Environment Naharpali <env.naharpali@jsw.in>

Submission of EC Compliance report (Oct, 22 to March 23) w.r.t. F.No. J-11011/196/2007 IA II (I); 2007, 2011 & 2017

2 messages

Environment Naharpali <env.naharpali@aionjsw.in> Tue, May 30, 2023 at 6:13 PM
To: eccompliance-cg@gov.in
Cc: Mangaraju Muralidhar Rao <muralidhar.rao@aionjsw.in>

Dear Sir,
This is a reference to the Environmental Clearance granted vide F.No. J 11011/196/2007 IA II (I); Dated: 26.12.2007; 31.03.2011 and 13.04.2017, Please find attached the EC Compliance report for the period of October, 2022 to March,2023 with respect to JSW Ispat Special Products Limited, Naharpali, Raigarh (C.G.)

This is for your kind perusal and necessary record.

Regards,

Team Environment

JSW Ispat Special Products Limited.
Villl/Post - Naharpalli, Raigarh 496661,

Chhattisgarh, India

07762-2511005 &251106

EC Compliance Report (Oct-22 to March-23).pdf
18606K

Environment Naharpali <env.naharpali@aionjsw.in> Fri, Aug 18, 2023 at 6:49 PM
To: Mangaraju Muralidhar Rao <muralidhar.rao@jsw.in>

Regards,

Team Environment

JSW Steel Limited.
Villl/Post - Naharpalli, Raigarh 496661,

Chhattisgarh, India

07762-2511005 &251106
[Quoted text hidden]

EC Compliance Report (Oct-22 to March-23).pdf
18606K

JSW Ispat Special Products Limited

Village & P.O.: Naharpali, Tehsil : Kharsia, Raigarh-496 661 (Chhattisgarh)
CIN : L02710MH1990PLC363582, GST : 22AAACM0501D1ZK
Phone : +91 7762 275 502/ 03/ 04, +91 7762 251 000/ 100 **Fax :** +91 7762 275 505
E-mail : raigarh@aionjsw.in **Website :** www.aionjsw.in

JSWISPL/EMD/NP/534/2023

Date: 26.05.2023

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 October, 2022 to March-2023 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.

Dear Sir,

Please find enclosed herewith Six Monthly Compliance Report along with Environmental Monitoring Reports for the period of October, 2022 to March, 2023 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 and 13.04.2017 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 you.

Yours faithfully,

For **JSW ISPAT SPECIAL PRODUCTS LTD.**

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.)*

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 Ispat Special Products Limited**
3	Clearance letter(s) / OM no. and date		J-11015/196/2007.1A.II(I), 26.12.2007; 31.03.2011 and 13.04.2017.
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 Ispat Special Products Limited** 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 Ispat Special Products Limited** Village & Post-Naharpali, Tehsil-Kharsia Dist. Raigarh-496661; Ph. 07762-251105 Email: env.naharpali@aionjsw.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 & year of survey)	:	227.84 Hectares
9	Financial details: Project cost as originally planned and subsequent revised estimates and the year of price reference.	:	2025 Crores (as on 2007)

	a) Allocation made for environmental management plans with item wise and year wise break-up.	:	
	b) Benefit cost ratio / internal rate of return and the year of assessment.	:	
	c) Whether (c) includes the cost of environmental management as shown in the above.	:	Yes
	d) Actual expenditure incurred on the project so far.	:	6917.20 Crore
	Actual expenditure incurred on the environmental management plans so far.	:	6.5 Crore
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 Ispat Special Products Limited (Formerly known as Monnet Ispat & Energy Ltd.) is located at village-Naharpali, 25 Km away from district headquarter Raigarh (Chhattisgarh). This was taken over by Aion capitals and JSW Steel Ltd., in September, 2020 from Monnet Ispat and Energy Limited.

Salient features;

- ISO 9001:2015 14001:2015 & 45001:2018 Certified Company.
- JSW Ispat Special Products Limited 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 Jharsugura (Odissa) about 84 KM away.
- Latitudes 21°58'27" & 21°59'30" & Longitudes 83°13'31" & 83°14'55" and height from mean Sea level is 219 m.
- Max. Temp.: 47 °C and Avg. Rainfall is 1400 mm (2022-23).
- Mahanadi River is the main source of water.

About the JSW Group

The JSW Group is known across the country as "Strategic first mover". The company occupies a pivotal part of the O.P. Jindal Group that has emerged as an undisputable world leader in a short span of three decades. Some of the key elements that define the JSW Group are:

- JSW Group is spearheading initiatives in core sectors like Steel, Energy, Cement, Infrastructure, Ventures & Sports.
- It has a diverse workforce of over 40,000 individuals.
- The Group has proven to play a significant role in the growth of the country.

About JSW Ispat Special Products Limited (JSWISPL)

JSW Ispat Special Products 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 Ispat Special Products Limited has its corporate office at Art Guild house, A-Wing 2nd Floor, Unit No. 13, Phoenix Mall Compound, LBS Marg, Kurla West, Mumbai-400 070.

JSWISPL have following production configuration:

SN.	Units	Capacity
1	Pellet Plant	2.20
2	Sponge Iron Unit (DRI)	0.50
3	Blast Furnace	0.70
4	Sinter Plant	0.75
5	Steel Melting Shop	1.74
6	Rolling Mill	0.45
7	Plate mill	0.75
8	Coal Beneficiation Plant	1.00
9	Oxygen Plant	0.13
10	Power Plant	170 MW
11	DG Set	2 x1500 KVA

All the values are in MTPA except Power Plant and DG sets

Board of Directors

The Board of JSW Ispat Special Products Limited comprises following Directors:

1. Mr. Jyotin Kantilal Mehta
2. Mrs. Anuradha Ambar Bajpai
3. Mr. Paresh Shah
4. Mr. Nikhil Gahrotra
5. Mr. Kaushik Subramaniam
6. Mr. Krishna Deshika
7. Mr. Naresh Kumar Lalwani

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 Ispat Special Products Limited 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.
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 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 Filter 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 ▪ SP 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, however following measure have been adopted for abatement of pollution. ▪ Fine atomizer nozzles arrangement has been provided on the coal heaps and on the screen houses and near crushers. ▪ Water sprinkling will be done at all strategic coal transfer points such as conveyors, loading/unloading points, conveyor transfer points etc. ▪ Apart from this, we have a provision of bag filters at the coal crushers with adequate water sprinkling arrangement subjected on good fugitive emission control. Vehicular movement in the coal washery area will be regulated effectively to avoid traffic congestion. ▪ Area, in and around the coal washery will be made pucca either asphalted or concreted to reduce the fugitive emissions. ▪ Green belt is being developed around the coal washery area.

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	Neutralising 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	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 and Wire rod mill	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	▪ In DRI Kilns Cooling water is being recycled into the process by air cooling.

Plant,	▪ 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, Coal cleaning in coal washery plant 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, however following measure have been adopted for abatement of water pollution. ▪ Effluent from the washery will be treated in effluent treatment plant and the treated effluent will be recirculated. ▪ The washery will be worked as a Zero Discharge Unit. The media water after being used for washery and all the suspended particulate matter would be squeezed and the clear water is recycled back to the process. ▪ The underflow concentrate from the thickener is pumped to the vacuum disc type filter. ▪ The filtrate along with any wash water is re-circulated back to the system thereby ensuring the close circuit of the system. ▪ The treated waste water will be under the prescribed limits and will be recycled back continuously thereby maintaining Zero Effluent Discharge from Coal Washery area.

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

JSWISPL 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 and filling of abandoned mines
	Kiln Accretion	Road making
POWER PLANT	Fly ash	Brick manufacturers, cement plant and filling of abandoned mines
	Bottom Ash	
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 used for land compaction/ road making etc.
	LRF Slag	Used in land filling/road embankment.
	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.
	GCP Dust	Re-used in Sinter Plant by charging along with raw materials.
Bar Mill	End cutting/Mill scale	Reused in Sinter/SMS unit

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 dated F. No. J11011/196/2007- IA II (I) dated 26th Dec, 2007

SN	Condition	Status as on 31.03.2023
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/Nm^3. 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).	▪ Pollution control equipment like ESP, Bag filters has 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 utilizes as a fuel in re-heating furnaces and Palletization plant. ▪ 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.	Central de-dusting system has been provided in Blast furnace cast house and stock area to control secondary fugitive emission. In Sinter plant, adequate and highly efficient Bag filters 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 m^3/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.	Agreed and complied. 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. 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 maintaining, 'Zero Effluent Discharge'.
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.	Permission for drawl of ground water from CGWA/CGWB have been granted vide NOC CGWA/NOC/IND/ORIG/2020/7569; dated 02.03.2022 (renewal awaited). 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	▪ All the char from generated from DRI plant is being utilized in AFBC Boiler in Captive power unites.

	anywhere else. The other entire solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. ESP fly ash and bag filter 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 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.	▪ Hazardous waste disposed-off to only CPCB Authorized vendor. ▪ Fly ash /ESP dust is being supplied to bricks/ blocks manufactures, cement manufactures and to fill abandoned stone mine quarries. ▪ Mill scale generated from Rolling mill is used in the SMS unit. ▪ Granulated slag generated from Blast Furnace unit is being supplied to cement manufacturing 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 period. ▪ 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 as a soil conditioner in horticulture activities.
vi	All the fly ash shall be utilized as per fly Ash Notification. 1999 and subsequently amendment in 2003.	Fly ash generated from power generation units is being utilized 100% in brick, cement manufacturing Unit, ash utilized for 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.	Till now we have planted 185700 plants in and around our premises including fruit bearing saplings.
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 please.
ix	All the recommendations made in the charter on Corporate Responsibility for Environment protection (CREP) for the steel sector shall be strictly implemented.	Noted please.
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.	Accepted. 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 should be carried out without prior approval of the Ministry of Environment and forests.	Accepted.
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.	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.

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.	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 the collected dust 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, SO_2 and NO_x 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.	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 waste water shall be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19th May 1933 and 31st December 1933 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Acidic and alkaline wastewater from demineralization 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 STP and treated waste water is utilized in green belt development activities maintaining, 'Zero Effluent Discharge'.
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)	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.	Regular health check-up of all workers is being carried out and record is being maintained. **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.	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 programmes, educational programs, drinking	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.

	water supply and health care etc.	
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.	Separate funds have been allocated for environmental protection measures and implementing the conditions stipulated by MoEFCC 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.	Agreed. 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. **JSWISPL/EMD/NP/506/2022; Date: 22.11.2022**
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 CSEB and may also be seen as website of the Ministry of Environment and Forests at http://enfor.nic.in This shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Complied
ix	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

No	Condition	Status as on Status as on 31.03.2023
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.	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.	Agreed. 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.	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. **JSWISPL/EMD/NP/506/2022; Date: 22.11.2022**
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.	The environmental statement and status of compliance of environmental conditions is being submitted to the State Pollution Control Board, Raipur and Regional office, MoEF, Nagpur in stipulated time frame. Last Environmental Statement has been submitted vide letter no **JSWISPL/NP/EMD/497/2022;** dated: **27.09.2022** Status of compliance of environmental conditions along with monitoring report have also been published in company's website at *www.aionjsw.in*. **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.	Noted

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

SN	Specific Condition	Status as on 31.03.2023
1.	The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.	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.	Agreed
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.	Agreed. 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).	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.	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.	Agreed. 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 maintaining, 'Zero Effluent Discharge'. 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).	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.	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.	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 prograrnmes, educational programmes, drinking water supply & health care etc.	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 (MoEFCC) 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.	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 MoEFCC 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 shall also be put on the web site of the company by the proponent.	Agreed
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	Agreed 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. **Annexure-V** The data along with compliance report have also been published in company's website at www.aionjsw.in **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 MOEFOC, the respective Zonal Office of CPCB and the SPCB, The Regional Office of this Ministry at Nagpur / CPCB / SPCB shall monitor the stipulated conditions.	Six monthly compliance reports along with monitoring data are being submitted to the Ministries regional office in soft & hard copies regularly. Last compliance report submitted vide letter no. **JSWISPL/EMD/NP/506/2022; Date: 22.11.2022**
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	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. **JSWISPL/NP/EMD/497/2022;** dated: **27.09.2022**

	environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.	Status of compliance of environmental conditions also sent to the respective Regional Office of the MOEFCC at Nagpur by via email dated, Sep, 2022
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

end of report*

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– मेसर्स्स 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 क्र.–5594/29/31/93/म/औजप्र/डी–4,रायपुर, दिनांक 01.09.2003 ।
2. आपका पृ. क्र.–911/21/मा/प्र–2/बिलासपुर, दिनांक 08.07.2004 । (2-57)

–00–

विषयांतर्गत प्रकरण में छत्तीसगढ़ शासन, जल संसाधन विभाग के संदर्भित पत्र क्रमांक–1 द्वारा जारी 5 एम.जी.डी. जल आबटन 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 विरुद्ध किसी प्रकार का दावा मान्य नहीं होगा ।

MONNET ISPAT & ENERGY LIMITED

(AUTHORISED SIGNATORY)

Executive Engineer

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)

विशेष कर्तव्यस्थ अधिकारी,
जल संसाधन विभाग,
मंत्रालय, रायपुर

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ANNEXURE-IIA

JSW ISPAT SPECIAL PRODUCTS LIMITED

AMBIENT AIR QUALITY MONITORING REPORT

PERIOD : OCTOBER-2022 TO MARCH -2023

Station Name/ Parameter	CAAQMS-I					CAAQMS-II					CAAQMS-III					CAAQMS-IV				
	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_X	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_X	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_X	PM_{10}	$PM_{2.5}$	CO	SO_2	NO_X
MONTH	RESULTS in $\mu g/m^3$; Prescribed Standard: PM_{10}-100 $\mu g/m^3$ $PM_{2.5}$-60 $\mu g/m^3$; SO_2 & NOx-80 $\mu g/m^3$ and CO-2.0 mg/8Hr.																			
OCT-22	44.8	26.0	0.6	11.6	56.8	69.9	10.0	0.6	12.6	30.6	45.9	21.6	0.8	5.5	34.4	76.0	39.6	0.7	13.3	34.5
NOV-22	26.0	14.4	0.6	9.6	19.0	81.7	13.7	0.9	4.9	29.3	35.1	19.6	0.8	4.9	28.5	48.4	20.4	0.5	16.9	31.2
DEC-22	39.1	14.9	0.6	9.0	25.1	74.8	12.5	1.1	10.3	28.3	40.6	18.2	0.8	5.1	8.2	44.7	27.0	0.5	8.1	26.0
JAN-23	48.5	25.5	0.4	6.3	27.6	42.5	27.0	0.1	9.8	19.7	22.6	21.8	0.8	5.4	28.1	66.1	24.1	0.6	12.3	30.5
FEB-23	53.3	34.2	0.3	6.1	21.6	52.9	44.4	0.5	8.8	17.6	31.6	20.0	0.7	6.3	26.9	39.1	20.9	0.3	20.7	30.1
MAR-23	55.7	32.1	0.3	7.4	30.3	78.6	26.9	0.5	9.8	17.7	75.3	46.9	0.7	7.4	28.1	53.0	19.9	0.6	12.2	27.6
• System under maintenance																				

HOD(EHS)

ANNEXURE-IIB

JSW ISPAT SPECIAL PRODUCTS LIMITED

STACK EMISSION MONITORING REPORT

PERIOD : OCTOBER-2022 TO MARCH-2023

Station Name/Parameter	DRI Stack 1 (Kiln 1&Kiln 2)		DRI Stack 2 (Kiln 3 & Kiln 4)		DRI Stack 3 (Kiln 5 & Kiln 6)		STACK-4 (CCP AFBC)			STACK-5 (CCP CFBC)			STACK-6 (Pallet Plant)	STACK-7 (Rolling Mill)	STACK-8 (Blast Fur.)	STACK-9 (Sinter Plant)	STACK-10 (SMS)
	SO_2	PM	SO_2	PM	SO_2	PM	SO_2	NOx	PM	SO_2	NOx	PM	PM	PM	PM	PM	PM
MONTH	RESULTS in mg/Nm^3; Prescribed Standard: PM- 50 mg/Nm^3 ; SO_2-600 mg/Nm^3 and NOx-300 mg/Nm^3																
OCT-22	193.7	39.0	216.3	41.1	225.8	42.7	*	*	*	*	*	*	*	*	*	*	*
NOV-22	172.8	30.0	214.5	32.0	207.6	41.0	255.4	125.7	41	258.1	126.0	36.0	41.0	*	30.0	32.0	26.0
DEC-22	152.4	38.6	178.3	39.3	186.4	41.2	345.3	121.2	37.5	*	*	*	32.5	*	31.8	35.1	30.6
JAN-22	170.9	35.1	182.6	38.6	159.4	43.6	275	147.3	36.8	310.3	161.4	40.0	35.7	*	33.8	33.4	30.9
FEB-22	137.5	36.8	143.6	37.4	149	47.3	325.1	131.8	39.5	279.2	119.9	43.1	38.6	*	30.4	37.9	27.6
MAR-22	127.3	46.2	132.1	39.5	119.8	43.3	305.6	147.1	46.8	290.8	135.4	45.8	41.2	12.8	26.4	29.2	27.6

** Unit Closed*

HOD(ENS)

ANNEXURE-IIIA

NOISE LEVEL MONITORING REPORT

WORK ZONE & AMBIENT-DAY TIME; (OCTOBER-2022 TO MARCH-2023)

SN	LOCATION	MONTH					
		OCT-22	NOV-22	DEC-22	JAN-23	FEB-23	MAR-23
POWER PLANT							
1	TG 2	82.9	82.6	80.4	79.9	82.9	83.7
2	TG 3	73.2	83.5	81.2	83.7	80.4	83.4
3	Boiler 80 MW	65.9	84.6	71.8	74.3	77.3	81.8
4	CHP Unit	57.9	84.2	69.7	78.4	69.9	64.3
SPONGE IRON DIVISION							
5	Near Kiln # 1	76.6	75.9	74.8	75.2	75.8	75.9
6	Near Kiln # 3	78.4	77.3	81.3	75.8	75.3	75.4
7	Near Kiln # 6	74.2	78.8	76.9	73.4	73.9	74.4
8	RMH Unit	57.9	69.9	68.4	67.5	72.9	68.9
10	PSB Area	75.9	78.2	76.8	74.7	69.5	77.2
SINTER PLANT*							
11	ESP Area	64.3	78.7	73.1	74.9	76.3	79.4
12	Sinter Cooler Area	53.2	81.6	81.9	80.2	77.9	79.2
13	Control room	54.5	63.5	60.1	60.1	59.2	58.2
SMS							
14	Near EAF	67.4	80.9	79.3	78.4	83.4	82.3
15	Near LRF	73.1	79.8	76.2	76.9	82.2	83.4
16	Billet caster	70.8	81.6	69.1	71.2	74.7	80.2
BLAST FURNACE							
17	Blast Furnace Control room	59.4	76.1	56.6	58.3	58.9	56.8
18	BF Stove (Cast House)	56.6	82.2	74.5	73.8	78.9	78.9
19	Pump House	59.9	82.9	73.9	72.9	83.2	83.9
ROLLING MILL							
20	Reheating Area	69.4	74.9	63.9	67.9	80.1	76.7
21	CNC Room	58.4	58.3	52.3	53.4	71.1	76.4
22	Cooling Bed	60.7	68.7	63.1	58.4	81.5	83.2
PELLET PLANT							
23	Near Ball Mill	72.8	66.7	72.9	74.4	79.2	74.8
24	Near Indurating Furnace	73.4	69.3	83.2	81.7	83.4	83.7
25	Gas Booster	66.7	70.2	79.9	72.9	71.8	78.3
26	Near Thickener	70.8	68.3	75.3	77.9	77.2	82.6
AMBIENT NOISE LEVEL MONITORING REPORT							
1	Main Gate (Outside)	58.3	64.2	50.9	61.8	60.9	58.9
2	Gate No. 2 (Near WTP-2)	47.4	50.1	71.5	73.1	61.5	57.8
3	Gate-3 (Near Pellet Plant)	52.5	58.6	58.9	76.2	62.4	69.7
4	Colony Gate	56.2	46.4	45.4	49.6	58.7	48.5

** Unit Closed and All values are in **dB(A)***

HOD(EHS)

ANNEXURE-III (B)

WASTE WATER ANALYSIS REPORT
(OCTOBER 2022 TO MARCH-2023)

SL. N.	Characteristics	Permissible Limits	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			Sample Results											
			Effluent Recycle System (ERS)						Sewage Treatment Plant (STP)					
1	Temperature	Not more than 5°C to intake water	29.3	28.2	25.8	22.4	26.2	28.4	29.8	27.3	25.3	21.8	25.3	29.5
2	pH	6.0-8.5	7.8	7.6	8.5	8.4	7.3	8.05	7.5	7.5	7.16	7.4	7.1	7.1
3	TSS	100.0 mg/l	26.4	36	29.4	68	74	53	26	4	40	56	12	29
4	Chemical Oxygen Demand (COD)	250.0 mg/l	61.6	20.8	36.8	48	16.8	60.8	65.6	46.4	11.2	32	51.2	58.4
5	Biochemical Oxygen Demand (BOD) at 27°C	30.0 mg/l	3.4	3.4	3.4	3.9	3.4	4.1	4.2	4.2	6.1	5.2	4.8	5.5
6	Oil & Grease	10.0 mg/l	0.02	0.02	0.25	0.31	0.27	0.33	0.34	0.34	0.10	0.14	0.16	0.18

HOD(EHS)

ANNEXURE-IV

Health Check-up Record

Employee Code	Employee Name	Age	Gender	Department	Date of Medical Check-up Ma.r2023	PME Sr. No.
1021966	Mrinal Saha	41	Male	Assistant Engineer	01.03.2023	PME0130/23
1021943	Sanjay Thakur	43	Male	Senior Technician	01.03.2023	PME0131/23
1022499	Dinesh Kumar Rathore	48	Male	Senior Technician	01.03.2023	PME0132/23
1022255	Durga Prasad Pattnaik	39	Male	Senior Technician	01.03.2023	PME0133/23
1021998	Roop Lal Patel	36	Male	Technician	01.03.2023	PME0134/23
1021806	Shyam Kumar Sahu	52	Male	Senior Technician	01.03.2023	PME0135/23
1022247	Ram Nayan Singh	39	Male	Senior Technician	01.03.2023	PME0136/23
1020530	Sujay Dey	32	Male	Engineer	01.03.2023	PME0137/23
1022633	Mohit Ram Patel	49	Male	Senior Technician	01.03.2023	PME0138/23
1022364	Kishan Gopal Meena	52	Male	Junior Engineer	01.03.2023	PME0139/23
1020040	Mayank Gupta	33	Male	Assistant Engineer	01.03.2023	PME0140/23
1022319	Kiran Kumar Sahu	41	Male	Senior Technician	01.03.2023	PME0141/23
1022041	Dharam Lal Baghel	51	Male	Staff	01.03.2023	PME0142/23
1022316	Vinod Singh Thakur	34	Male	Assistant Manager	01.03.2023	PME0143/23
1020102	Jagannath Prasad Yadav	28	Male	Junior Engineer	01.03.2023	PME0144/23
1022298	Gopiram Ogreji	45	Male	Senior Technician	01.03.2023	PME0145/23
1021993	Laxmi Prasad Sahu	45	Male	Technician	02.03.2023	PME0146/23
1022043	Labho Ram	51	Male	Staff	02.03.2023	PME0147/23

1022268	Prem Lal Kanwar	35	Male	Staff	02.03.2023	PME0148/23
1021859	Josh Bahadur Singh	49	Male	Assistant Engineer	02.03.2023	PME0149/23
1022179	Mohan Lal Tejwani	50	Male	Deputy Manager	02.03.2023	PME0150/23
1021724	Manmath Nath Pradhan	41	Male	Deputy Manager	02.03.2023	PME0151/23
1020067	Vivek Kumar Sinha	29	Male	Senior Engineer	02.03.2023	PME0152/23
1021972	Nagesh Rao	53	Male	Deputy Manager	02.03.2023	PME0153/23
1022575	Santosh Kumar Sahu	31	Male	Assistant Engineer	02.03.2023	PME0154/23
1021982	Siraj Ansari	49	Male	Senior Technician	02.03.2023	PME0155/23
1021711	Suresh Kumar Rathore	51	Male	Assistant Engineer	03.03.2023	PME0156/23
1021794	Arun Kumar Singh	41	Male	Manager	03.03.2023	PME0157/23
1022022	Panch Ram Rathiya	48	Male	Staff	03.03.2023	PME0158/23
1021870	Kanhaiya Lal Naik	42	Male	Assistant Manager	03.03.2023	PME0159/23
1021826	Bharat Patel	37	Male	Senior Technician	03.03.2023	PME0160/23
1022101	Manmath Narayan Mallik	44	Male	Assistant Manager	03.03.2023	PME0161/23
1021959	Sankadi Patel	50	Male	Assistant Engineer	03.03.2023	PME0162/23
1022342	Munna Kumar Soni	42	Male	Senior Technician	03.03.2023	PME0163/23
1021716	Jagatnaryan Singh Baghel	51	Male	Manager	03.03.2023	PME0164/23

1021948	Khagapati Malakar	41	Male	Engineer	03.03.2023	PME0165/23
1022153	Shyam Narayan Giri	54	Male	Assistant Engineer	06.03.2023	PME0166/23
1021931	Gopal Kumar Singh	40	Male	Senior Technician	06.03.2023	PME0167/23
1021854	Jaiprakash Kushwaha	52	Male	Senior Technician	06.03.2023	PME0168/23
1022327	Ramesh Kumar Sahu	50	Male	Senior Technician	06.03.2023	PME0169/23
1021830	Vishwanath Prasad	51	Male	Senior Technician	06.03.2023	PME0170/23
1022371	Lomas Yadav	37	Male	Senior Technician	06.03.2023	PME0171/23
1022235	Data Ram Rathore	57	Male	Senior Technician	07.03.2023	PME0172/23
1022058	Bhuvan Lal Patel	41	Male	Staff	07.03.2023	PME0173/23
1021863	Ashok Kumar Mall	44	Male	Senior Technician	07.03.2023	PME0174/23
1022394	Sanjay Singh	44	Male	Technician	07.03.2023	PME0175/23
1021742	Tek Ram Yadav	41	Male	Senior Technician	07.03.2023	PME0176/23
1022063	Gangadhar Rathiya	33	Male	Technician	07.03.2023	PME0177/23
1011808	Umesh V Chauhan	53	Male	Associate Vice President	09.03.2023	PME0178/23
1021825	Bhim Dev Rathore	49	Male	Senior Technician	10.03.2023	PME0179/23
1022392	Ravindra Prasad Soni	44	Male	Senior Technician	10.03.2023	PME0180/23
1021789	Kishore Kumar Sahoo	42	Male	Deputy Manager	10.03.2023	PME0181/23
1022213	Dilip Kumar Dinkar	41	Male	Junior Engineer	10.03.2023	PME0182/23
1088454	S. Prasad	41	Male	Assistant General Manager	11.03.2023	PME0183/23
1021727	Jagdish Prasad Patel	46	Male	Junior Engineer	13.03.2023	PME0184/23

1022376	Narayan Singh Tuti	49	Male	Senior Technician	13.03.2023	PME0185/23
1021760	Lokeshwar Prasad Bhardwaj	50	Male	Engineer	13.03.2023	PME0186/23
1022019	Neel Kanth Patel	42	Male	Technician	13.03.2023	PME0187/23
1087379	Manish Kumar Srivastava	38	Male	Manager	14.03.2023	PME0188/23
1021888	Chote Lal Rathiya	48	Male	Technician	14.03.2023	PME0189/23
1022050	Chakradhar Kanwar	39	Male	Staff	14.03.2023	PME0190/23
1022092	Santosh Yadav	46	Male	Technician	14.03.2023	PME0191/23
1022571	Janardan Samal	49	Male	Senior Technician	14.03.2023	PME0192/23
1021838	Lal Muni Paswan	50	Male	Senior Technician	14.03.2023	PME0193/23
1022428	Shiv Ram	45	Male	Senior Technician	14.03.2023	PME0194/23
1022424	Mukesh Kumar Patel	43	Male	Senior Technician	15.03.2023	PME0195/23
1021871	Anil Kumar Jaiswal	43	Male	Engineer	15.03.2023	PME0196/23
1021819	Uddhau Prasad Chandra	47	Male	Senior Technician	15.03.2023	PME0197/23
1022149	Md. Siraj	48	Male	Senior Technician	15.03.2023	PME0198/23
1022354	Hem Lal Sahu	46	Male	Senior Technician	15.03.2023	PME0199/23
1022197	Pramod Kumar Chandra	40	Male	Junior Engineer	15.03.2023	PME0200/23
1022350	Binod Bhoi	38	Male	Junior Engineer	15.03.2023	PME0201/23

1022158	Anurag Yadav	37	Male	Technician	15.03.2023	PME0202/23
1021939	Somesh Pardhi	47	Male	Deputy Manager	15.03.2023	PME0203/23
1022645	Dinesh Patanwar	45	Male	Deputy Manager	15.03.2023	PME0204/23
1021776	Virendra Kumar Sagar	41	Male	Deputy Manager	15.03.2023	PME0205/23
1022009	Jivan Lal Chouhan	55	Male	Staff	15.03.2023	PME0206/23
1021949	Shrikant Ware	42	Male	Assistant Engineer	15.03.2023	PME0207/23
1021707	Daya Ram Khare	44	Male	Junior Engineer	15.03.2023	PME0208/23
1020101	Rakesh Kumar Bhagat	36	Male	Deputy Manager	15.03.2023	PME0209/23
1022368	Kamal Mahato	42	Male	Junior Engineer	15.03.2023	PME0210/23
1021997	Ghadi Lal Nayak	33	Male	Technician	16.03.2023	PME0211/23
1021790	Himmat Paswan	42	Male	Senior Technician	16.03.2023	PME0212/23
1021890	Karmu Ram Sahu	42	Male	Staff	16.03.2023	PME0213/23
1022648	Rakesh Singh Kshatriya	33	Male	Deputy Manager	16.03.2023	PME0214/23
1021989	Rambhawan Garg	44	Male	Deputy Manager	16.03.2023	PME0215/23
1022357	Bodhram Mehar	54	Male	Senior Technician	16.03.2023	PME0216/23
1021696	Tarachand Patel	53	Male	Assistant Engineer	16.03.2023	PME0217/23

1022413	Kaushal Prasad Bareth	35	Male	Senior Technician	16.03.2023	PME0218/23
1022378	Rajeshwar Singh	53	Male	Senior Technician	16.03.2023	PME0219/23
1022059	Lakeshwar Sahu	42	Male	Senior Technician	16.03.2023	PME0220/23
1021915	Ramchandra Vishwakarma	39	Male	Senior Technician	16.03.2023	PME0221/23
1022332	Kamal Bhan Singh	48	Male	Senior Engineer	16.03.2023	PME0222/23
1022292	Dilchand Bareth	46	Male	Senior Technician	16.03.2023	PME0223/23
1022551	Jitendra Nath Sharma	52	Male	Technician	17.03.2023	PME0224/23
1022069	Ramesh Kr. Singh	39	Male	Senior Technician	17.03.2023	PME0225/23
1021851	Dhaneshwar Pd. Kashyap	36	Male	Senior Technician	17.03.2023	PME0226/23
1021809	Ram Charan Chandra	L03	Male	Senior Technician	17.03.2023	PME0227/23
1022377	Bhanja Kishor Mahapatra	41	Male	Junior Engineer	17.03.2023	PME0228/23
1021753	Santosh Kumar Shukla	53	Male	Senior Technician	17.03.2023	PME0229/23
1021783	Hari Singh Yadav	48	Male	Senior Technician	17.03.2023	PME0230/23
1021878	Manharan Bharadwaj	40	Male	Deputy Manager	17.03.2023	PME0231/23
1021722	Dharam Singh Patel	55	Male	Senior Technician	17.03.2023	PME0232/23
1021820	Anuj Kumar Shriwas	44	Male	Senior Technician	17.03.2023	PME0233/23

1021858	Krishna Das Mahant	52	Male	Engineer	17.03.2023	PME0235/23
1022129	Sandeep Singh	44	Male	Engineer	17.03.2023	PME0236/23
1021805	Radha Mohan Pandey	55	Male	Assistant Engineer	17.03.2023	PME0237/23
1022481	Dhirendra Singh	44	Male	Junior Engineer	17.03.2023	PME0238/23
1021953	Pushpendra Singh Chandra	46	Male	Deputy Manager	18.03.2023	PME0239/23
1021712	Pravin Bagade	38	Male	Junior Engineer	18.03.2023	PME0240/23
1021958	Raju Singh	33	Male	Junior Engineer	18.03.2023	PME0241/23
1021889	Badrika Pd. Chauhan	52	Male	Technician	18.03.2023	PME0242/23
1021720	Manoj Sahu	41	Male	Deputy Manager	18.03.2023	PME0243/23
1022312	Bachche Lal	40	Male	Engineer	18.03.2023	PME0244/23
1020079	Ramakanta Senapati	41	Male	Engineer	18.03.2023	PME0245/23
1020848	Manoj Kumar Tyagi	53	Male	General Manager	18.03.2023	PME0246/23
1022517	Sarfaraj Shaik	34	Male	Senior Technician	20.03.2023	PME0247/23
1022276	Shashikant Prasad Sah	40	Male	Senior Technician	20.03.2023	PME0248/23
1022238	Ashwini Kumar Jha	34	Male	Assistant Manager	20.03.2023	PME0249/23
1021858	Krishna Das Mahant	52	Male	Engineer	17.03.2023	PME0235/23

1022545	Md.Manjul Hassan	39	Male	Senior Technician	20.03.2023	PME050/23
1022345	Sanjiv Kumar Ratre	34	Male	Technician	20.03.2023	PME0251/23
1021822	Nand Kumar Patel	56	Male	Assistant Engineer	20.03.2023	PME0252/23
1022236	Munna Kumar Singh	43	Male	Senior Technician	20.03.2023	PME0253/23
1021990	Ashwani Kumar Sahu	47	Male	Senior Technician	20.03.2023	PME0254/23
1022192	Yashpal Choudhery	37	Male	Engineer	20.03.2023	PME0255/23
1022379	Suresh Prasad Pandey	44	Male	Junior Engineer	20.03.2023	PME0256/23
1022303	Sanjay Kumar Singh	42	Male	Senior Technician	20.03.2023	PME0257/23
1022018	Raj Kr. Sahu	37	Male	Staff	20.03.2023	PME0258/23
1021706	Naresh Kumar Ratnakar	45	Male	Senior Technician	20.03.2023	PME0259/23
1021897	Men Singh Rathiya	52	Male	Technician	20.03.2023	PME0260/23
1021879	Dinesh Kr. Jamnare	46	Male	Engineer	20.03.2023	PME0261/23
1022225	Bhuwan Lal Patel	38	Male	Senior Technician	20.03.2023	PME0262/23
1022523	Ajit Kumar Jena	41	Male	Junior Engineer	20.03.2023	PME0263/23
1022382	Nagendra Mishra	29	Male	Technician	21.03.2023	PME0264/23
1022097	Shreekant Sharma	57	Male	Manager	21.03.2023	PME0265/23

1021869	Shiv Kumar Sahu	37	Male	Assistant Manager	21.03.2023	PME0266/23
1021704	Ashish Shukla	46	Male	Engineer	21.03.2023	PME0267/23
1021738	Santosh Kumar Sharma	40	Male	Senior Technician	21.03.2023	PME0268/23
1021784	Kartik Ram	50	Male	Senior Technician	21.03.2023	PME0269/23
1022174	Surendra Yadav	42	Male	Senior Technician	21.03.2023	PME0270/23
1021944	Krishna Chaudhary	54	Male	Senior Technician	21.03.2023	PME0271/23
1021875	Ashok Kumar	49	Male	Assistant Engineer	21.03.2023	PME0272/23
1022218	Laxmi Narayann Yadav	47	Male	Senior Technician	21.03.2023	PME0273/23
1021739	Rajesh Tiwari	49	Male	Senior Technician	21.03.2023	PME0274/23
1022219	Makardhawaj Patel	47	Male	Senior Technician	21.03.2023	PME0275/23
1020054	Deepak Kumar Kujur	42	Male	Deputy Manager	21.03.2023	PME0276/23
1022302	Ballabh Sharaf	45	Male	Junior Engineer	21.03.2023	PME0277/23
1021872	Harit Lal Sahu	53	Male	Senior Technician	21.03.2023	PME0278/23
1022237	Bhuwaneshawar Pd. Patel	35	Male	Assistant Manager	21.03.2023	PME0279/23
1021884	Ram Kr. Patel	47	Male	Senior Technician	21.03.2023	PME0280/23
1022370	Mahabir Paswan	47	Male	Senior Technician	21.03.2023	PME0281/23

1022393	Santosh Kumar Kashyap	47	Male	Senior Technician	21.03.2023	PME0282/23
3000553	Jinendra Behra	39	Male	Manager	21.03.2023	PME0283/23
1022088	Suresh Kumar Chandra	52	Male	Junior Engineer	21.03.2023	PME0284/23
1021920	Amiit Chourey	42	Male	Deputy Manager	21.03.2023	PME0285/23
1022288	Parmeshwar Prasad Shukla	37	Male	Assistant Manager	21.03.2023	PME0286/23
1022220	Tek Ram Patel	39	Male	Technician	21.03.2023	PME0287/23
1021968	Rashmi Ranjan Jena	45	Male	Senior Technician	21.03.2023	PME0288/23
1021775	Durgesh Kumar Verma	34	Male	Senior Technician	21.03.2023	PME0289/23
1022460	Deptiranjan Mohapatra	33	Male	Deputy Manager	22.03.2023	PME0290/23
1022015	Kanhaiya Lal Sahu	47	Male	Technician	22.03.2023	PME0291/23
1022021	Prahlad Chauhan	45	Male	Staff	22.03.2023	PME0292/23
1021703	Vistu Mallick	46	Male	Senior Technician	22.03.2023	PME0293/23
1022003	Manoj Kumar Gabel	42	Male	Technician	22.03.2023	PME0294/23
1022206	Moolchand Patel	38	Male	Technician	22.03.2023	PME0295/23
1022135	Surendra Kumar Patel	43	Male	Technician	22.03.2023	PME0296/23
1021785	Ajay Choudhary	45	Male	Senior Technician	22.03.2023	PME0297/23

1021848	Md. Samshul Hoda	47	Male	Engineer	22.03.2023	PME0298/23
1021836	Mahesh M. Kurve	44	Male	Senior Technician	22.03.2023	PME0299/23
1021735	Banwali Lal Nirnejak	49	Male	Senior Technician	22.03.2023	PME0300/23
1021768	Munna Kumar Parbat	45	Male	Junior Engineer	22.03.2023	PME0301/23
1022138	Mrs. Madhu Singh	42	Female	Junior Officer	22.03.2023	PME0302/23
1022155	Umesh Kumar Naik	39	Male	Senior Technician	22.03.2023	PME0303/23
1022222	Himanchal Prasad Patel	45	Male	Senior Technician	22.03.2023	PME0304/23
1021759	Dhananjay Singh Gavel	49	Male	Assistant Engineer	22.03.2023	PME0305/23
3001518	Rana Biswas	36	Male	Engineer	22.03.2023	PME0306/23
1022150	Sandeep Singh	36	Male	Senior Technician	22.03.2023	PME0307/23
1022349	Ramchandra Sahu	46	Male	Senior Technician	22.03.2023	PME0308/23
1021766	Anil Kumar	49	Male	Deputy Manager	22.03.2023	PME0309/23
1022459	Alok Ranjan Nayak	38	Male	Assistant Manager	23.03.2023	PME0310/23
1021765	Sarvsukh Singh	53	Male	Senior Technician	23.03.2023	PME0311/23
1022372	Ravish Kumar Singh	31	Male	Senior Technician	23.03.2023	PME0312/23
1022458	Lakhan Lal Jatwar	45	Male	Senior Technician	23.03.2023	PME0313/23

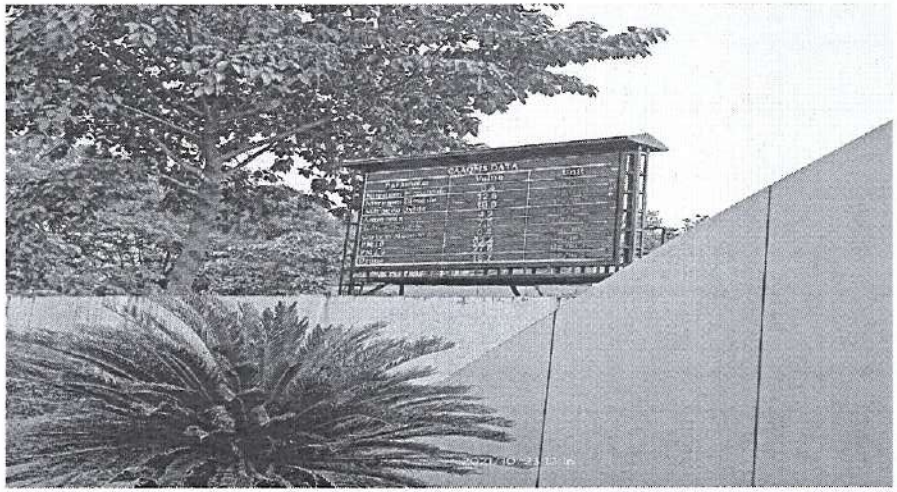
1021736	Bachan Lal	38	Male	Senior Technician	23.03.2023	PME0314/23
1021856	Rajdeep Kumar Mandal	44	Male	Senior Technician	23.03.2023	PME0315/23
1022646	N. R. Saikiran	47	Male	Senior Manager	23.03.2023	PME0316/23
3002056	Saurav Kesharwani	31	Male	Assistant Manager	23.03.2023	PME0317/23
1021865	Satya Prakash Tiwari	45	Male	Assistant Engineer	23.03.2023	PME0318/23
1021860	Bhupendra Chouhan	42	Male	Technician	23.03.2023	PME0319/23
1021813	Prashant Tiwari	49	Male	Senior Technician	23.03.2023	PME0320/23
1021911	Laxman Pd. Banjare	50	Male	Assistant Engineer	23.03.2023	PME0321/23
1022217	Net Ram Patel	46	Male	Technician	23.03.2023	PME0322/23
1093008	Ravi Kumar Singhai	31	Male	Senior Engineer	23.03.2023	PME0323/23
1022429	Raj Kumar Yadav	49	Male	Senior Technician	23.03.2023	PME0324/23
1021901	Narsingh Pd. Patel	52	Male	Technician	23.03.2023	PME0325/23
1022221	Radhe Lal Sidar	45	Male	Senior Technician	23.03.2023	PME0326/23
1020059	Sameer Chaturvedi	36	Male	Engineer	23.03.2023	PME0327/23
1022016	Ram Narayan Behra	50	Male	Senior Technician	24.03.2023	PME0328/23
1021971	Ramesh Mandal	49	Male	Junior Engineer	24.03.2023	PME0329/23

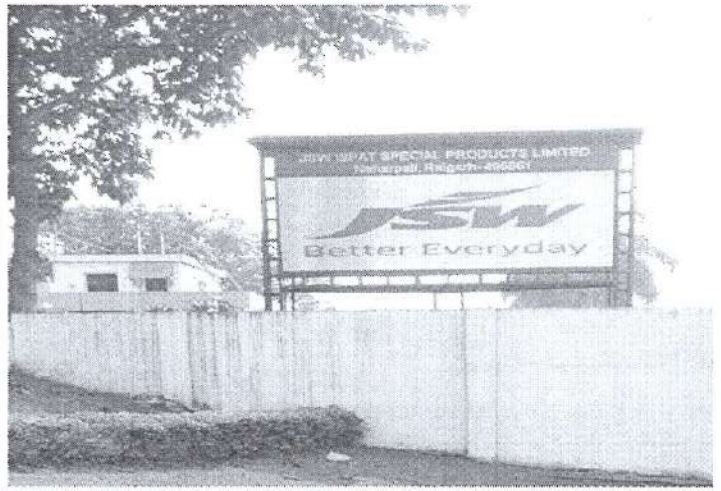
1022286	Ramesh Kumar Rathore	45	Male	Senior Technician	24.03.2023	PME0330/23
1022556	Hargovind Singh	44	Male	Junior Engineer	24.03.2023	PME0331/23
1022317	Mahendra Prasad Singh	47	Male	Engineer	24.03.2023	PME0332/23
1021827	Murali Paswan	46	Male	Senior Technician	24.03.2023	PME0333/23
1022283	Sushil Kumar Sahu	40	Male	Senior Technician	24.03.2023	PME0334/23
1021942	Dasaram J. Dhamade	49	Male	Senior Engineer	24.03.2023	PME0335/23
1020093	Deepak Kumar Langewar	38	Male	Deputy Manager	24.03.2023	PME0336/23
1022161	Devendra M. Kisaan	51	Male	Senior Manager	24.03.2023	PME0337/23
1093749	Shivendra Dwivedi	43	Male	Engineer	24.03.2023	PME0338/23
1022563	Dipu Kumar Singh	35	Male	Senior Technician	24.03.2023	PME0339/23
1093769	Deepak Dewangan	41	Male	Senior Engineer	24.03.2023	PME0340/23
1022299	Raj Mangal Yadav	46	Male	Junior Engineer	27.03.2023	PME0341/23
1022032	Shoki Lal Chauhan	57	Male	Staff	27.03.2023	PME0342/23
1021823	Puni Ram Kumhar	55	Male	Junior Engineer	27.03.2023	PME0343/23
1021798	Banij Ram Sahu	45	Male	Engineer	27.03.2023	PME0344/23
1021956	Manoj Yadav	46	Male	Senior Technician	27.03.2023	PME0345/23

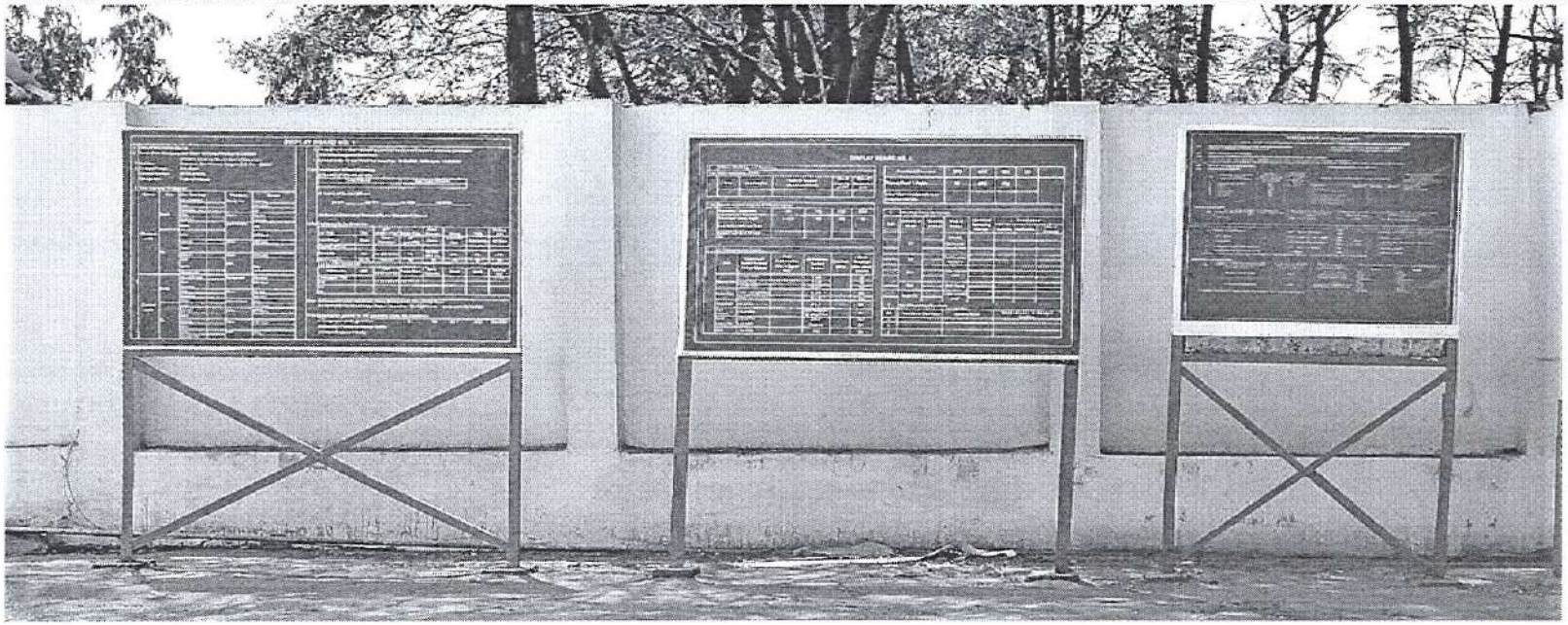
1091353	Samarth Shukla	23	Male	Graduate Engineer Trainee	27.03.2023	PME0346/23
1022071	Rajesh Kr. Sharma	50	Male	Junior Engineer	28.03.2023	PME0347/23
1022365	Abhishek Singh	36	Male	Assistant Manager	28.03.2023	PME0348/23
1022457	Ramesh Padhan	39	Male	Junior Engineer	28.03.2023	PME0349/23
1022151	Suresh Kumar Naik	46	Male	Junior Engineer	28.03.2023	PME0350/23
1089437	Neel Ratan Manhare	33	Male	Assistant Engineer	28.03.2023	PME0351/23
1021957	Neelambar Pd. Sahu	43	Male	Assistant Engineer	28.03.2023	PME0352/23
1022309	Arvind Singh	42	Male	Assistant Engineer	28.03.2023	PME0352/23
1093721	Akshay Bhimrav Patil	25	Male	Engineer	28.03.2023	PME0354/23
1022615	Prabir Kumar Mallick	31	Male	Technician	29.03.2023	PME0355/23
1021814	Bhola Pal	40	Male	Junior Engineer	29.03.2023	PME0356/23
1088484	Soubhagya Jata	37	Male	Junior Engineer	30.03.2023	PME0357/23
1021992	Narendra Kr. Patel	43	Male	Staff	30.03.2023	PME0358/23
1021734	Dolnaryan Dansena	39	Male	Junior Engineer	31.03.2023	PME0359/23
1022455	Pardeshi Dewangan	38	Male	Junior Engineer	31.03.2023	PME0360/23
1021778	Arvind Kumar Sahu	46	Male	Senior Technician	31.03.2023	PME0361/23

ANNEXURE-V

DATA DISPLAYED AT MAIN GATE







ANNEXURE-VI

DATA PUBLISHED IN WEBSITE

JSW Ispat Special Products Limited
(formerly known as Monnet Ispat & Energy Limited)

PROMOTERS PRODUCTS INVESTORS CAREERS

Clearances

HW-Return - Raigarh
2021 to 2022
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EC Compliance Report

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