Monnet Ispat & Energy Limited

Village & P.O.: Naharpali, Tehsil.: Kharsia, Raigarh – 496 661 (Chhattisgarh)
CIN : L02710CT1990PLC009826, **GST** : 22AAACM0501D1ZK
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E-mail : raigarh@aionjsw.in, **Website** : www.aionjsw.in

MIEL/EMD/NP/ 316/2020 Date: 21.04.2020

To,

Addl. Principal Chief Conservator of Forests (C)
Ministry of Env., Forest and Climate Change
Regional Office(WCZ),Ground Floor
East Wing, New Secretariat Building,
Civil Lines,Nagpur-440001

Subject: Six Monthly Environment Compliance and Monitoring Report for the period of October, 2019 to March-2020 of 1.75 MTPA Integrated Steel Plant, located at Village & Post Naharpali, Tehsil-Kharsia, Dist. 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, 2019 to March, 2020 against 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.

This is for your kind perusal and necessary records.

Thanking you.

Yours faithfully,

For **Monnet Ispat & Energy Limited,**

Authorized Signatory

Encl: 1. **Appendix-A**: Data Sheet, PART-I
2. **Appendix-B**: Compliance Status report along with monitoring Report

CC:

1. **Zonal Officer,** Central Pollution Control Board, 3rd Floor, Sarkar Bhawan, North TT Nagar, Bhopal (M.P.) – 462003.
2. **Member Secretary,** Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block Sector -19, Atal Nagar Raipur (C.G.)

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	:	Monnet Ispat & Energy Ltd
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°58'27'' & 21°59'30''
	Longitude	:	83°13'31'' & 83°14'55''
5	Address for correspondence		
	a) Address of concerned Project Chief Engineer (with pincode & telephone / telex/ fax numbers)	:	R.K. Patel Factory Manager Monnet Ispat & Energy Ltd Village & Post-Naharpali, Tehsil-Kharsia Dist. Raigarh-496661; Ph. 07762-251208
	b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	:	Sanjay Shrivastava Head-Environment Monnet Ispat & Energy Ltd Village & Post-Naharpali, Tehsil-Kharsia Dist. Raigarh-496661; Ph. 07762-251105
6	Salient features		
	a) Of the project	:	Please refer Annexure-1
	b) of the environmental management plans	:	Please refer Annexure-2
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 (as on 30.09.2019)
	Actual expenditure incurred on the environmental management plans so far.	:	98 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-1

SALIENT FEATURES THE PROJECT

Monnet Ispat & Energy Limited is located at village-Naharpali, 25 Km away from district headquarter Raigarh (Chhattisgarh). Now, it is known as Joint Venture Company by AION & JSW after taken over by AION Capital and JSW Steel ltd. from September, 2018.

Salient features;

- ISO 9001:2015 14001:2015 & 45001:2018 Certified Company
- MIEL established in year 2008, nearest Railway Station is Raigarh and Airport is Raipur (Chhattisgarh).
- Latitudes 21º58'27" & 21º59'30" & Longitudes 83º13'31" & 83º14'55" and height from mean Sea level is 219 m.
- Max. Temp.: 47 °C and Avg. Rainfall is 1590 mm.
- Mahanadi River is the main source of water.

About the JSW Group

The JSW Group is known across the country as "Strategic first mover''. It is a $ 14 billion leading conglomerate, with a presence across all the vital sectors of the Indian economy. 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.

JSW Group Strength

- JSW Steel (Manufacturing Capacity) : 18 MTPA
- JSW Energy (Power Generation) : 4543 MW
- JSW Infrastructure (Operating Capacity) : 68 MTPA
- JSW Cement (Production Capacity) : 10.3 MTPA

About MIEL

MIEL, 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. Monnet Ispat & Energy Ltd 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.

Monnet Ispat & Energy Limited (MIEL) have following production configuration:

SN.	Units	Capacity
1	Pellet Plant	2.20
2	Sponge Iron Unit (DRI)	0.70
3	Blast Furnace	1.00
4	Sinter Plant	1.50
5	Steel Melting Shop	1.74
6	Rolling Mill & Plate	1.20
8	Coal Beneficiation Plant	1.00
9	Oxygen Plant	0.13
10	Power Plant	240 MW
11	DG Set	1x3.8 MVA & 3 x1500 KVA

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

Board of Directors

The Board of Monnet Ispat and Energy Limited (MIEL) comprises following Directors:

1. Mr. Ravichandar Moorthy Dhakshana
2. Mr. Sheshgiri Rao
3. Mr. Jyotin Kantilal Mehta
4. Ms. Anuradha Ambar Bajpai
5. Mr. Kalpesh Pankaj Kilkani
6. Mr. Sanjay Kumar
7. Mr. Nikhil Omprakash Gehrotra

ANNEXURE-2

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 EMP 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:

- Conducting annual environmental audit and submit audit report to State pollution Control Board (SPCB);
- 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 MIEL 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. • 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) 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 100 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 material 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. ▪ 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 below 20 gm/Nm3. ▪ This gas is further cleaned in bag filter system; where the dust is fully recovered and the pure gas after cleaning contains below 15 mg/Nm3.
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. ▪ It has Centralized de-dusting system containing Electrostatic precipitators. ▪ Electrostatic Precipitators are installed to control the point source emission from process area as well as material transfer points.
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. • SPM bearing gases generated from electric arc furnace are • Collected using fume extraction system (FES) and taken to after combustion chamber for converting CO to CO_2. • 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 fume extraction system and taken to after combustion chamber. • 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 less than 50mg/Nm3 by using ESPs of adequate 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	▪ 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
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	STP
Raw water treatment	Suspended Solids	Clarifier, thickner sludge
Blast furnace gas cleaning plant	Suspended Solids	Clarifier, recirculation of under flow
Wire rod cum rebar mill	Suspended Solids	Settling tanks
Iron ore Palletisation beneficiation	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 taken to settling tank through drain system. Water is being recycled back through water reservoir for cooling of Sponge iron in coolers.
Power Plant	▪ DM plant wastewater is being neutralized in neutralizing pit and reused for ash handling. ▪ The decanted water from settling tank is being recycled back for reuse in ash handling. ▪ The cooling tower blow-down also is being reused for ash handling. ▪ As the boiler is AFBC/CFBC type where oil is required only at the time of starting the boiler, hence, no pollution is anticipated due to oil. From other units such as workshops, the oil water mixture will be quite low and shall be led to oil traps before its disposal. ▪ Ash handling in AFBC/CFBC power plant and slurry handling in the coal beneficiation plant have high potential for wastewater generation. ▪ The two systems will be closed circuit and extreme care shall be taken to maintain zero discharge from these systems.
Rolling mill / Bar mill	Wastewater is skimmed for oil & scale and then recycled back to the plant through filter and cooling system. No wastewater is discharged.
Blast Furnace	It is a dry gas cleaning process there will be no effluent generation. Cooling tower blow-down & softener spent re-generated waste water will be reused for slag cooling and dust suppression.
Sinter Plant	Make-up water is added to substitute evaporation loss. Blow-down will be used in sinter nodulizing.
Steel Melting Shop EAF & Ladle furnace	▪ The wastewater is taken to settling tank and outlet water of tank is being reused. ▪ Make-up water added to substitute evaporation & drift loss. The blow-down is used for coke quenching and slag granulation.
Pellet Plant	▪ The water requirement for the proposed pellet plant will be mostly for cooling of plant & equipment and for process needs with a small part for drinking and other units.

	▪ Water used in the process is passed through thickeners where the water is separated from the iron ore fines and the clear water is recycled back into the process for utilization. ▪ Other miscellaneous effluent generated from pellet plant to be recycled into plant through settling pit/collection pit.
Coal Washery	▪ 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 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. ▪ In control of waste water generated from equipment cooling, blow down of soft water system, water seal, ground flushing, domestic sewage and chemical examination etc, contaminant clearing and stream splitting shall be done strictly.

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 fugitive dust emissions and noise level are as follows.

- Dust extraction systems, with bag filters have been provisioned 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/Nm3. 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

Monnet Ispat & Energy Limited 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	Low-lying areas
	Kiln Accretion	Road making.

POWER PLANT	Fly ash	Brick/cement manufacturing
	Bottom Ash	Filling of low laying area
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 LF 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

COMPLIANCE STATUS REPORT

of the condition stipulated in Environmental Clearance for expansion of 1.75 MTPA Integrated Steel Plant
Vide letter no. F. No. J11011/196/2007- IA II (I) dated 26th Dec, 2007

(Period: October, 2019 to March-2020)

SN	Condition	Status as on 31.03.2020
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. ▪ Ventury 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 03.03.2020. (**Annexure-I**) and also permission granted from Water Resource Department (C.G.) for surface water drawl. Copy of the same is attached hereby. **Annexure-II**
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 off in environment friendly manner. ESP fly ash and bag filter	▪ During the compliance period Captive power unites are partially running, thus char generated from DRI are being scientifically collected and stored in an identified area. All char/Dolochar will be utilized in AFBC/CFBC Boilers.

	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 as well as self-consumed for brick/block manufacturing, excess sent to land fill area. ▪ Mill scale is being reuse in the SMS. ▪ Granulated slag generated from cast house granulation unit supplied to cement manufacturing unit. ▪ Non granulated slag generated from SMS is being fully consumed for low laying area filling and road embankment. ▪ 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.
vi	All the fly ash shall be utilized as per fly Ash Notification. 1999 and subsequently amendment in 2003.	Agreed and Complied. Fly ash generated from power generation units is being utilized in brick manufacturing and landfilling units as per the notification. Bottom ash is being utilized for Filling of low laying areas.
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 175000 plants in and around our premises. During next compliance period we are planning to plant about 10000 Nos. of sapling.
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. DRI ESP's are interlocked process.

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. Water sprinkling systems have been installed at conveyors, storage yards and raw material handling areas. In addition to the above water sprinklers are provided on haul areas including material storage yards. Centralized de-dusting system has been installed at stock house and raw material handling 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, 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.	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 emission is being monitored manually and 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-III (a) & III (b)**
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.	Agreed and complied. 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-III (C)**
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 water supply and 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.
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 MoEF and State Boards. Rs. 528 Lakh have been incurred during the compliance period and another Rs. 380 lakh is proposed to be incurred during the FY:2020-2021.
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. MIEL/NP/EMD/287/2019; Date: 25.11.2019; email dated; 25.11.2019**
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

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

(Period: October- 19 to March-2020)

No	Condition	Status as on 31.03.2020
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, SO2, 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. Also data is being displayed at outside of the company's main gate for public domain. **Annexure-V(a)**
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-III (a)**
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 both soft & hard copies regularly. Last compliance report submitted vide **letter no. MIEL/NP/EMD/287/2019; Date: 25.11.2019; email dated; 25.11.2019**
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. MIEL/NP/EMD/262/2019;** dated: **06.08.2019.** Status of compliance of environmental conditions along with monitoring report have also been published in company's website at *www.aionjsw.in*. **Annexure-V (b)**
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.	Not Applicable

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 MIEL, Naharpali vide letter no. F. No. J-11011/196/2007 – IA II (I) dated 13th April, 2017

(Period: October- 19 to March-2020)

SN	Specific Condition	Status as on 31.03.2020
1.	The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.	Installed and connected with CPCB, CECB website with real time data.
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. Appropriate and adequate APCD has installed to keep emission level within norms even after increase in pellet plant capacity.
General Condition		
1	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Pollution Control Board and the State Government.	Agreed
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 regularly to CECB, Regional office at Raigrah and CECB, head office, Raipur. Apart from the above, ambient air quality and stack emission is being monitored manually and report is being submitted to the board on monthly basis. Copy of the same is enclosed herewith as **annexure-III (a) & III (b) .**
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 and complied. Acidic and alkaline wastewater from demineralization is being neutralized in neutralization pit and reused in dust suppression 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'.
5	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 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. Regular monitoring of noise level is also in practice and report is being submitted to the board on monthly basis. Copy of the same is enclosed herewith as **annexure-III (c)**

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. **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 El/VEMP 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.(Please refer **Annexure-VI**)
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 MoEF and State Boards. Rs. 528 Lakh have been incurred during the compliance period and Rs. 380 lakh is proposed to be incurred during the FY:2020-2021.
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 (a)** The data along with compliance report have also been published in company's website at *www.aionjsw.in* **Annexure-V (b)**
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. MIEL/NP/EMD/287/2019; & email dated; 25.11.2019**

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.	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. MIEL/NP/EMD/262/2019;** dated: **06.08.2019;** Status of compliance of environmental conditions also sent to the respective Regional Office of the MOEFCC at Nagpur by **letter no. MIEL/NP/EMD/287/2019 and** e-mail dated:25.11.2019
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:	M/s Monnet Ispat And Energy Limited		
Project Address:	Village and Post - Naharpali, Tehsil - Kharsia, Raigarh, Chhattisgarh		
Town:	Naharpali	Block:	Kharsia
District:	Raigarh	State:	Chhattisgarh
Pin Code:	496661		
Communication Address:	M/s Monnet Ispat And Energy Limited, Village and Post - Naharpali, Tehsil - Kharsia, Raigarh, Chhattisgarh - 496661		
Address of CGWB Regional Office :	Central Ground Water Board, North Central Chhattisgarh Region, 2nd Floor, LK Corporate and Logistic Park, Dhamtari Road, NH-30, Dumartarai, Raipur, Chhattisgarh - 492015		

1.	**NOC No.:**	CGWA/NOC/IND/ORIG/2020/7569			
2.	Application No.:	21-4/1777/CT/IND/2018	3.	Category:	Industry
4.	Project Status:	Existing Project	5.	NOC Type:	New
6.	**Valid from:**	03/03/2020	7.	**Valid up to:**	02/03/2022

8. 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					400.00	146000.00

9. Details of ground water abstraction /Dewatering structures

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

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

10.	Quantum of ground water recharge/harvesting(m³/year):	255312.00

11.	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)

Digitally signed by
NANDAKUMARAN P
Date: 2020.03.09 17:38:36 +05'30'

सदस्य (केन्द्रीय भूमि जल प्राधिकरण)
Member (CGWA)

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

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

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

1. 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).
2. 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).
3. All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
4. In case the ground water abstraction is more than 10 m^3/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m^3/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
5. In case ground water abstraction is more than 10 m^3/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Director, CGWB.
6. Ground water augmentation/harvesting measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the Regional Director, CGWB.
7. Proof of recharge/ water harvesting (photographs of structures constructed) shall be submitted to the Regional Director, CGWB. The firm shall also undertake periodic maintenance of recharge/water harvesting structures at its own cost.
8. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
9. 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.
10. In case of industries 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.
11. 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.
12. 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.
13. Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the Regional Director, Central Ground Water Board.
14. 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.
15. 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.
16. This NOC does not absolve the proponents of their obligation/ requirement to obtain other statutory and administrative clearances from appropriate authorities.
17. 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.
18. 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.
19. Application for renewal can be submitted online from 90 days before the expiry of NOC. Application for renewal of expired NOCs shall not be entertained and subsequent ground water withdrawal, if any, shall be illegal & liable for legal action as per provisions of Environment Protection Act (EPA), 1986.
20. **In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA 1986 as and when decided by statutory authorities.**

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

ANNEXURE-II

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 पू. क्रं.–911/21/मा/प्र–2/बिलासपुर, दिनांक 08.07.2004 । (4-57)

–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 ।

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Executive Engineer
Water Resources Division
(C.G.)

(AUTHORISED SIGNATORY)

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)
प्रमुख सचिव, 27/9/04
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

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विशेष कर्तव्यस्थ अधिकारी,
जल संसाधन विभाग,
मंत्रालय, रायपुर

IBM D osd Hindi letter L-34

छत्तीसगढ़ शासन,
जल संसाधन विभाग,
मंत्रालय,
दाऊ कल्याण सिंह भवन,रायपुर.

To MD
JPL

क्रमांक...../29/31/93/म/31/औजप्र/डी–4, रायपुर दिनांक /06/2008

प्रति,

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

विषयः– मोनेट इस्पात एण्ड एनर्जी लि., मंदिर हसौद द्वारा रायगढ़ जिले में प्रस्तावित इंटीग्रेटेड स्टील एवं केप्टिव पॉवर प्लांट आदि के विस्तार हेतु महानदी से अतिरिक्त 9.96 मि.घ.मी. वार्षिक जल आबंटन की स्वीकृति।

संदर्भः– 1. शासन का पत्र क्रमांक–2312–2313/7/जसं/तशा/औजप्र/01/डी–4, रायपुर दिनांक 29.04.2008.
2. कार्यपालन अभियंता, जल संसाधन संभाग, रायगढ़ का पत्र क्र.–2323–2324 /व.ले.लि./2008 दिनांक 22.05.2008.

उपरोक्त विषयांतर्गत प्रकरण में राज्य जल संसाधन उपयोग समिति, छत्तीसगढ़ की 20वीं बैठक, दिनांक 17.04.2008 में लिये गये निर्णयानुसार एवम् संस्थान द्वारा कमिटमेंट चार्जेस रू. 2.49 लाख का भुगतान जल संसाधन विभाग को किये जाने के तारतम्य में मोनेट इस्पात एण्ड एनर्जी लि., मंदिर हसौद द्वारा जिला–रायगढ़, के नहरपाली ग्राम के पास प्रस्तावित इंटीग्रेटेड स्टील एवं केप्टिव पॉवर प्लांट आदि के विस्तार हेतु महानदी से अतिरिक्त 9.96 मिलियन घन मीटर वार्षिक जल आबंटन की स्वीकृति, महानदी में संस्थान के संपूर्ण/अनुपातिक व्यय से एनीकट के निर्माण उपरांत (आफटेक पाईन्ट–संस्थान द्वारा निर्मित, बालपुर के निकट स्थित इंटेकवेल) निम्नलिखित शर्तो के साथ प्रदान की जाती है :–

1. संस्थान, महानदी में प्रस्तावित एनीकट के सर्वेक्षण एवं तद्नुसार उसके निर्माण कार्य की संपूर्ण/अनुपातिक लागत वहन करेगा। संस्थान द्वारा एनीकट निर्माण में, वहन की गई सम्पूर्ण/अनुपातिक राशि को, शासकीय स्त्रोत से निर्धारित जल दर के अनुसार देय जल–कर की राशि में समायोजित किया जा सकेगा। सर्वेक्षण/निर्माण कार्य जल संसाधन विभाग द्वारा किया जायेगा एवं एनीकट का स्वामित्व जल संसाधन विभाग के पास रहेगा।

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2. संस्थान, महानदी में जल आहरण हेतु प्रस्तावित एनीकट के निर्धारित स्थल से अपने संयंत्र स्थल तक जल ले जाने हेतु आवश्यक व्यवस्था (इंटेकवेल/पंप हाउस का निर्माण, पाईप लाईन बिछाना आदि) जल संसाधन विभाग के अनुमोदन उपरांत स्वयं के व्यय पर करेगा। संस्थान को आबंटित जल, ग्रीष्मकाल में यदि बालपुर स्थित इंटेकवेल में उपलब्ध नही हो पाता है तो संस्थान की ग्रीष्मकाल की आवश्यकतानुसार जल संग्रहण हेतु बालपुर के ऊपर प्रस्तावित कासीडीह एनीकट से जल आहरण की आवश्यक व्यवस्था संस्थान को करनी होगी। इसके साथ ही संस्थान को कम से कम 15 दिनों की जल आवश्यकता के अनुरूप जल संग्रहण हेतु अपने संयंत्र परिक्षेत्र में बेलेन्सिंग रिर्जवायर (तालाब) का निर्माण अनिवार्य रूप से करना होगा।

3. प्रकरण में प्रदायित जल की मात्रा के माप हेतु इंटेकवेल (पंप हाउस) में मानक जल मापन यंत्र की स्थापना संस्थान को स्वयं के व्यय पर करनी होगी, जिसकी समय–समय पर विभाग द्वारा जांच की जा सकेगी।

4. प्रकरण में प्रस्तावित एनीकट में डूबान तथा जल ले जाने हेतु पाईप लाईन बिछाने के लिए भू–अर्जन एवं संबंधित जो भी समस्या आयेगी उसका निराकरण संस्थान स्वयं के व्यय पर स्वयं करेगा। इसके साथ ही छ.ग. राज्य की आदर्श पुनर्वास नीति–2007 (यथा संशोधित) का पालन अनिवार्य होगा।

5. संस्थान द्वारा वास्तविक जल आहरण के आधार पर स्वीकृत जल–मात्रा का आंकलन एवं समीक्षा समय–समय पर शासन द्वारा की जा सकेगी।

6. महानदी में जल संग्रहण हेतु प्रस्तावित कासीडीह एनीकट एवं महानदी से जल आहरण के प्रस्तावित स्थल (बालपुर के निकट स्थित इंटेकवेल) के ऊपर एवं नीचे जल उपयोग हेतु जल संसाधन विभाग स्वतंत्र होगा एवं निर्माण किये जाने वाले एनीकट में संस्थान द्वारा वांछित जल के अतिरिक्त जल के उपलब्ध होने पर उसके उपयोग हेतु भी जल संसाधन विभाग स्वतंत्र होगा।

7. संस्थान, स्थानीय लोगों के जल उपयोग जैसे पेयजल एवं निस्तार आदि हितों पर किसी प्रकार का प्रतिकूल प्रभाव नहीं डालेगा एवं इस हेतु आवश्यक जल की मात्रा एनीकट में हमेशा सुरक्षित रखी जायेगी।

8. संस्थान, उपयोग के पश्चात अपने संयंत्र से निस्सारित जल का रि–साइकलिंग करके इसका उपयोग करेगा एवं छत्तीसगढ़ पर्यावरण संरक्षण मंडल द्वारा निर्धारित मानकों एवं नियमों के अनुसार उपचार कर निस्सारित करेगा, ताकि क्षेत्र में जल प्रदुषण की कोई समस्या उत्पन्न न हो।

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9. संस्थान को जल का उपयोग प्रारंभ करने के पूर्व विभाग के निर्धारित प्ररूप–7(क) में मुख्य अभियंता, हसदेव कछार, जल संसाधन विभाग, बिलासपुर के निर्देशानुसार/ अनुमोदन उपरांत अनुबंध करना अनिवार्य होगा।

10. संस्थान को शासन द्वारा शासकीय स्त्रोत से औद्योगिक जल उपयोग हेतु समय–समय पर निर्धारित जल–दर पर जल कर एवं कमिटमेंट चार्जेस का

नियमानुसार भुगतान जल संसाधन विभाग को अनिवार्य रूप से करना होगा एवं कमिटमेंट चार्जेस के संबंद्ध में शासन द्वारा जारी परिपत्र दिनांक 20.04.2007 का पालन संस्थान के लिए बंधनकारी होगा।

11. प्रकरण में जल प्रदाय की यह स्वीकृति वर्तमान में उपलब्ध आंकडों/परिस्थितियों पर आधारित है। भविष्य में किसी कारणवश नदी के जल प्रवाह/एनीकट के जल संग्रहण में कमी होने पर शासन इसके लिए जवाबदेह नहीं रहेगा एवं इस संबंध में शासन के विरूद्ध किसी प्रकार का दावा मान्य योग्य नहीं होगा।

12. शासन द्वारा कमिटमेंट चार्जेस के संबंध में जारी परिपत्र दिनांक 20.04.2007 के अनुसार संस्थान को इस स्वीकृति पत्र के जारी होने के दिनांक से 02 वर्षों के अंदर जल का उपयोग प्रारंभ करना होगा। इस अवधि के दौरान संस्थान द्वारा यदि जल का उपयोग प्रारंभ नहीं किया जाता है तो उपयोग प्रारंभ करने की समय–सीमा अधिकतम 2 वर्ष की अवधि के लिए और बढ़ाई जा सकेगी एवं इस हेतु प्रथम वर्ष में आबंटित/आरक्षित जल की संपूर्ण मात्रा के 5% अंश एवं दूसरे वर्ष में 10% अंश की जल–कर राशि अतिरिक्त कमिटमेंट चार्जेस के रूप में संबंधित वर्ष की समाप्ति के पश्चात 3 माह के अंदर जमा करनी होगी। अतिरिक्त कमिटमेंट चार्जेस की निर्धारित अधिकतम 2 वर्ष की समय–सीमा के अनुसार भुगतान करने के पश्चात भी यदि संस्थान द्वारा जल का उपयोग प्रारंभ नहीं किया जाता है एवं उपरोक्तानुसार निर्धारित समस्त शर्तों का पालन नहीं किया जाता है तो तत्काल प्रभाव से जल आबंटन/आरक्षण स्वमेव समाप्त माना जायेगा एवं शासन को इस जल को अन्य किसी के उपयोग हेतु आबंटित/आरक्षित करने की स्वतंत्रता होगी।

सहपत्र :– शून्य

(*दिलीप वासनीकर*)
अतिरिक्त सचिव,
जल संसाधन विभाग,
मंत्रालय,रायपुर

.....4

ANNEXURE-III (a)

MONNET ISPAT & ENERGY LIMITED, RAIGARH

AMBIENT AIR QUALITY MONITORING REPORT																				
PERIOD : OCTOBER-2019 TO MARCH-2020																				
Station Name/Parameter	**CAAQMS-1 Colony Area (West Direction)**					**CAAQMS-2 Near Oxygen Plant (South Direction)**					**CAAQMS-3 Main Gate Near Naharpali (North Direction)**					**CAAQMS-4 CECB Office Raigarh (East Direction)**				
	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/STD.	**Prescribed Standard: PM_{10}-100 µg/m^3 $PM_{2.5}$-60 µg/m^3; SO_2 & NOx-80 µg/m^3 and CO-2.0 mg/8Hr.**																			
Oct-19	56.8	30.5	0.2	9.7	11.7	61.0	33.5	0.6	5.6	9.3	54.3	31.2	0.7	14.9	6.5	49.4	29.0	0.6	12.5	12.5
Nov-19	67.6	38.1	0.6	13.3	17.2	63.9	34.5	0.5	11.4	11.6	66.5	35.6	0.8	7.2	13.5	71.7	36.4	0.8	8.5	14.4
Dec-19	60.2	35.2	0.5	13.3	18.8	51.6	32.8	0.5	13.9	12.1	73.8	40.4	0.8	6.0	14.4	65.9	30.0	0.7	12.9	15.2
Jan-20	65.4	36.6	0.3	13.7	20.8	63.1	38.7	0.6	13.7	13.0	72.9	41.9	0.7	8.4	15.2	71.6	36.9	0.9	11.1	17.4
Feb-20	65.8	41.3	0.5	16.5	26.9	70.5	43.6	0.7	15.7	17.6	69.3	39.7	0.7	10.4	21.4	73.8	34.2	1.2	6.1	16.7
Mar-20	59.1	34.9	0.5	10.5	23.3	63.2	34.3	0.6	11.0	15.0	66.7	36.1	0.4	7.6	8.8	62.6	26.8	0.5	8.2	19.5

Note: *All values are in µg/m^3, except CO i.e. mg/8Hr.*

HOD (Environment)

ANNEXURE-III (b)

MONNET ISPAT & ENERGY LIMITED,RAIGARH

STACK EMISSION MONITORING REPORT																	
PERIOD : OCTOBER-2019 TO MARCH-2020																	
Station Name/Parameter	**STACK- 1 (DRI Kiln1 & Kiln-2)**		**STACK- 2 (DRI Kiln 3& Kiln-4)**		**STACK- 3 (DRI Kiln 5 & Kiln-6)**		**STACK- 4 (CFBC)**			**STACK- 5 (AFBC)**			**STACK- 6 (Rolling Mill)**	**STACK- 7 (Blast Furnace)**	**STACK- 8 (Sinter Plant)**	**STACK- 9 (SMS)**	**STACK- 10 (Pellet Plant)**
	SO_2	**PM**	**SO_2**	**PM**	**SO_2**	**PM**	**SO_2**	**NOx**	**PM**	**SO_2**	**NO_X**	**PM**	**PM**	**PM**	**PM**	**PM**	**PM**
MONTH/ STD.	Prescribed Standard: PM- 50 mg/Nm^3 ; SO_2-600 mg/Nm^3 and NOx-300 mg/Nm^3																
Oct-19	202	32	208	30	216	36	*	*	*	*	*	*	*	*	*	*	29
Nov-19	236	29	227	31	214	32	*	*	*	*	*	*	*	*	*	*	26
Dec-19	220	29	233	30	248	32	*	*	*	*	*	*	*	*	*	*	27
Jan-20	233	30	228	31	200	33	308	163	34	*	*	*	*	*	*	*	29
Feb-20	235	27	202	32	221	38	293	142	42	*	*	*	15	20	34	*	28
Mar-20	210	31	220	33	206	42	258	148	42	*	*	*	09	21	40	12	22

- *Unit Closed*

All values are in mg/Nm^3

HOD (Environment)

ANNEXURE-III (c)

MONNET ISPAT & ENERGY LIMITED,RAIGARH

NOISE LEVEL MONITORING REPORT (WORK ZONE & AMBIENT)

PERIOD : OCTOBER-2019 TO MARCH-2020

SN	LOCATION	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
POWER PLANT							
1	TG 2	*	*	*	84.4	85.1	84.2
2	TG 3	*	*	*	84.7	84.0	84.8
3	Boiler 80 MW	*	*	*	83.0	82.2	82.9
4	CHP Unit	*	*	*	69.3	71.5	72.1
SPONGE IRON DIVISION							
5	Near Kiln # 1	82.1	81.5	83.0	83.5	82.8	81.9
6	Near Kiln # 3	82.8	83.6	81.7	83.1	83.8	82.0
7	Near Kiln # 6	81.5	81.5	82.1	82.8	84.6	83.0
8	RMH Unit	73.6	82.4	82.6	81.5	82.7	80.9
9	PSB Area	81.0	81.7	84.2	83.0	84.4	82.1
SINTER PLANT							
10	ESP Area	*	*	*	*	84.1	81.9
11	Sinter Cooler Area	*	*	*	*	81.8	81.1
12	Control room	*	*	*	*	70.8	72.0
SMS							
13	Near EAF	*	*	*	*	*	84.2
14	Near LRF	*	*	*	*	*	85.0
15	Billet caster	*	*	*	*	*	83.0
BLAST FURNACE							
16	Blast Furnace Control room	*	*	*	*	70.1	72.1
17	BF Stove (Cast House)	*	*	*	*	85.5	84.0
18	Pump House	*	*	*	*	85.0	83.9
ROLLING MILL							
19	Reheating Area	*	*	*	*	*	83.2
20	CNC Room	*	*	*	*	*	79.4
21	Cooling Bed	*	*	*	*	*	82.1
PELLET PLANT							
22	Near Ball Mill	83.7	83.2	82.9	82.0	83.0	82.6
23	Near Indurating Furnace	87.2	87.7	84.6	84.3	85.0	85.5
24	Near Raw Material Area	70.6	82.0	82.5	80.9	81.6	80.9
25	Near Thickener	86.0	84.0	83.1	83.1	83.8	83.0
AMBIENT							
26	Main Gate (Outside)	61.7	60.6	60.6	59.7	61.4	63.6
27	Gate No. 2 (Near WTP-2)	66.9	63.0	58.4	59.0	59.6	62.6
28	Gate-3 (Near Pellet Plant)	64.7	69.0	67.9	67.2	68.0	68.5

***** *Unit Closed*

All values are in ***dB(A)***

HOD (Environment)

ANNEXURE-IV
Health Check-up Record

EMP. NAME Bahadur Lal Patel AGE /SEX 43/M EMP. CODE 3124
DOE. 31.12.19 DOI. 06.12.12 DESIGN. L.T. DEPT. Medical
AADHAR No. 6732 0524 1684 ESIC. No.

13/06/18

FORM 21 (Annexure)
[Prescribed Under Rule (19)]
Health Register
(In respect of persons employed in occupations declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

(1) **GENERAL EXAMINATION :**
HEIGHT: 172 CM. WEIGHT 64 KG. BMI 21.69
CHEST: INSPIATION 101 CM. EXPIRATION 92 CM.
BUILT – AVERAGE / STRONG / POOR
THROAT ____ TONGUE ____ TONSILS ____
TEETH ____ GUMS ____ THYROID ____
LYMPH NODES ____
ADDITIONAL FINDINGS ____

(2) **CARDIO-VASCULAR SYSTEM :**
PULSE : 84 / MIN. REGULAR / IRREGULAR PERIPHERAL PULSE – FELT / NOT FELT
B.P. 110/70 mm of Hg
HEARRT SOUND : N
MURMUR IF ANY ____
ADDITIONAL FINDING (S) IF ANY ____

(3) **RESPIRATORY SYSTEM :**
SHAPE OF CHEST : N
CHEST MOVEMENTS : ____
TRACHEA : ____
BREATH SOUNDS : normal

(4) **GASTRO-INTESTINAL SYSTEM :**
LIVER : ____ SPLEEN : ____
ANY ABDOMINAL LUMPS : ____

(5) **EXAMINATION OF EYES :**
EXTERNAL EXAM : ____ SQUINT : ____
NYSTAGMUS : ____
COLOUR VISION - NORMAL / DEFECTIVE
FUNDUS (L) (R)
INDIVIDUAL COLOUR IDENTIFICATION - NORMAL / DEFECTIVE
DISTAN – VISION (WITHOUT GLASSES)
RIGHT 6/6 LEFT 6/6
(WITH GLASSES) RIGHT ____ LEFT ____
NEAR VISION (WITHOUT GLASSES)
RIGHT N/12 LEFT N/12
(WITH GLASSES) RIGHT N/6 LEFT N/6
NIGHT BLINDNESS : (NYCTALOPIA) : ____

(6) **EXAMINATION OF EAR NOSE & THROAT :**
EXTERNAL EXAM. ____

(7) **GENITO URINARY SYSTEM :**
HERNIA : ____ HYDROCELE / VARICOCELE ____
CRYPTORCHIDISM ____ PHIMOSIS N
VARICOSE VEINS ____ SIGNS OF STD ____
OTHER EXAMINATION FOR FEMALES :
MENSTRUAL HISTORY OBSTETRIC HISTORY
MENARCHE AT ____ Yrs. GRAVIDA ____ PARA ____
LMP ____
MENSTRUAL IRREGULARITY. IF ANY

(8) **LAB INVESTIGATIONS :**
URINE : ALBUMIN Nil SUGAR Nil
MICROSCOPY : NAD, STOOL NA

upload - 8

HAEMOGRAM

Blood Group : B' Rh Factor : POSITIVE (+ve) Hb 14.3 TLC 12,600 RBC 4.8

DLC – P 72 L 20 E 02 M 06 B 00 Platelets count 2,44000

LIPID PROFILE

Serum cholesterol : , S/Triglycerides: 150.0 , 111.0

HDL, LDL: 29.0 , 98.8

HEPATIC PROFILE

SGPT :, SGOT : 35.7 , 39.2

Alkaline Phosphatase : 178.1

RENAL PROFILE

Blood Urea, S. Creatinine: 15.0 , 0.8

METABOLIC

Blood Sugar – F: , Blood Sugar – PP: , S. Uric acid F-81.8 , 112.3 , LCA - 6.6

(9) **OTHER INVESTIGATIONS :**

X-Ray Chest (In normal persons once in three years, Nr

In case of any abnormality x-ray can be done at shorter intervals)

ECG (In case of any abnormality further tests should be carried out) N

Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Other :

(10) **PULMONARY FUNCTION TEST :**

	FVC	FEV 1	FEV 1 / FVC
Predicted			
Measured			
% of Predicted	126	145	11.5

Remarks :

(11) **Audiometry examination.** - PTA of both ears at frequency of **125, 250, 500, 1000, 2000, 4000, 8000** Cycles per second RT. PTA. = 16.25 dB LT. PTA. = 12.5 dB

(12) **Medical examination of canteen staff**

a - Blood examination for venereal disease and routine examination

b - Stool and urine examination for worm infection

c - Screening for skin disease (scabies and other)

d - X-ray and other tests for T. B.

(13) **Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories 1962 --**

.....

Signature (with date) of Factory Medical Officer

27/1/2020

Signature (with date) of Certifying Surgeon

Sign. :-

Name :- Bahadur Lal Patel

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EMP. NAME Mr. B.S Dash AGE /SEX 49/M EMP. CODE 3230
DOE. 10/12/19 DOJ. 08/05/13 DESIGN. Radiographer DEPT. Medical (HR Addl)
AADHAR No. 4682 3576 1652 ESIC. No.

30/04/18

FORM 21 (Annexure)
[Prescribed Under Rule (19)]
Health Register
(In respect of persons employed in occupations declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

(1) GENERAL EXAMINATION :
HEIGHT: 180 CM. WEIGHT 83 KG. BMI 25.61
CHEST: INSPIATION 103 CM. EXPIRATION 98 CM.
BUILT – AVERAGE / STRONG / POOR
THROAT _____ TONGUE _____ TONSILS _____
TEETH _____ GUMS _____ THYROID _____
LYMPH NODES _____
ADDITIONAL FINDINGS _____

(2) CARDIO-VASCULAR SYSTEM :
PULSE : 70 / MIN. REGULAR / IRREGULAR PERIPHERAL PULSE – FELT / NOT FELT
B.P. 120/82 mm of Hg
HEARRT SOUND : _____
MURMUR IF ANY _____
ADDITIONAL FINDING (S) IF ANY _____

(3) RESPIRATORY SYSTEM : NAD
SHAPE OF CHEST : _____
CHEST MOVEMENTS : _____
TRACHEA : _____
BREATH SOUNDS : _____

(4) GASTRO-INTESTINAL SYSTEM :
LIVER : _____, SPLEEN : _____
ANY ABDOMINAL LUMPS : _____

(5) EXAMINATION OF EYES :
EXTERNAL EXAM : _____, SQUINT : _____
NYSTAGMUS : _____
COLOUR VISION - NORMAL / DEFECTIVE
FUNDUS (L) (R)
INDIVIDUAL- COLOUR IDENTIFICATION - NORMAL / DEFECTIVE
DISTAN – VISION (WITHOUT GLASSES)
RIGHT 6/12 LEFT 6/9
(WITH GLASSES) RIGHT 6/6 LEFT 6/6
NEAR VISION (WITHOUT GLASSES)
RIGHT N-8 LEFT N-8
(WITH GLASSES) RIGHT N-6 LEFT N-6
NIGHT BLINDNESS : (NYCTALOPIA) : _____

(6) EXAMINATION OF EAR NOSE & THROAT :
EXTERNAL EXAM. _____

(7) GENITO URINARY SYSTEM :
HERNIA : _____ HYDROCELE / VARICOCELE _____
CRYPTORCHIDISM _____ PHIMOSIS _____
VARICOSE VEINS _____ SIGNS OF STD _____
OTHER EXAMINATION FOR FEMALES :
MENSTRUAL HISTORY OBSTETRIC HISTORY
MENARCHE AT _____ Yrs. GRAVIDA _____ PARA _____
LMP _____
MENSTRUAL IRREGULARITY. IF ANY

(8) LAB INVESTIGATIONS :
URINE : ALBUMIN NIL SUGAR NIL
MICROSCOPY : WNL, STOOL WNL

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HAEMOGRAM
Blood Group : 'O' Rh Factor : Positive Hb 14.6 TLC 10,100 RBC 5.3
DLC – P 44 L 50 E 02 M 04 B 00 Platelets count. 2,28

LIPID PROFILE
Serum cholesterol : , S/Triglycerides: 206.0 , 164.0
HDL, LDL: 48.0 , 125.2

HEPATIC PROFILE
SGPT :, SGOT : 30.9 , 23.3
Alkaline Phosphatase : 229.6

RENAL PROFILE
Blood Urea, S. Creatinine: 26.0 , 0.8

METABOLIC
Blood Sugar – F: , Blood Sugar – PP: , S. Uric acid : 84.3 , 114.7 , 6.4

(9) OTHER INVESTIGATIONS :
X-Ray Chest (In normal persons once in three years, In case of any abnormality x-ray can be done at shorter intervals)
ECG (In case of any abnormality further tests should be carried out)
Ultra Sound Whole abdomen (In normal persons once in three years in case of any abnormality can be done at shorter intervals)

Other :

(10) PULMONARY FUNCTION TEST :

	FVC	FEV 1	FEV 1 / FVC
Predicted			
Measured			88
% of Predicted	93	104	212

Remarks :

(11) Audiometry examination. - PTA of both ears at frequency of **125, 250, 500, 1000, 2000, 4000, 8000** Cycles per second

(12) Medical examination of canteen staff

a - Blood examination for venereal disease and routine examination

b - Stool and urine examination for worm infection

c - Screening for skin disease (scabies and other)

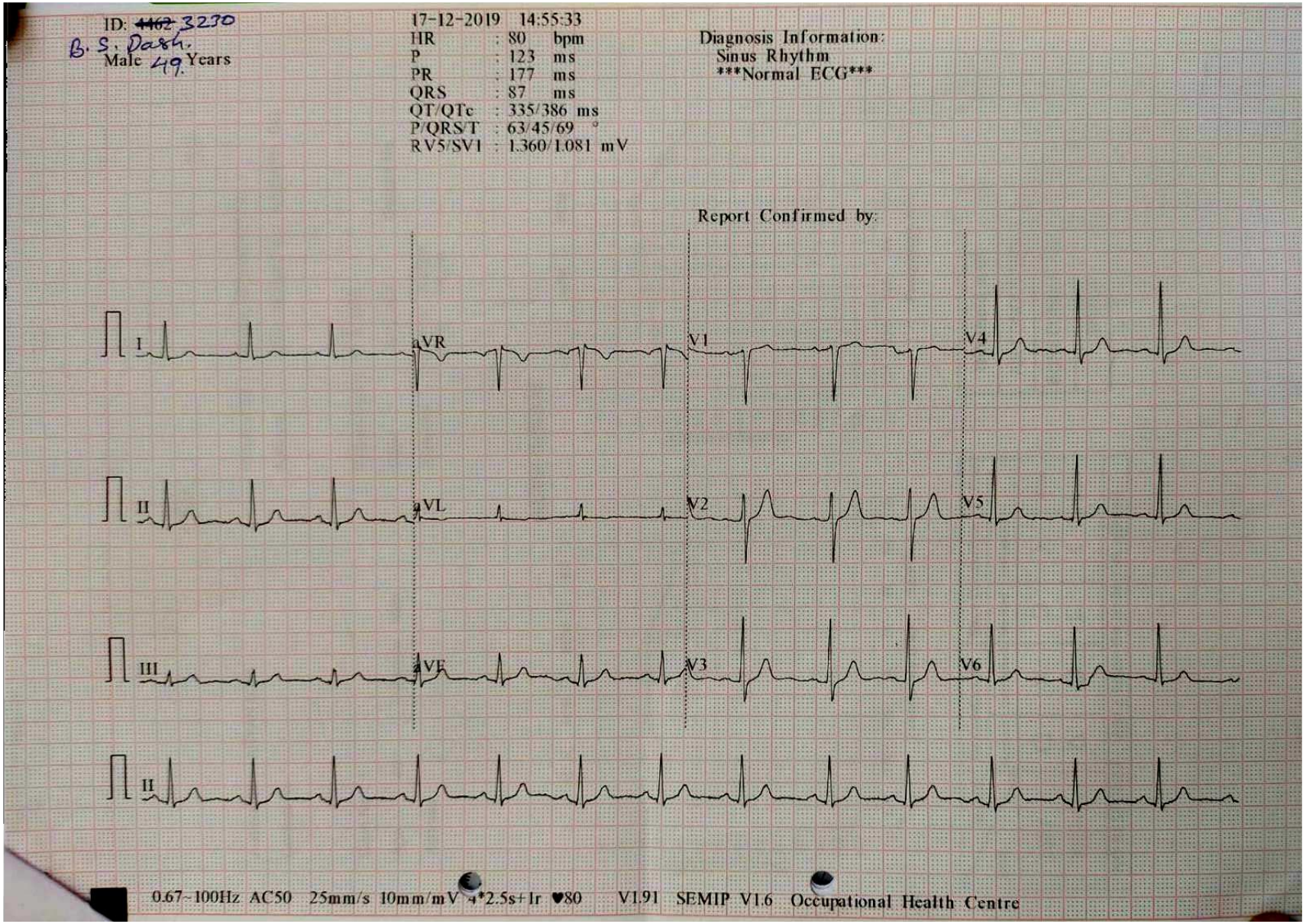
d - X-ray and other tests for T. B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of rule 107 of C.G. factories 1962 --

Signature (with date) o
Factory Medical Offic

Signature (with date)
Certifying Surgeon

Sign. :-
Name :- B. S. Dash.


ID: ~~4162~~ 3230
B. S. Dash.
Male 49 Years
17-12-2019 14:55:33
HR : 80 bpm
P : 123 ms
PR : 177 ms
QRS : 87 ms
QT/QTc : 335/386 ms
P/QRS/T : 63/45/69 °
RV5/SV1 : 1.360/1.081 mV
Diagnosis Information:
Sinus Rhythm
Normal ECG
Report Confirmed by:
I
aVR
V1
V4
II
aVL
V2
V5
III
aVF
V3
V6
II
0.67-100Hz AC50 25mm/s 10mm/mV 4*2.5s+1r ♥80 V1.91 SEMIP V1.6 Occupational Health Centre

ANNEXURE-V (a)
DATA DISPLAYED AT MAIN GATE

ANNEXURE-V (b)
DATA PUBLISHED IN WEBSITE