विभाग,
मंत्रालय, रायपुर

क्रमांक 4555 /29/31/93/म/औजप्र/डी–4, रायपुर, दिनांक 28/09/2004

प्रति,

मुख्य अभियंता,
हसदेव कछार,
जल संसाधन विभाग,
बिलासपुर (छ.ग.)

विषय:– मेसर्स मोनेट इस्पात लिमिटेड द्वारा रायगढ़ के समीप प्रस्तावित केप्टिव पॉवर प्लांट के साथ इंटीग्रेटेड स्टील प्लांट को महानदी से 5 एम.जी.डी. (लगभग 8.30 मिलियन घन मीटर वार्षिक) जल आबंटन की निश्चित स्वीकृति ।

संदर्भ:–1. मंत्रालयीन पत्र क्रं.–5594/29/31/93/म/औजप्र/डी–4,रायपुर, दिनांक 01.09.2003 ।
2. आपका पत्र क्रं.–911/21/मा/प्र–2/बिलासपुर, दिनांक 08.07.2004 । (C-57)

–00–

विषयांतर्गत प्रकरण में छत्तीसगढ़ शासन, जल संसाधन विभाग के संदर्भित पत्र क्रमांक–1 द्वारा जारी 5 एम.जी.डी. जल आबंटन की सैद्धांतिक स्वीकृति के तारतम्य में मोनेट इस्पात लिमिटेड द्वारा रायगढ़ के समीप प्रस्तावित केप्टिव पॉवर प्लांट के साथ इंटीग्रेटेड स्टील प्लांट हेतु महानदी से उसके तट पर स्थित ग्राम बालपुर के पास से 5.00 मिलियन गैलन प्रतिदिन (लगभग 8.30 मिलियन घन मीटर वार्षिक) जल–आहरण की निश्चित स्वीकृति, निम्नलिखित शर्तों के आधार पर दी जाती है :–

1. महानदी के निर्धारित स्थल से संस्थान के कार्यस्थल तक पानी ले जाने हेतु आवश्यक व्यवस्था (नदी में इंटेक वेल का निर्माण, पाईप लाइन बिछाना आदि), जल संसाधन विभाग के अनुमोदन उपरांत संस्थान स्वयं के व्यय से करेगा एवं इस संबंध में आवश्यक भू–अर्जन एवं अन्य जो भी समस्या आयेगी उसका निराकरण, संस्थान स्वयं के व्यय पर स्वयं करेगा ।

2. संस्थान द्वारा आहरित जल की मात्रा के माप हेतु, संस्थान द्वारा नदी में निर्मित किए जाने वाले इंटेक वेल में इलेक्ट्रानिक माप यंत्र लगाया जायेगा, जिसका जल संसाधन विभाग द्वारा समय–समय पर निरीक्षण (सत्यापन) किया जायेगा ।

3. संस्थान द्वारा जल आहरण स्थल के ऊपर एवं नीचे आसपास के ग्रामवासियों के पूर्व में स्थापित तटीय अधिकारों (Riparian Rights) की रक्षा की जायेगी तथा निचले क्षेत्र में निस्तार आदि हेतु सतत जल–प्रवाह रखा जायेगा ।

4. किसी कारणवश नदी में जल की कमी होने पर शासन इसके लिये जवाबदार नहीं होगा एवं इसके लिए शासन के विरूद्ध किसी प्रकार का दावा मान्य नहीं होगा ।

MONNET ISPAT & ENERGY LIMITED

(AUTHORISED SIGNATORY)

Executive Engineer
Water Resources Division

5. संस्थान, उपयोग पश्चात अपने संयंत्र से निस्सारित जल का रि–साइकलिंग करके इसका उपयोग करेगा तथा राज्य प्रदुषण नियंत्रण मंडल के नियमों के अनुसार निस्सारित करेगा ताकि नदी के निचले भाग के क्षेत्र में जल प्रदूषण की कोई समस्या उत्पन्न न हो ।

6. संस्थान द्वारा जल आहरण प्रारंभ करने के पूर्व शासन के निर्धारित प्रपत्र–7 (क) में, शासन के अनुमोदन पश्चात् जल संसाधन विभाग से अनुबंध किया जायेगा ।

7. संस्थान, छत्तीसगढ़ शासन द्वारा वर्तमान में निर्धारित एवं भविष्य में समय–समय पर निर्धारित किये जाने वाली बढ़ी हुई औद्योगिक जल–दरों एवं औद्योगिक जल प्रदाय से संबंधित अन्य जल करों (कमिटमेंट चार्जेस आदि) का नियमानुसार भुगतान जल संसाधन विभाग को करेगा तथा यह दरें संस्थान पर बंधनकारी होगी ।

8. संस्थान को आबंटित कुल 5 एम.जी.डी. (लगभग 8.30 मि.घ.मी. वार्षिक) जल उपयोग की अनुमति के परिपेक्ष्य में उनके द्वारा वास्तविक रूप से उपयोग किये गये जल की मात्रा की समय–समय पर समीक्षा की जायेगी ।

9. संस्थान को इस स्वीकृति के जारी होने के दिनांक से 4 वर्षों के अंदर जल का उपयोग प्रारंभ करना होगा एवं उपरोक्तानुसार समस्त शर्तों का पालन करना होगा, अन्यथा यह स्वीकृति निरस्त मानी जावेगी ।

सहपत्र:–0

(सरजियस मिंज) 27/9/04
प्रमुख सचिव,
जल संसाधन विभाग,
मंत्रालय, रायपुर

पृ0 क्रमांक /29/31/93/म/औजप्र/डी–4, रायपुर, दिनांक /09/2004

प्रतिलिपि:–

1. प्रमुख अभियंता, जल संसाधन विभाग, रायपुर की ओर संदर्भित पत्रों के परिपेक्ष्य में सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।
2. संयोजक सह प्रमुख सचिव, राज्य निवेश प्रोत्साहन बोर्ड, मंत्रालय के पास (रेणुका द्वार), शास्त्री चौक, रायपुर,
3. अपर प्रबंध संचालक, सी.एस.आई.डी.सी., बी–4, एम.आर.कालोनी, शैलेन्द्र नगर, रायपुर, एवं
4. मुख्य कार्यकारी, मोनेट इस्पात लिमिटेड, चंदखुरी मार्ग, मंदिर हसौद (रायपुर),

की ओर संदर्भित पत्र क्रमांक–1 के पृष्ठांकन के परिपेक्ष्य में सूचनार्थ अग्रेषित

सहपत्र:–0

MONNET ISPAT & ENERGY LIMITED

(AUTHORISED SIGNATORY)

Executive Engineer

विशेष कर्तव्यस्थ अधिकारी,
जल संसाधन विभाग,
मंत्रालय, रायपुर

IBM D ocd Hindi letter L-34

Annexure-IIA

JSW Steel Limited

Naharpali, Raigarh

AMBIENT AIR QUALITY MONITORING REPORT

PERIOD: APRIL -2024 SEPTEMBER -2024

Station Name / parameter	CAAQMS-I					CAAQMS-II					CAAQMS-III					CAAQMS-IV				
	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_2	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_2	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_2	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_2
MONTH	***Prescribed Standard (Values in µg/m³):*** *PM_{10}-100.0; $PM_{2.5}$-60.0, CO- 2.0 mg/m³, SO_2-80.0,NO2-80mg/8Hr.*																			
April-2024	61.06	35.22	0.48	22.90	23.27	72.26	40.04	0.87	20.46	23.27	64.94	38.43	0.52	18.53	27.90	57.81	35.04	0.40	27.16	17.12
May-2024	60.52	34.07	0.49	21.31	22.21	73.27	41.13	0.53	19.76	21.70	66.54	38.21	0.32	19.71	27.75	63.50	38.83	0.45	23.79	19.26
June-2024	56.74	27.42	0.48	23.48	21.06	69.45	39.42	0.58	18.46	23.04	63.54	35.27	0.34	20.36	26.08	61.83	33.79	0.44	23.23	25.18
July-2024	54.35	31.42	0.47	23.36	23.05	66.28	35.15	0.59	19.67	21.76	59.45	33.74	0.36	21.56	27.95	53.15	28.62	0.46	22.02	37.93
Aug.-2024	56.86	32.08	0.47	21.86	23.06	61.74	34.07	0.70	18.50	19.78	57.34	35.06	0.45	23.16	7.48	50.68	28.11	0.41	21.50	28.11
Sept.-2024	54.94	34.25	0.43	23.83	24.07	65.77	36.64	0.73	19.30	21.46	64.26	40.15	0.41	24.91	8.05	60.18	32.74	0.44	21.37	26.57

HOD (EHS)

ANNEXURE-II B

JSW Steel Limited

Naharpali, Raigarh

STACK EMISSION MONITORING REPORT (CEMS)

PERIOD: APRIL-2024 TO SEPTEMBER-2024

Monitoring Results	DRI Stack 1 (Kiln 1& 2)		DRI Stack 2 (Kiln 3 & 4)		DRI Stack 3 (Kiln 5 & 6)		STACK-4 (CPP AFBC)			STACK-5 (CPP CFBC)			STACK-6 (Pallet Plant)	STACK-7 (Rolling Mill)	STACK-8 (BF)	STACK-9 (Sinter Plant)	STACK-10 (SMS)	STACK-11(LIME PLANT)
	Parameters/prescribed limit (in mg/Nm^3)																	
	SO_2	PM	SO_2	PM	SO_2	PM	SO2	NOx	PM	SO_2	NOx	PM	PM	PM	PM	PM	PM	PM
	600	**50**	**600**	**50**	**600**	**50**	**600**	**300**	**50**	**600**	**300**	**50**	**50**	**50**	**50**	**50**	**50**	**50**
APR-2024	277.06	45.14	357.24	43.70	295.07	39.16	377.04	119.05	38.26	395.41	50.45	37.05	39.06	21.40	26.30	46.71	27.50	25.51
MAY-2024	186.45	19.96	205.13	17.36	216.47	20.87	359.00	102.40	38.97	323.14	89.08	35.06	37.65	19.87	38.96	44.67	29.46	32.54
JUN-2024	283.54	44.12	260.05	45.32	126.01	38.17	288.15	96.7	26.2	89.16	64.08	38.81	22.26	17.14	26.9	24.72	33.63	35.64
JUL-2024	114.0	47.0	94.0	22.1	155.0	43.0	92.0	95.0	45.0	265.0	155.0	38.4	44.7	17.6	16.7	33.4	16.6	24
AUG-2024	86.0	44.4	235.0	39.8	72.0	42.0	300	121.0	30.8	289.0	132.0	38.6	37.3	16.2	30.0	33.6	19.5	21.7
SEP-2024	98.0	35.2	123.0	39.3	226.0	39.0	253.0	144.0	31.8	221.0	112.0	43.5	38.5	12.6	30.4	44.9	12.5	29.8

HOD (EHS)

ANNEXURE-III A

JSW Steel Limited

NOISE LEVEL MONITORING REPORT

WORK ZONE& AMBIENT-DAY TIME:(April-2024 to Sept. -2024)

SN.	LOCATION	MONTH					
		April-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
SPONGE IRON							
1	Below Platform at Kiln # 1	80.9	70.1	73.0	73.9	73.9	77.6
2	Below Platform at Kiln # 3	81.5	74.6	74.2	76.6	76.6	80.05
3	Below Platform at Kiln # 6	81.4	75.3	77.3	74.9	74.9	72.4
4	RMH Unit (Near office Building)	67.9	71.4	70.1	69.4	69.4	70.8
5	PSB Area (Ground floor)	83.8	74.2	75.9	70.8	70.1	73.6
6	Coal Crusher Area	82.1	74.4	77.8	79.9	79.9	74.4
7	Compressor	83.9	76.2	82.3	89.4	82.5	83.8
POWER PLANT							
8	TG 1 (TG Floor)	82.8	74.4	83.6	80.2	80.5	78.2
9	TG 2 (TG Floor)	83.4	73.8	83.2	79.5	79.9	79.4
10	Boiler CFBC (80 MW)	79.8	70.4	76.3	78.2	82.05	78.8
11	Boiler CFBC (90 MW)	77.5	74.5	79.9	77.4	80.2	79.4
12	CHP Unit	67.4	59.9	58.7	66.8	66.8	68.7
13	DG Set	81.5	81.6	83.9	81.5	82.8	82.2
14	Compressor House	81.4	80.4	81.3	81.5	82.9	83.9
SINTER PLANT							
15	Control Room	69.4	74.2	54.8	54.9	54.9	53.1
16	ESP Area (Near ID fan)	80.1	74.8	78.4	76.9	76.9	67.7
17	Sinter Cooler Area	78.9	75.2	76.4	76.7	80.2	65.8
18	Production Screen House	78.9	76.3	78.1	77.9	77.9	73.2
19	Crusher Building Area	80.7	74.2	77.6	79.4	79.4	63.2
SMS							
20	Near EAF (Ground Floor)	80.2	76.1	76.8	69.8	69.8	77.2
21	Near LRF (Ground Floor)	79.4	74.2	75.2	80.3	79.8	71.2
22	Billet Caster	80.7	74.5	78.1	79.4	80.7	77.9
23	EAF Control Room	78.9	74.4	56.2	54.5	54.5	53.8
BLAST FURNACE							
24	BF control room	62.3	46.3	53.9	54.2	53.4	52.7
25	BF Stove (Cast House)	80.4	64.7	79.9	75.8	57.2	76.8
26	PCM Area	80.7	74.1	78.4	78.2	78.4	72.8
27	Pump House (Near Cooling Tower)	82.1	73.9	80.9	83.4	78.4	79.8
ROLLING MILL							
28	Reheating Furnace	79.9	79.7	73.6	79.2	78.7	78.2
29	CNC Room	69.4	74.2	76.9	76.8	67.2	60.4
30	Straightening pulpit Area	80.1	70.2	74.9	68.9	77.4	72.8
31	Cooling Bed	79.4	65.4	69.8	64.3	67.9	64.2
32	Strand Area	78.9	64.7	70.7	62.1	69.4	59.4
PELLET PLANT							
33	Below Balling Building	80.9	75.1	65.8	76.8	76.8	77.8
34	Indurating Furnace (First Floor)	81.7	76.3	75.8	79.7	79.7	79.4

ANNEXURE-III A

JSW Steel Limited

NOISE LEVEL MONITORING REPORT

WORK ZONE& AMBIENT-DAY TIME:(April-2024 to Sept. -2024)

35	Gas Booster	79.3	74.7	70.9	75.9	75.9	80.1
36	ABG Area	77.8	75.0	66.8	77.2	77.2	73.8
37	Near Thickener Area	79.6	72.8	58.5	79.2	79.2	80.4
OXYGEN PLANT							
38	Control room /Office	57.9	49.2	57.9	56.7	56.7	56.9
39	Nitrogen Compressor	81.4	83.3	80.4	83.4	82.2	83.5
WAGON TIPPLER							
40	Iron Yard	68.9	68.3	64.8	65.9	65.9	63.7
41	Wagon Office Area	51.5	50.3	52.8	53.4	58.4	51.4
42	Iron Hopper Area	69.4	65.4	67.9	69.9	69.9	67.2
43	Coal Hopper Area	64.8	64.4	70.4	71.8	71.8	69.8
WORKSHOP (AUTOMOBILE)							
44	Office Area	53.8	43.8	53.5	56.5	56.5	57.2
45	Workshop	68.9	64.5	64.7	68.7	68.7	67.3
46	Fabrication Area	76.1	64.7	66.2	70.5	70.5	70.9
47	Yard	62.4	60.8	53.9	59.2	59.2	55
LIME PLANT							
48	Lime Plant Office	55.8	51.2	55.1	52.4	52.2	52.7
49	Lime plant packing area	72.3	69.9	76.3	69.4	69.4	76.2
50	Lime plant feeding area	74.1	72.8	65.3	74.3	74.3	75.9
AMBIENT NOISE LEVEL MONITORING REPORT							
51	Main gate (Outside)	51.15	49.05	53.9	52.1	58.1	53.8
52	Gate no-2(Near WTP-2)	51.85	51.5	56.3	46.5	48.9	49.8
53	Gate-3(Near pellet plant)	54.1	53.8	55.5	48.5	50.7	53.3
54	Colony Gate	47.55	44.5	52.5	47.6	47.6	50

HOD (EHS)

ANNEXURE-III B

JSW Steel Limited

WASTE WATER ANALYSIS REPORTS

PERIOD: APRIL-2024 to SEPTEMBER-2024

SL No.	Characteristics	Permissible Limits	APR-24	MAY-24	JUN-24	JULY-24	AUG-24	SEP-24	APR-24	MAY-24	JUN-24	JULY-24	AUG-24	SEP-24
			Sample Results											
			Effluent Recycle System (ERS)						Sewage Treatment Plant (STP)					
1	Temperature	Not more than 5◦C to intake water	31.5	30.4	27.4	28.4	26.8	28.3	31.4	30.1	27.7	28.4	26.7	28.9
2	pH	6.0 to 8.5	7.5	6.71	7.6	7.24	7.37	7.39	7.1	6.79	7.5	6.78	7.15	7.1
3	TSS	100.0 mg/L	94	80	24	48.5	73.2	92.8	68	16	14	39.7	61.4	74.3
4	Chemical Oxygen Demand (COD)	250.0 mg/L	71.2	77.6	54.4	76	94.4	164.8	61.6	98.5	56.8	81	70.4	75.2
5	Biochemical Oxygen Demand(BOD)	30.0 mg/L	1.2	3.1	3.5	3.7	4.2	3.2	2.4	2.5	2.3	2.1	6.4	2.1
6	Oil & Grease	10.0 mg/L	2.8	1.4	2.7	1.8	2.4	1.8	1.5	0.3	0.8	1.4	1.2	1.3

HOD (EHS)

ANNEXURE-IV
JSW STEEL LIMITED RAIGARH
Health Check-up Record

S.No.	SAP ID	Name of the Employee	Age	Sex	Designation	Department	PME Date 2024	PME Sr. No.
1	1021782	Firat Ram Lahare	57	Male	Senior Technician	Blast Furnace	01.04.2024	PME0392/24
2	1022060	Dinesh Kr. Yadav	40	Male	Senior Technician	Direct Reduced Iron (DRI)	01.04.2024	PME0393/24
3	1022510	Ram Nivash Kumar	43	Male	Senior Technician	Bar Mill	01.04.2024	PME0394/24
4	1019990	Ashis Kumar Behera	38	Male	Manager	Blast Furnace	01.04.2024	PME0395/24
5	1094728	Chandra Vijay Rathore	33	Male	Senior Engineer	Power Plant	01.04.2024	PME0396/24
6	1098467	Amit Kumar Sahu	33	Male	Assistant Manager	Power Plant	01.04.2024	PME0397/24
7	1022136	Basant Kumar Kujur	50	Male	Senior Technician	Direct Reduced Iron (DRI)	01.04.2024	PME0398/24
8	1022148	Vinod Paswan	45	Male	Senior Technician	Power Plant	01.04.2024	PME0399/24
9	1021698	Dilip Das Mahant	53	Male	Senior Technician	Direct Reduced Iron (DRI)	01.04.2024	PME0400/24
10	1020567	Barun Kumar Singh	38	Male	Deputy Manager	Power Plant	01.04.2024	PME0401/24
11	1020100	Kartik Marval	30	Male	Assistant Engineer	Information Technology	02.04.2024	PME0402/24
12	1022131	Pratap Naik	42	Male	Technician	Blast Furnace	02.04.2024	PME0403/24
13	1092955	Prem Sagar	40	Male	Assistant Manager	Blast Furnace	02.04.2024	PME0404/24
14	1021725	Vivekanand Sharma	57	Male	Senior Engineer	Central Maintenance (CMD)	03.04.2024	PME0405/24
15	1022570	Amit Kumar Kashyap	40	Male	Senior Technician	Blast Furnace	03.04.2024	PME0406/24
16	1022017	Chandra Kr. Dansena	48	Male	Staff	Administration	03.04.2024	PME0407/24
17	1021866	B.Shyam Sundar Rao	47	Male	Manager	Human Resource	03.04.2024	PME0408/24
18	3001408	Rajendra Tiwari	48	Male	Assistant Officer	Administration	03.04.2024	PME0409/24
19	2978509	Kamlesh Yadav	54	Male	Assistant Officer	Logistics/ PPC/CSD	03.04.2024	PME0410/24
20	1022647	Rajnish Agrawal	44	Male	Manager	Power Plant	03.04.2024	PME0411/24
21	1022378	Rajeshwar Singh	55	Male	Senior Technician	Power Plant	03.04.2024	PME0412/24
22	1019826	Hari Shankar Sahu	37	Male	Engineer	Blast Furnace	03.04.2024	PME0413/24
23	1095229	Saket Sahu	24	Male	Graduate Engineer Trainee	Blast Furnace	03.04.2024	PME0414/24
24	2978034	Vijay Kumar Agrawal	52	Male	Deputy General Manager	Power Plant	03.04.2024	PME0415/24
25	1025788	Suresh Kumar Tiwari	45	Male	Assistant General Manager	Administration	04.04.2024	PME0416/24
26	1022550	Chander Pal	43	Male	Junior Engineer	Bar Mill	04.04.2024	PME0417/24
27	1096606	Bangaru Suresh Kumar	29	Male	Senior Engineer	Blast Furnace	04.04.2024	PME0418/24
28	1020538	Sanny Bansod	39	Male	Engineer	Blast Furnace	04.04.2024	PME0419/24
29	3002056	Saurav Kesharwani	31	Male	Assistant Manager	Power Plant	04.04.2024	PME0420/24
30	1022107	Rajnarayan Kanth	45	Male	Assistant Engineer	Environment, Health & Safety	04.04.2024	PME0421/24
31	1093008	Ravi Kumar Singhai	32	Male	Senior Engineer	Power Plant	05.04.2024	PME0422/24
32	1022314	Bibhash Chandra Pradhan	51	Male	Deputy Manager	Direct Reduced Iron (DRI)	05.04.2024	PME0423/24
33	1022228	Raju Yadav	53	Male	Senior Technician	Central Maintenance (CMD)	05.04.2024	PME0424/24
34	1020842	Dhanu Lohar	37	Male	Technician	Blast Furnace	05.04.2024	PME0425/24
35	1022530	Tileshwar Prasad Ratrhore	42	Male	Technician	Direct Reduced Iron (DRI)	05.04.2024	PME0426/24
36	1021813	Prashant Tiwari	50	Male	Senior Technician	Direct Reduced Iron (DRI)	05.04.2024	PME0427/24
37	1021783	Hari Singh Yadav	49	Male	Senior Technician	Direct Reduced Iron (DRI)	05.04.2024	PME0428/24
38	1022512	Ram Ratan Mahato	44	Male	Senior Technician	Bar Mill	06.04.2024	PME0429/24
39	1022460	Deptiranjan Mohapatra	36	Male	Deputy Manager	Power Plant/ Switch Yard	08.04.2024	PME0430/24
40	1092533	Leelanarayan Patel	28	Male	Junior Engineer	Blast Furnace	08.04.2024	PME0431/24
41	1022217	Net Ram Patel	49	Male	Technician	Power Plant/ Switch Yard	08.04.2024	PME0432/24

42	1022416	Om Prakash Vishwakarma	49	Male	Deputy Manager	Steel Melting Shop(SMS)	08.04.2024	PME0433/24
43	1022434	Shiv Chouhan	42	Male	Junior Engineer	Blast Furnace	08.04.2024	PME0434/24
44	1022000	Siya Ram Naik	56	Male	Staff	Central Maintenance (CMD)	08.04.2024	PME0435/24
45	1022087	Gunshegran Mudliyar	57	Male	Junior Engineer	Central Maintenance (CMD)	08.04.2024	PME0436/24
46	1022321	Rajdeo Kumar	38	Male	Junior Engineer	Environment, Health & Safety	08.04.2024	PME0437/24
47	1022258	Anil Kumar	40	Male	Senior Technician	Bar Mill	08.04.2024	PME0438/24
48	1022229	Rajendra Ku. Bandhey	48	Male	Senior Technician	Central Maintenance (CMD)	08.04.2024	PME0439/24
49	1090159	Vipul Singh	37	Male	Deputy manager	Lime Plant	08.04.2024	PME0440/24
50	1021991	Md.Shakil Ahmed	53	Male	Senior Technician	Bar Mill	08.04.2024	PME0441/24
51	1018308	Jyoti Soni	26	Female	Junior Executive	Steel Melting Shop(SMS)	08.04.2024	PME0442/24
52	1022559	Anup Rai	33	Male	Technician	Bar Mill	08.04.2024	PME0443/24
53	1021968	Rashmi Ranjan Jena	45	Male	Senior Technician	Power Plant/ Switch Yard	09.04.2024	PME0444/24
54	1021907	Dhanpal Saha	56	Male	Junior Engineer	Central Maintenance (CMD)	09.04.2024	PME0445/24
55	1087275	Prashant Kumar Dewangan	37	Male	Deputy Manager	Power Plant/ Switch Yard	09.04.2024	PME0446/24
56	1021862	Nand Kishor Prasad	58	Male	Junior Engineer	Central Maintenance (CMD)	09.04.2024	PME0447/24
57	1022539	Sanoj Kumar Prasad	37	Male	Senior Technician	Bar Mill	09.04.2024	PME0448/24
58	1022173	Saheb Yadav	45	Male	Senior Technician	Bar Mill	09.04.2024	PME0449/24
59	1022183	Laxmi Narayan	47	Male	Senior Technician	Central Maintenance (CMD)	09.04.2024	PME0450/24
60	1022001	Ram Gopal Sahu	44	Male	Technician	Blast Furnace	09.04.2024	PME0451/24
61	1022304	Arun Kumar Chauhan	39	Male	Senior Assistant	Logistics/ PPC/CSD	09.04.2024	PME0452/24
62	1087643	Vankudoth Bhavani	25	Female	Assistant Manager	Quality Control	09.04.2024	PME0453/24
63	1022274	Ram Lakhan Shaw	50	Male	Senior Technician	Central Maintenance (CMD)	10.04.2024	PME0454/24
64	1022500	Ramesh Gupta	48	Male	Staff	Bar Mill	10.04.2024	PME0455/24
65	1022014	Ved Prasad Rathia	48	Male	Staff	Direct Reduced Iron (DRI)	10.04.2024	PME0456/24
66	1019837	Nilesh Prakash Gumble	36	Male	Assistant Manager	Blast Furnace	10.04.2024	PME0457/24
67	1019833	Kushadhar Pradhan	34	Male	Engineer	Blast Furnace	10.04.2024	PME0458/24
68	1022045	Rewa Lal Rathiya	47	Male	Staff	Power Plant	10.04.2024	PME0459/24
69	1021914	Priti Ranjan Dash	46	Male	Manager	Direct Reduced Iron (DRI)	10.04.2024	PME0460/24
70	1022254	Madhukar Rawate	47	Male	Manager	Direct Reduced Iron (DRI)	10.04.2024	PME0461/24
71	1088648	Janak Lal	45	Male	Deputy Manager	Logistics/ PPC/CSD	10.04.2024	PME0462/24
72	1021946	Vinod Chaudhary	44	Male	Senior Technician	Direct Reduced Iron (DRI)	10.04.2024	PME0463/24
73	1019831	Sanjay Singh Khalsa	41	Male	Senior Engineer	Blast Furnace	11.04.2024	PME0464/24
74	1022651	Dinesh Kumar Gore	43	Male	Deputy Manager	Blast Furnace	11.04.2024	PME0465/24
75	1094477	Bhoj Ram Jaiswal	32	Male	Assistant Officer	Information Technology	11.04.2024	PME0466/24
76	1022271	Vijay Kumar Singh	46	Male	Senior Technician	Central Maintenance (CMD)	11.04.2024	PME0467/24
77	1022196	Akhilesh Kumar Mehta	47	Male	Senior Technician	Central Maintenance (CMD)	11.04.2024	PME0468/24

78	1022210	Murlidhar Malakar	35	Male	Technician	Central Maintenance (CMD)	11.04.2024	PME0469/24
79	1022409	Sanjay Parida	43	Male	Technician	Central Maintenance (CMD)	11.04.2024	PME0470/24
80	1021718	Sanjay Kumar Rathore	45	Male	Manager	Direct Reduced Iron (DRI)	11.04.2024	PME0471/24
81	1022562	Bablu Yadav	49	Male	Senior Technician	Bar Mill	11.04.2024	PME0472/24
82	1090934	Anoop Tiwari	25	Male	Assistant Manager	Blast Furnace	12.04.2024	PME0473/24
83	1019823	Homraj P. Bhendarkar	40	Male	Senior Engineer	Blast Furnace	12.04.2024	PME0474/24
84	1022540	Gupteshwar Kumar Yadav	32	Male	Staff	Bar Mill	12.04.2024	PME0475/24
85	1022489	Karna Meher	48	Male	Junior Engineer	Central Maintenance (CMD)	12.04.2024	PME0476/24
86	1022491	Subhash Yadav	52	Male	Senior Technician	Central Maintenance (CMD)	12.04.2024	PME0477/24
87	1022506	Vivek Kumar	32	Male	Staff	steel Melting Shop(SM	15.04.2023	PME0478/24
88	1022172	Pradip Kumar Rai	41	Male	Technician	Central Maintenance (CMD)	15.04.2024	PME0479/24
89	1021864	Bijendra Kumar Mourya	54	Male	Senior Technician	Central Maintenance (CMD)	15.04.2024	PME0480/24
90	1022121	Rameshwar Das Mahant	49	Male	Junior Officer	Purchase & Commercial	15.04.2024	PME0481/24
91	1021967	Bikram Das Mahant	40	Male	Senior Technician	Central Maintenance (CMD)	15.04.2024	PME0482/24
92	1022011	Lochan Pd. Dansena	44	Male	Senior Technician	Central Maintenance (CMD)	15.04.2024	PME0483/24
93	1022129	Sandeep Singh	45	Male	Engineer	Power Plant	15.04.2024	PME0484/24
94	1019989	Amresh Pandit	39	Male	Deputy Manager	Raw Materials Handling System	15.04.2024	PME0485/24
95	1022361	Jitendra Dansena	38	Male	Senior Technician	Power Plant	15.04.2024	PME0486/24
96	1022600	Vidhan Kumar Mistry	33	Male	Senior Assistant	Logistics/ PPC/CSD	16.04.2024	PME0487/24
97	1021929	Chitranandan Malakar	47	Male	Junior Officer	Logistics/ PPC/CSD	16.04.2024	PME0488/24
98	1089196	Chameshwar Kumar	29	Male	Assistant Engineer	Blast Furnace	16.04.2024	PME0489/24
99	1022511	Prabhunath Vishwakarma	37	Male	Staff	Bar Mill	16.04.2024	PME0490/24
100	1025613	Shubham Kumar Gupta	27	Male	Assistant Manager	Steel Melting Shop(SMS)	17.04.2024	PME0491/24
101	1022589	Raj Kumar Khadiya	41	Male	Staff	Central Maintenance (CMD)	18.04.2024	PME0492/24
102	1022585	Narayan Rathia	45	Male	Staff	Central Maintenance (CMD)	18.04.2024	PME0493/24
103	1022586	Arun Kumar Rathia	32	Male	Staff	Central Maintenance (CMD)	18.04.2024	PME0494/24
104	1022509	Ram Nagina Yadav	42	Male	Senior Technician	Bar Mill	18.04.2024	PME0495/24
105	1022504	Om Prakash Sharma	40	Male	Senior Technician	Bar Mill	18.04.2024	PME0496/24
106	1022590	Manjeet Singh Rathiya	39	Male	Staff	Central Maintenance (CMD)	19.04.2024	PME0497/24
107	1022591	Vishii Keshan	48	Male	Staff	Central Maintenance (CMD)	19.04.2024	PME0498/24
108	1020046	Deepak Kumar Verma	46	Male	Manager	Sinter Plant	19.04.2024	PME0499/24
109	1022388	Gandhi Sah	44	Male	Senior Technician	Bar Mill	22.04.2024	PME0500/24
110	1021855	Lakhan Lal Yadav	54	Male	Senior Technician	Steel Melting Shop(SMS)	22.04.2024	PME0501/24

111	1021748	Unni Krishanan	50	Male	Manager	Direct Reduced Iron (DRI)	22.04.2024	PME0502/24
112	1022303	Sanjay Kumar Singh	43	Male	Senior Technician	Direct Reduced Iron (DRI)	22.04.2024	PME0503/24
113	1096350	Mohammad Muquim Hussain	23	Male	Graduate Engineer Trainee	Direct Reduced Iron (DRI)	22.04.2024	PME0504/24
114	1094938	Abhitosh Tiwari	32	Male	Senior Engineer	Bar Mill	22.04.2024	PME0505/24
115	1021746	Ashok Kumar Verma	48	Male	Engineer	Central Maintenance (CMD)	22.04.2024	PME0506/24
116	1021955	Vikash Prashad	47	Male	Deputy Manager	Direct Reduced Iron (DRI)	23.04.2024	PME0507/24
117	1021988	Pradeep Rai	47	Male	Senior Technician	Central Maintenance (CMD)	23.04.2024	PME0508/24
118	1022565	Mahendra Kumar Patel	41	Male	Senior Technician	Bar Mill	24.04.2024	PME0509/24
119	1022160	Lakshmi Narayan Chandra	56	Male	Engineer	Direct Reduced Iron (DRI)	24.04.2024	PME0510/24
120	1021858	Krishna Das Mahant	54	Male	Engineer	Direct Reduced Iron (DRI)	25.04.2024	PME0511/24
121	1022548	Rajeshwar Sah	38	Male	Senior Technician	Central Maintenance (CMD)	26.04.2024	PME0512/24
122	1021974	Bhoj Ram Patel	54	Male	Junior Officer	Logistics/ PPC/CSD	26.04.2024	PME0513/24
123	1019970	Om Prakash Mahato	30	Male	Engineer	Lime Plant	26.04.2024	PME0514/24
124	1022248	Navdha Ram Sahu	54	Male	Senior Technician	Steel Melting Shop(SMS)	27.04.2024	PME0515/24
125	1022497	Anil Kumar Patel	46	Male	Senior Technician	Steel Melting Shop(SMS)	27.04.2024	PME0516/24
126	1022425	Baliram Gupta	49	Male	Senior Technician	Blast Furnace	29.04.2024	PME0517/24
127	1022462	Pushpendra Kumar Jha	42	Male	Assistant Engineer	Civil	29.04.2024	PME0518/24
128	1090442	Ambika Prasad	39	Male	Assistant Manager	Lime Plant	29.04.2024	PME0519/24
129	1020066	Rahul Singh	38	Male	Senior Manager	Steel Melting Shop(SMS)	29.04.2024	PME0520/24
130	3002128	Rakesh Kumar Bhasker	31	Male	Assistant Manager	Steel Melting Shop(SMS)	29.04.2024	PME0521/24
131	1022212	Chandra Kumar Rathore	56	Male	Technician	Central Maintenance (CMD)	30.04.2024	PME0522/24
132	1021828	Upendra Kumar Bharati	48	Male	Senior Technician	Blast Furnace	30.04.2024	PME0523/24
133	3100819	Vinod Rawat	40	Male	Deputy Manager	Central Maintenance (CMD)	02.05.2024	PME0524/24
134	1021865	Satya Prakash Tiwari	45	Male	Assistant Engineer	Direct Reduced Iron (DRI)	02.05.2024	PME0525/24
135	1022064	Vinay Kr. Dwivedi	55	Male	Assistant Officer	Bulk Raw Materials	02.05.2024	PME0526/24
136	1022103	Anil Kumar Pathak	42	Male	Technician	Steel Melting Shop(SMS)	03.05.2024	PME0527/24
137	1022424	Mukesh Kumar Patel	44	Male	Senior Technician	Steel Melting Shop(SMS)	04.05.2024	PME0528/24
138	2979972	Kishan Kumar Sahu	39	Male	Senior Engineer	steel Melting Shop(SM	04.05.2023	PME0529/24
139	1022342	Munna Kumar Soni	43	Male	Senior Technician	Raw Materials Handling System	04.05.2024	PME0530/24
140	1022450	Manoj Sharma	43	Male	Senior Technician	Blast Furnace	06.05.2024	PME0531/24
141	1022367	Amarnath Yadav	35	Male	Junior Engineer	Steel Melting Shop(SMS)	06.05.2024	PME0532/24
142	1091442	Kunal Tiwari	24	Male	Graduate Engineer Trainee	Steel Melting Shop(SMS)	06.05.2024	PME0533/24
143	1020550	Pradeep Kumar Singh	42	Male	Senior Engineer	Steel Melting Shop(SMS)	07.05.2024	PME0534/24
144	1094739	Rudrashish Satapathy	25	Male	Assistant Engineer	steel Melting Shop(SM	08.05.2024	PME0529/24
145	1022533	Rudresh Rai	29	Male	Staff	Bar Mill	08.05.2024	PME0536/24
146	1019844	Sanjay Moghe	55	Male	Deputy General Manager	Bar Mill	09.05.2024	PME0537/24

147	1022432	Udaypal Singh Tomar	45	Male	Junior Engineer	Steel Melting Shop(SMS)	09.05.2024	PME0538/24
148	1022241	Dil Chand Patel	38	Male	Technician	Blast Furnace	09.05.2024	PME0539/24
149	1022084	Anant Kumar Sidar	39	Male	Assistant Manager	Power Plant	09.10.2024	PME0540/24
150	1090926	Purshottam Sahu	30	Male	Junior Engineer	Steel Melting Shop(SMS)	09.05.2024	PME0541/24
151	1050017	Gaurav Bhargava	42	Male	Senior Manager	Steel Melting Shop(SMS)	10.05.2024	PME0542/24
152	2979700	Abhijit Sahu	36	Male	Assistant Manager	steel Melting Shop(SM	10.05.2024	PME0543/24
153	1022359	Shivnath Sahu	51	Male	Senior Technician	Central Maintenance (CMD)	10.05.2024	PME0544/24
154	1021885	Khem Raj Nayak	50	Male	Staff	Civil	10.05.2024	PME0545/24
155	2972969	Raj Kumar Prasad	54	Male	Assistant Officer	steel Melting Shop(SM	10.05.2024	PME0546/24
156	1022632	Sanjay Kushwaha	35	Male	Technician	Steel Melting Shop(SMS)	13.05.2024	PME0547/24
157	1095127	Rohit Kumar	22	Male	Graduate Engineer Trainee	Civil	13.05.2024	PME0548/24
158	1022024	Sanjay Kumar Patel	36	Male	Senior Technician	Human Resource	13.05.2024	PME0549/24
159	2976566	Braja Kishore Padhiari	43	Male	General Manager	Raw Materials Handling System	14.05.2024	PME0550/24
160	1022077	Lochan Prasad Patel	43	Male	Junior Engineer	Civil	14.05.2024	PME0551/24
161	1021815	Govind Ram Jatwar	53	Male	Technician	Civil	14.05.2024	PME0552/24
162	1021965	Kamalesh Patel	47	Male	Senior Technician	Civil	14.05.2024	PME0553/24
163	1021784	Kartik Ram	51	Male	Senior Technician	Direct Reduced Iron (DRI)	15.05.2024	PME0554/24
164	1020002	Subhakanta Deo	37	Male	Manager	Steel Melting Shop(SMS)	15.05.2024	PME0555/24
165	1087371	Rahul Jha	37	Male	Manager	Steel Melting Shop(SMS)	15.05.2024	PME0556/24
166	1019994	Tameshwar Pd. Dewangan	37	Male	Senior Engineer	Steel Melting Shop(SMS)	15.05.2024	PME0557/24
167	1022433	Amar Kumar Majhi	39	Male	Junior Engineer	Blast Furnace	16.05.2024	PME0558/24
168	1022461	Bhupendra Kumar	47	Male	Senior Technician	Civil	16.05.2024	PME0559/24
169	1094947	Tanmoy Kumar Roy	31	Male	Senior Engineer	Bar Mill	16.05.2024	PME0560/24
170	1022079	Om Prakash Dansena	46	Male	Junior Engineer	Civil	17.05.2024	PME0561/24
171	1022080	Leeladhar Das	45	Male	Junior Engineer	Civil	17.05.2024	PME0562/24
172	1025665	Ashutosh Kumar	24	Male	Assistant Manager	Steel Melting Shop(SMS)	18.05.2024	PME0563/24
173	1021773	Ravinder Singh Vilkoo	51	Male	Deputy Manager	Quality Control	18.05.2024	PME0564/24
174	1022095	Vishwanath Gautam	40	Male	Deputy Manager	Information Technology	20.05.2024	PME0565/24
175	1022111	Ganesh Das Mahant	40	Male	Junior Engineer	Civil	20.05.2024	PME0566/24
176	1094855	Smruti Ranjan Biswal	33	Male	Assistant Manager	steel Melting Shop(SM	21.05.2024	PME0567/24
177	1021883	Ajay Kr. Sahu	37	Male	Staff	Civil	21.05.2024	PME0568/24
178	1022629	Umesh Kumar	34	Male	Assistant Manager	Direct Reduced Iron (DRI)	22.05.2024	PME0569/24
179	1022475	Jay Mejar Kannaujiya	34	Male	Junior Engineer	Steel Melting Shop(SMS)	23.05.2024	PME0570/24
180	1022442	Shashikant Kumar	38	Male	Junior Engineer	Steel Melting Shop(SMS)	24.05.2024	PME0571/24
181	1021841	Alekh Ram Dansena	55	Male	Junior Engineer	Civil	24.05.2024	PME0572/24
182	1021963	Dinesh Kumar Tiwari	38	Male	Senior Technician	Civil	24.05.2024	PME0573/24
183	1019830	Gandi Narayana Murthy	53	Male	Deputy Manager	Blast Furnace	27.05.2024	PME0574/24
184	1022102	Sahit Ram Sidar	47	Male	Supervisor	Administration	27.05.2024	PME0575/24
185	2977044	Somendra Rajkumar Prajapati	44	Male	Manager	Steel Melting Shop(SMS)	27.05.2024	PME0576/24
186	1020563	Sanjay Kumar Choudhary	44	Male	Senior Engineer	Bar Mill	28.05.2024	PME0577/24
187	1022269	Sunil P. Jangde	44	Male	Senior Manager	Direct Reduced Iron (DRI)	28.05.2024	PME0578/24
188	1022159	Vinod Kumar Singh	41	Male	Assistant Manager	Direct Reduced Iron (DRI)	28.05.2024	PME0579/24
189	1022405	Shatrunjay Kumar Singh	48	Male	Senior Technician	Steel Melting Shop(SMS)	29.05.2024	PME0580/24

190	1022440	Narendra Kumar Yadav	36	Male	Junior Engineer	Blast Furnace	29.05.2024	PME0581/24
191	1022552	Vijay Suryabhan Dahaki	38	Male	Technician	Pellet Plant	29.05.2024	PME0582/24
192	1021804	Lokendra Kumar Uike	44	Male	Deputy Manager	Direct Reduced Iron (DRI)	30.05.2024	PME0583/24
193	1022078	Binod Singh	52	Male	Junior Engineer	Civil	30.05.2024	PME0584/24
194	1019657	Navin Chand	38	Male	Manager	Pellet Plant	30.05.2024	PME0585/24
195	1022426	Jani Ram Sahu	40	Male	Junior Engineer	Blast Furnace	31.05.2024	PME0586/24
196	1022463	Ratnesh Yadav	36	Male	Senior Technician	Steel Melting Shop(SMS)	31.05.2024	PME0587/24
197	1022543	Om Prakash Singh	37	Male	Senior Technician	Raw Materials Handling System	03.06.2024	PME0588/24
198	1022242	Somnath Patel	41	Male	Junior Engineer	Logistics/ PPC/CSD	03.06.2024	PME0589/24
199	1022404	Jitendra Kumar Pandit	42	Male	Technician	Steel Melting Shop(SMS)	03.06.2024	PME0590/24
200	1091354	Priyanka Lohiya	23	Female	Assistant Manager	Blast Furnace	03.06.2024	PME0591/24
201	2977273	Dharmendra Kumar Singh	57	Male	Senior Engineer	steel Melting Shop(SMS)	04.06.2024	PME0592/24
202	3001469	Nilanjan Saha	39	Male	Senior Engineer	Pellet Plant	04.06.2024	PME0593/24
203	1092896	Pradeep Kumar Singh Choudha	34	Male	Engineer	Pellet Plant	04.06.2024	PME0594/24
204	1020527	Liladhar Rajput	32	Male	Assistant Engineer	Quality Control	04.06.2024	PME0595/24
205	1022470	Shambhu Sharan Singh	40	Male	Junior Engineer	Sinter Plant	04.06.2024	PME0596/24
206	1022557	Jagadish Yadav	35	Male	Technician	Steel Melting Shop(SMS)	05.06.2024	PME0597/24
207	1020035	Sujeet Kumar Chaudhary	33	Male	Deputy Manager	Steel Melting Shop(SMS)	05.06.2024	PME0598/24
208	1087468	Mukesh Pal	31	Male	Engineer	Pellet Plant	05.06.2024	PME0599/24
209	1088268	Nitin Thakur	33	Male	Engineer	Pellet Plant	05.06.2024	PME0600/24
210	1094301	Sambit Debta	32	Male	Assistant Manager	steel Melting Shop(SMS)	06.06.2024	PME0601/24
211	1090166	Punit Ram Joshi	35	Male	Engineer	Steel Melting Shop(SMS)	06.06.2024	PME602/24
212	1021741	Vijay Kumar	46	Male	Assistant Engineer	Raw Materials Handling System	06.06.2024	PME0603/24
213	1022402	Harsha Bardhan Padhi	52	Male	Assistant General Manager	Raw Materials Handling System	06.06.2024	PME0604/24
214	1021747	Praveen Singh	49	Male	Manager	Raw Materials Handling System	06.06.2024	PME0605/24
215	1094207	Abhishek Mallik	30	Male	Assistant Manager	steel Melting Shop(SMS)	06.06.2024	PME0606/24
216	1021962	Kamleshwar Patel	43	Male	Junior Engineer	Quality Control	07.06.2024	PME0607/24
217	1022583	Dushyant Kumar Rathia	34	Male	Staff	Pellet Plant	07.06.2024	PME0608/24
218	1022124	Mani Ram Kewat	49	Male	Technician	Lime Plant	08.06.2024	PME0609/24
219	1021970	Kanhaiya Pd. Yadav	50	Male	Assistant Engineer	Raw Materials Handling System	10.06.2024	PME0610/24
220	1094900	Manoj Kumar Pradhan	33	Male	Engineer	Central Maintenance (CMD)	10.06.2024	PME0611/24
221	1022384	Umend Ram Chouhan	41	Male	Senior Technician	Raw Materials Handling System	10.06.2024	PME0612/24
222	1087379	Manish Kumar Srivastava	39	Male	Manager	Bar Mill	10.06.2024	PME0613/24
223	1094944	Raghwendra Kumar	27	Male	Engineer	steel Melting Shop(SMS)	11.06.2024	PME0614/24
224	1022380	Anand Rao Bhade	44	Male	Assistant Engineer	Bar Mill	11.06.2024	PME0615/24
225	1022305	Haridayal Singh	46	Male	Senior Technician	Bar Mill	12.06.2024	PME0616/24
226	1022492	Yashwant Kr. Singh	43	Male	Senior Technician	Bar Mill	12.06.2024	PME0617/24
227	1015659	Nilesh Upadhyay	38	Male	Manager	Pellet Plant	15.06.2024	PME0618/24
228	1088802	Ashok Lasumpuram	36	Male	Engineer	Quality Control	15.06.2024	PME0619/24
229	1022008	Tej Ram Rathiya	40	Male	Staff	Horticulture	17.06.2024	PME0620/24
230	1019841	Bankim Chandra Basu	35	Male	Engineer	Blast Furnace	17.06.2024	PME0621/24
231	1020517	Ratan Kumar Paul	46	Male	Engineer	Quality Control	17.06.2024	PME0622/24
232	1095732	Amit Kumar Jauhari	41	Male	Assistant Manager	Security & Vigilance	18.06.2024	PME0623/24
233	1022123	Rana Pratap Sagar	43	Male	Assistant Engineer	Environment, Health & Safety	18.06.2024	PME0624/24

234	1021730	Rahul Singh	44	Male	Deputy Manager	Pellet Plant	19.06.2024	PME0625/24
235	2977074	Phul Kumar Thakur	56	Male	Assistant General Manager	steel Melting Shop(SMS)	21.06.2024	PME0626/24
236	1021950	Dadu Ram Kaushik	49	Male	Junior Engineer	Direct Reduced Iron (DRI)	21.06.2024	PME0627/24
237	1024551	Ankit Ranjan	29	Male	Senior Engineer	Civil	22.06.2024	PME0628/24
238	1087532	Nikita Kumari	26	Female	Junior Engineer	Purchase & Commercial	22.06.2024	PME0629/24
239	1022200	Akhilesh Kumar Dubey	49	Male	Junior Engineer	Central Utilities	25.06.2024	PME0630/24
240	1022105	Yog Prakash Dwivedi	37	Male	Assistant Engineer	Environment, Health & Safety	28.06.2024	PME0631/24
241	1022323	Prakash M. Badwaik	36	Male	Junior Engineer	Environment, Health & Safety	28.06.2024	PME0632/24
242	1096348	Aman	24	Male	Graduate Engineer Trainee	steel Melting Shop(SMS)	01.07.2024	PME0633/24
243	1022030	Naresh Kr. Bhatt	40	Male	Staff	Horticulture	01.07.2024	PME0634/24
244	1022026	Sunau Ram	44	Male	Staff	Horticulture	01.07.2024	PME0635/24
245	1022070	Bed Ram Rathiya	53	Male	Staff	Horticulture	01.07.2024	PME0636/24
246	1022503	Jitendra Sharma	41	Male	Technician	Bar Mill	01.07.2024	PME637/24
247	1090932	Sevi Sunil Dewarwar	23	Female	Assistant Manager	Blast Furnace	01.07.2024	PME0638/24
248	1022592	Shyam Lal Rathiya	57	Male	Staff	Horticulture	02.07.2024	PME0639/24
249	1022012	Ram Ratan Kharia	42	Male	Staff	Horticulture	02.07.2024	PME0640/24
250	1022035	Raju Kumar Majhi	39	Male	Staff	Horticulture	03.07.2024	PME0641/24
251	1022246	Anil Kumar Rathiya	34	Male	Staff	Horticulture	03.07.2024	PME0642/24
252	1022355	Rohit Kumar Chouhan	32	Male	Staff	Horticulture	03.07.2024	PME0643/24
253	1022027	Munna Lal Patel	41	Male	Staff	Horticulture	03.07.2024	PME0644/24
254	1022113	Ramesh Kumar Rathore	50	Male	Junior Officer	Horticulture	04.07.2024	PME0645/24
255	1022437	Bhabatosh Das	37	Male	Junior Engineer	Blast Furnace	05.07.2024	PME0646/24
256	1022624	Padum Das Mahant	53	Male	Staff	Horticulture	05.07.2024	PME0647/24
257	1021921	Sandeep Kumar Rai	53	Male	Senior Technician	Blast Furnace	05.07.2024	PME0648/24
258	1091440	Zuha Wani	22	Female	Assistant Manager	Logistics/ PPC/CSD	05.07.2024	PME0649/24
259	1016862	Prashant Kumar Dutta	53	Male	Manager	Purchase & Commercial	06.07.2024	PME0650/24
260	1022395	Prakash Mohan Mishra	47	Male	Assistant Officer	Purchase & Commercial	08.07.2024	PME0651/24
261	1034573	Ashish Verma	41	Male	Senior Manager	Bar Mill	08.07.2024	PME0652/24
262	1022518	Basisth Kumar Dubey	49	Male	Junior Engineer	Pellet Plant	09.07.2024	PME0653/24
263	1020111	Vikash Kumar Singh	42	Male	Assistant Manager	Quality Control	09.07.2024	PME0654/24
264	1021892	Khem Pd. Jaiswal	42	Male	Junior Engineer	Quality Control	16.07.2024	PME0655/24
265	1022206	Moolchand Patel	40	Male	Technician	Direct Reduced Iron (DRI)	17.07.2024	PME0656/24
266	1021846	Sukh Sagar Dansena	43	Male	Senior Technician	Quality Control	17.07.2024	PME0657/24
267	1022279	Chitra Kumar Sinha	38	Male	Technician	Quality Control	17.07.2024	PME0658/24
268	1021762	Manoj Kumar Rahul	40	Male	Staff	Human Resource	17.07.2024	PME0659/24
269	1022451	Devi Prasad Agrawal	47	Male	Junior Officer	Finance & Accounts	18.07.2024	PME0660/24
270	1021979	Ravindra Ku. Dansena	43	Male	Assistant Manager	Sinter Plant	18.07.2024	PME0661/24
271	1090692	Sakshi Chandrakar	24	Female	Assistant Manager	Quality Control	20.07.2024	PME0662/24
272	1022310	Lalji Choudhary	40	Male	Crain Operator	Steel Melting Shop(SMS)	26.07.2024	PME0663/24
273	1022581	Ajendra Kumar	46	Male	Junior Engineer	Bar Mill	26.07.2024	PME0664/24
274	1022322	Sanjay Kumar	39	Male	Junior Engineer	Environment, Health & Safety	30.07.2024	PME0665/24
275	1090942	Adrash Kumar	23	Male	Assistant Manager	Steel Melting Shop(SMS)	30.07.2024	PME0666/24
276	1022167	Nakul Ram Chouhan	54	Male	Technician	Steel Melting Shop(SMS)	01.08.2024	PME0667/24
277	1022336	Sila Chandra Ekka	49	Male	Senior Technician	Steel Melting Shop(SMS)	02.08.2024	PME0668/24
278	1022213	Dilip Kumar Dinkar	42	Male	Junior Engineer	Direct Reduced Iron (DRI)	02.08.2024	PME0669/24
279	1096335	Bishnu Prasad Nayak	35	Male	Junior Engineer	Environment, Health & Safety	05.08.2024	PME0670/24
280	1021721	Shrwan Kumar Dewangan	42	Male	Deputy Manager	Direct Reduced Iron (DRI)	05.08.2024	PME0671/24

281	1021742	Tek Ram Yadav	44	Male	Senior Technician	Direct Reduced Iron (DRI)	06.08.2024	PME0672/24
282	1019664	Manoj Kumar Samantaray	40	Male	Deputy Manager	Pellet Plant	07.08.2024	PME0673/24
283	1021915	Ramchandra Vishwakarma	40	Male	Senior Technician	Direct Reduced Iron (DRI)	08.08.2024	PME0674/24
284	1022333	Basant Patel	35	Male	Senior Technician	Direct Reduced Iron (DRI)	12.08.2024	PME0675/24
285	1020658	Amit Kumar Dewangan	32	Male	Assistant Manager	Steel Melting Shop(SMS)	12.08.2024	PME0676/24
286	1021867	Om Prakash Sahu	57	Male	Engineer	Direct Reduced Iron (DRI)	13.08.2024	PME0677/24
287	1022028	Budhiyar Sai	48	Male	Staff	Horticulture	16.08.2024	PME0678/24
288	1022013	Vidya Nand Patel	52	Male	Junior Engineer	Quality Control	16.08.2024	PME0679/24
289	1022338	Niraj Kumar Singh	43	Male	Junior Engineer	Environment, Health & Safety	19.08.2024	PME0680/24
290	1022266	Neeraj Kumar Garg	53	Male	Assistant General Manager	Oxygen Plant	22.08.2024	PME0681/24
291	1021767	Pradeep Kumar Bhagat	48	Male	Assistant Manager	Direct Reduced Iron (DRI)	23.08.2024	PME0682/24
292	1091355	Atul Yadav	38	Male	Assistant Manager	Energy Management Department (EMD)	27.08.2024	PME0683/24
293	1022422	Dharam Deo Yadav	50	Male	Junior Engineer	Blast Furnace	27.08.2024	PME0684/24
294	1022521	Rajeev Kumar Thakur	35	Male	Mould Operator	Steel Melting Shop(SMS)	28.08.2024	PME0685/24
295	1095230	Aaditya Gyan	24	Male	Assistant Manager	steel Melting Shop(SMS)	30.08.2024	PME0686/24
296	1022192	Yashpal Choudhery	39	Male	Engineer	Direct Reduced Iron (DRI)	03.09.2024	PME0687/24
297	1022244	Naresh Kumar Mahilane	35	Male	Job Hand	Central Utilities	03.09.2024	PME0688/24
298	1022202	Amitabh Patnaik	46	Male	Engineer	Direct Reduced Iron (DRI)	04.09.2024	PME0689/24
299	1021893	Dev Narayan Dansena	51	Male	Staff	Direct Reduced Iron (DRI)	06.09.2024	PME0690/24
300	1025612	Dharavath Sai	25	Male	Assistant Manager	Sinter Plant	07.09.2024	PME0691/24
301	1022207	Pareekshit Patel	40	Male	Technician	Direct Reduced Iron (DRI)	09.09.2024	PME0692/24
302	1022018	Raj Kr. Sahu	40	Male	Staff	Direct Reduced Iron (DRI)	09.09.2024	PME0693/24
303	1022577	Baliram Kumar Prasad	34	Male	Technician	Bar Mill	09.09.2024	PME0694/24
304	1022635	Santosh Kumar Sahu	32	Male	Technician	Central Maintenance (CMD)	11.09.2024	PME0695/24
305	1022010	Resham Lal Rathia	47	Male	Job Hand	Human Resource	11.09.2024	PME0696/24
306	1021852	Raghunath Samantray	52	Male	Assistant Engineer	Central Maintenance (CMD)	11.09.2024	PME0697/24
307	1022579	Vikash Vaishnav	37	Male	Junior Technician	Sinter Plant	16.09.2024	PME0698/24
308	1019656	Prashant Soni	33	Male	Deputy Manager	Pellet Plant	16.09.2024	PME0699/24
309	1022507	Sanatan Dash	38	Male	Technician	Bar Mill	18.09.2024	PME0700/24
310	1022073	Yad Ram Patel	55	Male	Deputy Manager	Legal & Secretarial	18.09.2024	PME0701/24
311	1021975	Sujit Kr. Naik	44	Male	Assistant Manager	Blast Furnace	18.09.2024	PME0702/24
312	1020056	Rajiv Kumar Kundu	37	Male	Manager	Blast Furnace	18.09.2024	PME0703/24
313	1024255	Sanjay Kumar Das	55	Male	Assistant General Manager	Purchase & Commercial	19.09.2024	PME0704/24
314	1022622	Brij Mohan	40	Male	Senior Technician	Bar Mill	19.09.2024	PME0705/24
315	1022249	Dilesh Kumar Barman	53	Male	Assistant Engineer	Bar Mill	19.09.2024	PME0706/24
316	1022109	Setcharan Patel	56	Male	Deputy Manager	Raw Materials Handling System	19.09.2024	PME0707/24
317	1021909	Khageshwar Prasad Sahu	42	Male	Assistant Officer	Logistics/ PPC/CSD	20.09.2024	PME0708/24
318	1022108	Jawahar Lal Bareth	48	Male	Deputy Manager	Raw Materials Handling System	20.09.2024	PME0709/24
319	1021994	Santosh Rathore	47	Male	Junior Engineer	Raw Materials Handling System	20.09.2024	PME0710/24

320	1022546	Raghubeer Prasad Rathore	48	Male	Manager	Bulk Raw Materials	20.06.2024	PME0711/24
321	1020661	Vijay Kumar Dwivedi	39	Male	Manager	Bar Mill	20.09.2024	PME0712/24
322	1021853	Nileshwar Prasad Chandra	44	Male	Assistant Engineer	Direct Reduced Iron (DRI)	23.09.2024	PME0713/24
323	1022580	Ravi Kumar Gavel	30	Male	Technician	Bar Mill	23.09.2024	PME0714/24
324	1022560	Umesh Nagle	35	Male	Technician	Bar Mill	23.09.2024	PME0715/24
325	1021908	Hemant Kumar Densena	45	Male	Junior Engineer	Raw Materials Handling System	24.09.2024	PME0716/24
326	1094482	Santosh Kumar Haldhar	40	Male	Senior Engineer	Bar Mill	24.09.2024	PME0717/24
327	1022191	Purushottam Kumar Baghel	36	Male	Engineer	Direct Reduced Iron (DRI)	24.09.2024	PME0718/24
328	1021713	Hari Shankar Vaishnav	53	Male	Senior Technician	Raw Materials Handling System	24.09.2024	PME0719/24
329	1022594	Dev Singh Rathiya	57	Male	Staff	Raw Materials Handling System	24.09.2024	PME0720/24
330	1021801	Sohan Lal Rathore	51	Male	Senior Technician	Raw Materials Handling System	24.09.2024	PME0721/24
331	1022293	Sunil Kumar	51	Male	Senior Technician	Bar Mill	24.09.2024	PME0722/24
332	1022265	Puneet Sharma	50	Male	Deputy Manager	Bar Mill	24.09.2024	PME0723/24
333	1022564	Sunil Kumar Basone	40	Male	Technician	Bar Mill	24.09.2024	PME0724/24
334	1034030	Chinmoy Mohanty	44	Male	Senior Manager	Lime Plant	24.09.2024	PME0725/24
335	1021996	Dharmendra Kumar Sahu	49	Male	Staff	Raw Materials Handling System	25.09.2024	PME0726/24
336	1022572	Satyendra Kumar Singh	48	Male	Senior Technician	Bar Mill	25.09.2024	PME0727/24
337	1033871	Vishwanath Sharma	51	Male	Senior Engineer	Quality Control	25.09.2024	PME0728/24
338	1022294	Prem Gope	38	Male	Senior Technician	Bar Mill	25.09.2024	PME0729/24
339	1021823	Puni Ram Kumhar	57	Male	Junior Engineer	Raw Materials Handling System	25.09.2024	PME0730/24
340	1022326	Raj Kumar Singh	51	Male	Senior Technician	Bar Mill	26.09.2024	PME0731/24
341	1022002	Dharam Pal Patel	44	Male	Technician	Raw Materials Handling System	26.09.2024	PME0732/24
342	1022182	Md. Khalique Khan	39	Male	Senior Technician	Raw Materials Handling System	26.09.2024	PME0733/24
343	1020073	Sujita Kumar Sabat	34	Male	Manager	Purchase & Commercial	26.09.2024	PME0734/24
344	1020542	Rajesh Kumar	44	Male	Senior Engineer	Quality Control	27.09.2024	PME0735/24
345	1022455	Pardeshi Dewangan	39	Male	Junior Engineer	Raw Materials Handling System	27.09.2024	PME0736/24
346	1048436	Dhal Singh	31	Male	Assistant Engineer	Bar Mill	27.09.2024	PME0737/24
347	1022090	Chaitanya Kumar Rathore	40	Male	Assistant Manager	Direct Reduced Iron (DRI)	27.09.2024	PME0738/24
348	1021812	Aniruddha Sidar	44	Male	Deputy Manager	Direct Reduced Iron (DRI)	27.09.2024	PME0739/24
349	1022495	R.K.Singh	54	Male	Assistant General Man	Raw Materials Handling System	27.09.2024	PME0740/24
350	1095750	Iman Kumar	34	Male	Engineer	Lime Plant	27.09.2024	PME0741/24
351	1090941	Akash Raghav	24	Male	Assistant Manager	Blast Furnace	27.09.2024	PME0742/24
352	1021822	Nand Kumar Patel	58	Male	Assistant Engineer	Direct Reduced Iron (DRI)	30.09.2024	PME0743/24
353	1022399	Rajkumar Rajak	43	Male	Junior Engineer	Bar Mill	30.09.2024	PME0744/24
354	1020865	Rana Pratap Singh	36	Male	Junior Engineer	Raw Materials Handling System	30.09.2024	PME0745/24

ANNEXURE-V

JSW STEEL LIMITED, RAIGARH

DATA DISPLAYED AT MAIN GATE

(Main Gate)

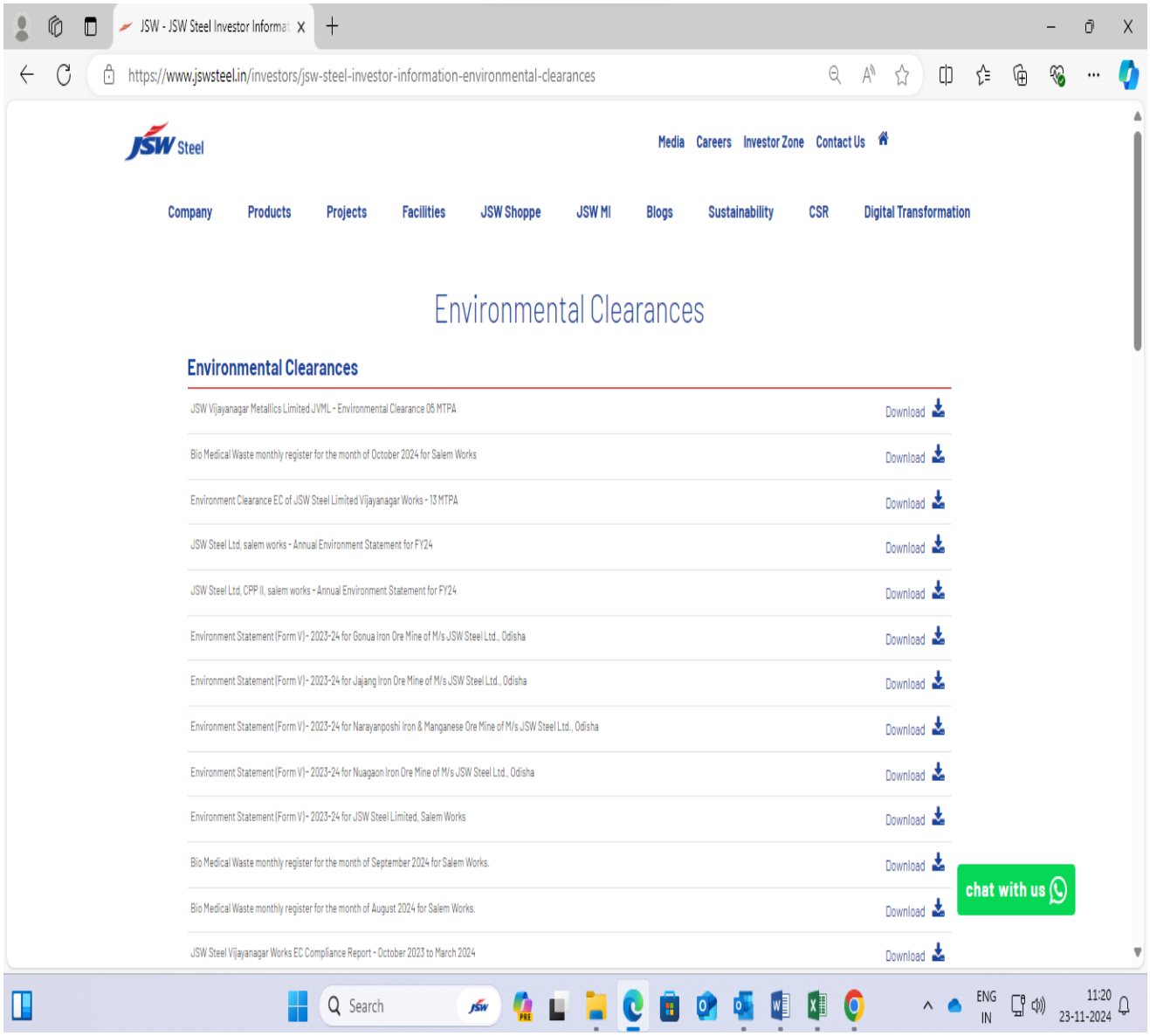
Collector Office, Raigarh

ANNEXURE-VI

JSW STEEL LIMITED, RAIGARH

DATA PUBLISHED IN WEBSITE

https://www.jswsteel.in/investors/jsw-steel-investor-information-environmental-clearances



Annexure-VII

Green Belt Development Inside JSW plant