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No. JSW/S/O/2021/244

Date: 18/11/2021

To,
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (Eastern Zone),
A/3, Chandersekharapur, Bhubaneswar – 751023

Sub: - Submission of Six-monthly EC compliance report in respect of Jajang Iron Ore Mine of M/s JSW Steel Ltd for the period April 2021 to September 2021.

Ref: - 1. Vesting Order dated 29th May 2020 issued by GoO, Steel and Mines Department.
2. Environment Clearance Letter dated 13.03.2015 and amendment dated 09.11.2015 issued by MOEF&CC, GOI.

Dear Sir,

We would like to submit that M/s JSW Steel Limited has been granted mining lease the Jajang Iron Ore block after emerging as the ‘Preferred Bidder’ in the e-auction conducted by the State Government of Odisha in March, 2020. Subsequent to the issuance of grant order the lease deed has been executed and registered on 27/06/2020. Now the mining operation has already been commenced from the beginning of July, 2020.

Prior to issuance of grant order, the vesting order has been issued under Rule 9(A)(2) of the Minerals Concession (Amendment) Rules, 2020, by virtue of which M/S JSW Steel has been deemed to have acquired all valid rights, approvals, clearances, licenses and the like vested with the previous lessee for a period of two years. The list of such clearances which got vested with us includes Environment Clearance, FC, Mining Plan, CTO, CTE, Surface right groundwater drawl etc.

We are submitting herewith six-monthly EC compliance report of Jajang Iron Ore Mine, M/s JSW Steel Ltd. for the period April 2021 to September 2021 as per EIA notification 2006. The same is also attached in Soft copy to your good office on e-mail to roez.bsr-mef@nic.in; for your ready reference.



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We trust that the measures taken towards environmental safeguards comply with the stipulated conditions. We look forward to your guidance which shall certainly help us in our endeavor for improving upon our environmental management practices.

Seeking your co-operation as always.

Thanking you,

Yours Faithfully
For JSW Steel Ltd

Baswaraj M Dalgade
(Authorized Signatory)

Encl: As above

Copy to:

1. The Member Secretary, Central Ground Water Authority, Government of India, Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, Bhujal Bhawan, CGO Complex, NH-IV, Faridabad- 121 001.
2. Zonal Office Kolkata, Central Pollution Control Board, South end Conclave, Block 502, 5th and 6th Floors, 1582 Razidanga Main Road, Kolkata, West Bengal 700107.
3. The Regional Director, Central Ground Water Board, South Eastern Region, Bhujal Bhawan, Khandagiri Square, NH-5, Bhubaneswar, Odisha, Pin- 751001
4. The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012.
5. The Regional Officer, State Pollution Control Board, Baniapat, DD College Road, Keonjhar, Odisha-758001.

ENVIRONMENT CLEARANCE COMPLIANCE STATUS -JAJANG MINE

Six Monthly Compliance report of Environmental Clearance for Jajang Iron Ore Mine, JSW Steel Ltd. for the period from- April 2021 to September 2021.

Reference letter from MoEF&CC, New Delhi- J-11015/96/2012-IA.II(M), Dtd. 13.03.2015 and 09.11.2015.

Capacity- 16.5 MTPA of iron ore (12.8 MTPA ROM by fresh excavation + 3.7 MTPA by rehandling of low grade old dump/ mineral stacks).

Status- Operating Mine as per approved Mine Plan of 12.8 MTPA ROM by fresh excavation only.

A. Specific Conditions

Sl. No.	Specific Conditions	Compliance
I	The dump height should be maintained upto 60 meter and overall slope of the dump shall be upto 30°.	Being complied. The active dump height is around 26 meter and well within the limit and as per approved modified mine plan, ultimate angle of repose of 28 ⁰ will be maintained once the dump stabilized.
Ii	The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.	Being Complied. CTE and CTO have been vested to JSW Steel Ltd for 2 years. New CTE vide letter no 5113/IND-II-CTE-6463 dated 26.03.2021 and CTO vide letter no 5507/IND-I-CON-247 dated 31.03.2021 have been obtained from OSPCB.
Iii	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	No Wild Life Sanctuary/Tiger Reserve/National Park/ Elephant corridor within the core as well as within the buffer zone of the project. TOR has been approved dated 05.02.2021 for new EC and EIA report is under progress and will obtain if required.
Iv	The project proponent shall obtain prior approval of the competent authorities for drawl of requisite quantity of surface water and ground water for the project before commencing the mining activity.	NOC from CGWA for 1000 m3/day or 365000 m3/year is already vested to JSW for 2 years. New application for the NOC has been applied.
V	No mining activities are allowed in forest area for which the FC is not available.	The present mining operation is restricted within vested Forest area only as per FC F.No.8-88/98-FC, Dt:21.07.2000 over 44.70 ha and F.No.8-88/98-FC (Vol), Dt:28.08.2014 over 447.811 ha (including 44.70 ha forest land already diverted). FC Proposal applied for 543.916 ha vide Lr No: FP/OR/MIN/50705/2020 dated 09.10.2020 and same is under evaluation. Advance NPV has already been paid. Further, as per MMDR Amendment Act 2021, the Forest clearances and other permissions continue to be valid even after expiry or permission of lease till the minerals exhausted. Hence, the Forest

		Clearance for 447.811 ha (including 44.70 ha forest land already diverted) will be valid till life of the mine.
Vi	The condition 3(iii)b of the guidelines issued by the Forest Conservation Division in this Ministry vide F. No. 1 1-362/2012-FC dated 1st February, 2013 is not being prescribed in view of Hon'ble Supreme Court order dated 27.01.2014 and the EC is subject to the final order of the Supreme Court in the matter.	New FC Proposal applied for 543.916 ha vide Lr No: FP/OR/MIN/50705/2020 dated 09.10.2020. Advance NPV has already been paid. Further, as per MMDR Amendment Act 2021, the Forest clearances and other permissions continue to be valid even after expiry or permission of lease till the minerals exhausted. Hence, the Forest Clearance for 447.811 ha (including 44.70 ha forest land already diverted) will be valid till life of the mine
vii	Traffic density on the route of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.	Being complied. Iron ore lumps and iron ore fines extracted from the mine is being transported through railway/road/port to JSW & other Steel Plants. There are two nos of railway siding namely RMJC-JSW Railway Siding and part of BIL Siding existing within the ML area. These sidings are being used for transportation of ore of Jajang mine. Commercial notification of JSW RMJC Siding has been issued by SER, Kolkata in favour of M/s JSW Steel Ltd on 02.11.2020.
Viii	As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analysed for their mineralogical composition and records maintained.	Regular monitoring of ambient air quality parameters along with mineralogical composition being carried out and Monitoring Reports are attached as <u>Annexure 1a</u> . Vendor is a recognized NABET, MoEF & CC accredited laboratory.
ix	Mineral handling plant shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Dust Suppression System (Dry fog system) being provided at all appropriate places of mineral handling plants (crusher & screening plant) and other areas. Same are being properly maintained and operated for proper dust control.
X	Effective safeguard measures such as conditioning of ore with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the	Regular water sprinkling through mobile water sprinkler tankers being carried out on haul roads and nearby mineral dispatch roads (express highway) to avoid generation of dust during movement of vehicles. Fixed auto sprinklers on both sides of major haul road and approach roads of the mine is in commissioning phase. However, as an interim arrangement frequency of the Mobile water tankers sprinkling has been increased to suppress the dust

	Central Pollution Control Board in this regard.	emission generated due to transportation of vehicles. Regular maintenance of Haul roads is being carried out to avoid generation of dust during movement of vehicles. Regular monitoring of ambient air quality parameters being carried out and data is well within the limit prescribed. AAQ Monitoring reports are attached as Annexure 1a .
xi	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Maximum rain water has already been channelized to Mine Pits and same is being utilized in dust suppression and other mining activities. Existing Retention wall, Garland drains, Check Dams and setting pits being maintained. Detailed Hydrology study is under progress, recommendations of the study and consultation with CGWB, additional rain water harvesting measures/structures will be implemented for rainwater harvesting.
xii	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezo meters during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	Regular monitoring of ground water level and quality being carried out and Monitoring Reports of pre monsoon (May 2021) and monsoon season (August 2021) are attached as Annexure 1b . Vendor is a recognized NABET, MoEF & CC accredited laboratory.
xiii	The project proponent shall regularly monitor the flow rate of the natural water streams Jalpa, Kakrapani Nallah and Baitarni river and the Suna nadi flowing adjacent to the mine lease and maintain the records.	Being complied and monitoring reports of flow rate of natural water streams are attached as Annexure 1b .

xiv	The reclaimed and rehabilitated area shall be afforested. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.	Being Complied. Around 44.62 ha of land has been backfilled by erstwhile lessee (M/s Rungta Pvt Ltd). As per approved modified mine plan, during the plan period an area of 22.56 Ha will be backfilled. Thus the total backfilling area at the end of plan period will be 67.18 ha. It has been planned to reclaim the mined out area by Back-filling and plantation/re-grassing in the conceptual period and compliance status of the same will be submitted to RO, MOEF&CC on six monthly basis.
xv	Dimension of the retaining wall at the toe of temporary over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Being Complied. Existing Retention wall being maintained to prevent any direct flow of runoff to nearby water bodies as per requirement. So far, the retaining wall upto a length of 3323 m around the dump, backfilling area etc has been constructed by by erstwhile lessee (M/s Rungta Pvt Ltd) and necessary repair of retaining wall is being undertaken on regular basis. As per approved modified mine plan, back filling site and OB dump area are proposed to be surrounded by retaining wall (1.0m Height) and garland drains (1.0m depth) to prevent any direct flow of runoff to nearby water bodies.
xvi	Plantation shall be raised in a specified area including a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around the higher benches of excavated void to be converted in to water body, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per Ha.	Being Complied. More than 7500 saplings (Yearly Plantation of FY 2021-22) have been planted as per approved mine plan in the safety zone, and other areas before monsoon season.
xvii	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Drills equipped with dust extractors/ equipped with water injection system being operated in mine. Controlled blasting is in place. Dust Suppression System (Dry fog system) being provided at all appropriate places of mineral handling plants (crusher & screening plant) and other areas. Same are being maintained for proper dust control. Regular water sprinkling through mobile water sprinkler tankers being carried out on haul roads and nearby mineral dispatch roads (express highway) to avoid generation of dust during movement of vehicles.

		Regular maintenance of Haul roads is being carried out to avoid generation of dust during movement of vehicles. Regular monitoring of ambient air quality parameters being carried out and data is well within the limit prescribed. AAQ Monitoring reports are attached as Annexure 1a .
xviii	Process water discharge and/or any waste water shall be properly treated to meet the prescribed standards before reuse/discharge. The runoff from temporary OB dumps and other surface run off shall be analyzed for iron and in case its concentration is found higher than the permissible limit, the waste water should be treated before discharge/reuse.	No process water being discharged from the mine. Regular Monitoring of water quality parameters being carried out. Monitoring reports are attached as Annexure 1b .
xix	The decanted water from the beneficiation plant and slime/tailing pond shall be re-circulated within the mine and there shall be zero discharge from the mine.	Not applicable as there is no EC and CTO available for the beneficiation plant.
xx	Regular monitoring of the flow rate of the springs and perennial nallahs shall be carried out and records maintained.	Being complied and monitoring reports of flow rate of springs and perennial nallahs are attached as Annexure 1b .
xxi	Regular monitoring of water quality, upstream and downstream of river shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board	Regular monitoring of water quality of upstream and downstream being carried out and Monitoring Reports are attached as Annexure 1b . Vendor is a recognized NABET, MoEF & CC accredited laboratory.
xxii	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	Maximum rain water has already been channelized to Mine Pits and same is being utilized in dust suppression and other mining activities. Existing Retention wall, Garland drains, Check Dams and setting pits being maintained. Detailed Hydrology study is under progress, recommendations of the study and consultation with CGWB, additional rain water harvesting measures/structures will be implemented for rainwater harvesting.
xxiii	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and	Mineral carrying trucks are not allowed to go out of the lease area without tarpaulin cover and is being monitored by security personnel at the exit gate.

	in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	Vehicular emissions being regularly monitored. Also, Security personnel are also do not allow the vehicles to enter into the mines without having valid PUC.
xxiv	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for workshop and wastewater generated during mining operation.	Workshop along with ETP/Oil & Grease trap system being provided within lease area. We have taken possession of the colony recently and are in process for revamping of colony along with existing STP in same will be completed phase-wise in time bound manner.
xxv	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	DGPS Surveyed Mining lease boundary superimposed on High Resolution Satellite image of Jajang Iron Ore Mine duly vetted by M/s ORSAC has already been prepared and submitted along with last half yearly compliance report vide letter dated 21.05.2021.
xxvi	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project are being carried periodically and records are maintained. A medical dispensary with full time Doctor has been appointed at mine area for the health check-up of employees and also the locals.
xxvii	The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals in the public hearing as well as during consideration of the project, while implementing the project.	Jajang Mining operation was started from 1 st July 2020 and various community development initiatives are under implementation for community upliftment. Need based assessment survey has been completed and action plan is under implementation for the compliance. TOR has been approved on 05.02.2021 for new EC. EIA report is under progress, will comply after the new public hearing will conduct.
xxviii	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All	No Wild Life Sanctuary/Tiger Reserve/National Park/ Elephant corridor within the core as well as within the buffer zone of the project. TOR has been approved dated 05.02.2021 for new EC and EIA report is under progress and action plan for conservation of flora and fauna will be prepared if required.

	the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	
xxix	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Final Mine Closure plan was approved by erstwhile lessee. After the expiry of the lease on 31.03.2020, the lease was put for auction. After getting the lease through auction, mining plan along with progressive mine closure plan has been approved by IBM. As per Approved Modified Mining Plan, iron ore has not been exhausted within the mining lease area. The same will be submitted 2 years prior the exhaustion of ore as per statutes.

B. General Conditions

Sl. No.	General conditions	Compliance
i	No change in Iron Ore Processing/Beneficiation technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Not Applicable. There is no EC and CTO available for the beneficiation plant.
ii	No change in the calendar plan including Processing/Beneficiation of mineral iron ore and waste should be made.	Noted and Being complied as per approved mine plan. There is no EC and CTO available for the beneficiation plant.
iii	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 microns i.e., PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central	Regular Ambient air quality monitoring being carried out at four AAQ monitoring stations in core zone and four stations in buffer zone. AAQ monitoring reports are attached as Annexure 1a .

	Pollution Control Board once in six months	
iv	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Noise producing equipment's are covered as far as practicable. Workers engaged in Operations are provided with ear plugs / muffs. Besides this, acoustic enclosures are provided for all machines operating within the mines. Controlled blasting is in place. Regular Noise Monitoring being carried out and Monitoring reports are attached as <u>Annexure 1c.</u>
v	There will be zero waste water discharge from the plant.	Not applicable as no EC and CTO available for the beneficiation plant.
vi	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Personnel working in dusty areas are provided with nose mask, safety glass and ear plug with proper safety training. Dust Suppression System (Dry fog system) being provided at all appropriate places of mineral handling plants (crusher & screening plant) and other areas. Same are being maintained for proper dust control. Pre-placement medical examination and periodical examination of the workers engaged are being conducted & record maintained.
vii	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Workers engaged in Operations are provided with PPE's. Besides this, acoustic enclosures are provided for all machines operating within the mines. The noise level is being monitored by Noise Level Meter; the results reveal that the parameter is well within the prescribed norms. Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project are being carried periodically and records are maintained. A medical dispensary with full time Doctor has been appointed at mine area for the health check-up of employees and also the locals. Medical health camps will be organized in the nearby villages after the ongoing Covid-19 pandemic over and as per the Guidelines of State Government.
viii	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A dedicated Environment Management Cell under the leadership of AGM Environment has been formed and reporting to Mine Senior Management i.e. Head of Operations (AVP).

ix	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.	We are in process for implementation of various measures undertaken for environment management plan since the operation started in July 2020. Details of environmental management measures expenditure (head wise breakup) was submitted along with last EC compliance report vide letter dated 21.05.2021.
x	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted and will be complied.
xi	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	We will extend full co-operation to the officers of the Regional Office during their visit and furnish the required data, information and monitoring reports.
xii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental 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 Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	Being complied. Last six monthly compliance report along with monitoring data vide letter no JSW/S/O/2021/124 dated 21.05.2021 was submitted to Regional Office, MOEF&CC, Bhubaneswar, Zonal Office, CPCB, Kolkata, MS and RO Offices SPCB, Odisha. EC Compliance report along with monitoring data being uploaded in company website.
xiii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if	Not Applicable

	any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
xiv	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.	Not Applicable
xv	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.	Will be complied within timeline.
xvi	The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.	Not Applicable

JAJANG IRON ORE MINES

AAQ REPORT

APRIL - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Mines Office				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/04/2021	64	23	9.9	11.4	0.55
2	02/04/2021	59	21	10.5	11.9	0.68
3	03/04/2021	67	24	11.2	12.7	0.53
4	04/04/2021	63	23	10.8	12.2	0.59
5	05/04/2021	70	26	10.4	11.7	0.62
6	06/04/2021	61	22	11.6	13.1	0.65
7	07/04/2021	76	28	11.1	12.6	0.54
8	08/04/2021	68	23	12.2	13.8	0.57
9	09/04/2021	73	25	11.3	12.9	0.61
10	10/04/2021	66	23	10.9	12.3	0.67
11	11/04/2021	60	21	11.5	12.8	0.72
12	12/04/2021	69	24	11	12.4	0.53
13	13/04/2021	62	22	11.8	13.2	0.49
14	14/04/2021	58	20	10.6	11.9	0.58
15	15/04/2021	64	23	10.2	11.7	0.64
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- NitrogenDioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location		: Mines Office		
Month		: April-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/04/2021	61	22	11.3	12.9	0.57
17	17/04/2021	58	20	10.9	12.4	0.66
18	18/04/2021	61	22	11.7	13	0.59
19	19/04/2021	69	25	11.4	12.8	0.51
20	20/04/2021	75	28	12.1	13.5	0.49
21	21/04/2021	64	22	11.9	13.3	0.55
22	22/04/2021	61	21	9.5	10.9	0.63
23	23/04/2021	74	27	10.8	12.4	0.52
24	24/04/2021	67	24	11.2	12.8	0.46
25	25/04/2021	61	21	11.6	13.3	0.54
26	26/04/2021	73	27	11.9	13.6	0.63
27	27/04/2021	66	25	11.4	12.7	0.55
28	28/04/2021	53	19	10.5	11.8	0.67
29	29/04/2021	58	20	11	12.3	0.58
30	30/04/2021	61	22	10.2	11.7	0.51
Average		65	23	11.0	12.5	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- NitrogenDioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/04/2021	69	26	12.2	13.8	0.67
2	02/04/2021	62	22	11.8	13.3	0.55
3	03/04/2021	81	31	11.5	12.9	0.79
4	04/04/2021	74	29	11.3	12.6	0.63
5	05/04/2021	69	26	12	13.3	0.71
6	06/04/2021	83	32	11.8	13.5	0.58
7	07/04/2021	72	27	11.4	12.9	0.65
8	08/04/2021	59	21	10.7	12.2	0.59
9	09/04/2021	75	27	12.6	13.9	0.81
10	10/04/2021	63	22	11.5	12.8	0.66
11	11/04/2021	60	21	12.2	13.7	0.56
12	12/04/2021	77	29	11.8	13.3	0.51
13	13/04/2021	69	26	12.3	13.9	0.7
14	14/04/2021	71	28	11.6	12.8	0.62
15	15/04/2021	65	24	11.1	12.5	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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CIN No. : U74210TG1999PTC03235H



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/04/2021	68	26	12.5	13.7	0.67
17	17/04/2021	58	20	13	14.2	0.73
18	18/04/2021	64	23	11.8	13.4	0.48
19	19/04/2021	71	26	10.7	12.3	0.57
20	20/04/2021	62	22	11.3	12.8	0.64
21	21/04/2021	58	20	11.6	13.2	0.73
22	22/04/2021	70	26	12.6	14	0.59
23	23/04/2021	66	23	12.1	13.5	0.65
24	24/04/2021	61	21	10.9	12.5	0.76
25	25/04/2021	70	25	11.5	12.9	0.55
26	26/04/2021	57	20	11	12.4	0.83
27	27/04/2021	78	30	12.1	13.6	0.72
28	28/04/2021	66	23	11.7	13.5	0.61
29	29/04/2021	69	26	11.3	12.9	0.75
30	30/04/2021	62	22	11.9	13.3	0.53
Average		68	25	11.7	13.1	0.64
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd ,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/04/2021	55	19	9.5	11.1	0.44
2	02/04/2021	61	22	10.2	11.7	0.53
3	03/04/2021	57	20	8.9	10.4	0.4
4	04/04/2021	69	24	9.3	10.8	0.37
5	05/04/2021	58	21	9.9	11.3	0.49
6	06/04/2021	62	22	10.4	11.8	0.55
7	07/04/2021	66	24	9.1	10.9	0.41
8	08/04/2021	59	20	10.6	12.2	0.46
9	09/04/2021	53	18	9.7	11.4	0.52
10	10/04/2021	58	20	10.2	11.8	0.61
11	11/04/2021	60	21	10.9	12.3	0.57
12	12/04/2021	66	23	9.8	11.4	0.48
13	13/04/2021	57	19	10.3	11.7	0.42
14	14/04/2021	67	23	8.8	10.3	0.5
15	15/04/2021	63	22	9.5	10.9	0.56
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/04/2021	51	18	9.2	10.6	0.43
17	17/04/2021	55	19	10.4	11.7	0.39
18	18/04/2021	64	22	10.1	11.5	0.53
19	19/04/2021	62	21	10.8	12.2	0.47
20	20/04/2021	56	18	11.3	12.9	0.6
21	21/04/2021	64	23	10.6	11.9	0.55
22	22/04/2021	68	25	10	11.5	0.46
23	23/04/2021	60	21	9.8	11.3	0.52
24	24/04/2021	65	23	9.3	10.7	0.35
25	25/04/2021	61	21	10.2	11.8	0.59
26	26/04/2021	68	24	10.9	12.3	0.51
27	27/04/2021	60	21	11.1	12.6	0.48
28	28/04/2021	63	22	10.5	11.8	0.63
29	29/04/2021	60	20	9.9	11.4	0.58
30	30/04/2021	57	18	10.4	12.1	0.52
Average		61	21	10.0	11.5	0.49
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide


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*Complaints Register is available at Laboratory

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 CIN No. : U74210TG*999PTC032358



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Work Shop Area				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/04/2021	71	26	11.4	12.9	0.65
2	02/04/2021	65	23	11.9	13.3	0.54
3	03/04/2021	76	29	12.3	13.9	0.69
4	04/04/2021	62	22	11.6	12.9	0.74
5	05/04/2021	65	23	11	12.5	0.66
6	06/04/2021	59	21	11.5	12.8	0.63
7	07/04/2021	72	28	10.9	12.3	0.55
8	08/04/2021	68	25	10.2	11.7	0.48
9	09/04/2021	61	21	12.1	13.5	0.57
10	10/04/2021	59	20	11.7	13.2	0.51
11	11/04/2021	54	19	11.9	13.6	0.62
12	12/04/2021	69	27	12.4	13.8	0.66
13	13/04/2021	71	29	11.4	12.9	0.79
14	14/04/2021	77	31	11.6	13.3	0.55
15	15/04/2021	63	23	12.2	13.7	0.67
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location		: Work Shop Area		
Month		: April-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/04/2021	57	24	12.5	13.9	0.72
17	17/04/2021	72	26	11.1	12.5	0.58
18	18/04/2021	65	24	12.2	13.8	0.47
19	19/04/2021	62	22	13	14.4	0.53
20	20/04/2021	75	28	12.8	14.2	0.6
21	21/04/2021	66	24	12.5	13.9	0.75
22	22/04/2021	63	22	12.1	13.6	0.64
23	23/04/2021	79	30	11.6	12.9	0.59
24	24/04/2021	69	26	12.3	13.8	0.55
25	25/04/2021	73	27	11.2	12.7	0.61
26	26/04/2021	64	22	11.5	12.9	0.73
27	27/04/2021	62	21	10.9	12.3	0.52
28	28/04/2021	70	26	11.3	12.8	0.69
29	29/04/2021	66	23	12.4	13.7	0.77
30	30/04/2021	58	20	11.8	13.5	0.62
Average		67	24	11.7	13.2	0.62
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Jajang Village				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/04/2021	66	23	11.1	12.8	0.49
2	06/04/2021	59	20	11.7	13.3	0.56
3	12/04/2021	53	19	11.3	12.6	0.66
4	13/04/2021	62	23	10.9	12.5	0.44
5	19/04/2021	55	19	11.5	12.9	0.58
6	20/04/2021	69	25	11.2	12.6	0.71
7	26/04/2021	66	23	10.4	11.8	0.62
8	27/04/2021	60	21	10.8	12.2	0.51
Average		61	22	11.1	12.5	0.57
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide


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 CIN No. : U74210TG 999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Jeribahal Village				
Month : April-2021				
Sample Collected by: B.S. Envi Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/04/2021	69	25	11.5	13.1	0.57
2	06/04/2021	61	22	10.7	12.4	0.73
3	12/04/2021	65	23	11	12.6	0.51
4	13/04/2021	59	20	11.3	12.9	0.65
5	19/04/2021	63	22	10.9	12.4	0.58
6	20/04/2021	66	24	11.8	13.3	0.63
7	26/04/2021	70	26	12.1	13.7	0.5
8	27/04/2021	62	22	11.2	12.6	0.66
Average		64	23	11.3	12.8	0.60
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location : Badhuabeda Village				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/04/2021	63	21	10.3	11.8	0.51
2	06/04/2021	57	19	10.8	12.4	0.62
3	12/04/2021	61	21	11.1	12.6	0.49
4	13/04/2021	64	23	10.4	11.8	0.44
5	19/04/2021	59	21	10.7	12.2	0.4
6	20/04/2021	62	22	11.5	12.9	0.53
7	26/04/2021	59	20	11.2	12.7	0.42
8	27/04/2021	55	19	10.9	12.3	0.55
Average		60	21	10.8	12.3	0.49
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Ambient Air Quality				
Location		: Kamalpur Village		
Month		: April-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/04/2021	51	17	8.8	10.5	0.33
2	06/04/2021	55	19	9.2	10.7	0.4
3	12/04/2021	61	21	7.9	9.4	0.29
4	13/04/2021	52	18	9.5	10.8	0.37
5	19/04/2021	50	17	9	10.3	0.26
6	20/04/2021	59	21	8.3	9.6	0.31
7	26/04/2021	54	18	8.6	10	0.24
8	27/04/2021	58	20	9.1	10.5	0.35
Average		55	19	8.8	10.2	0.31
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


Authorized Signatory



*Complaints Register is available at Laboratory

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 CIN No. : U74210TG1999PTC032358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

APRIL - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location		: Crusher Plant		
Month		: April-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/04/2021	675	1200 ($\mu\text{g}/\text{m}^3$)
2	02/04/2021	722	
3	03/04/2021	597	
4	04/04/2021	582	
5	05/04/2021	697	
6	06/04/2021	737	
7	07/04/2021	590	
8	08/04/2021	683	
9	09/04/2021	751	
10	10/04/2021	823	
11	11/04/2021	716	
12	12/04/2021	584	
13	13/04/2021	598	
14	14/04/2021	663	
15	15/04/2021	650	
16	16/04/2021	580	
17	17/04/2021	725	
18	18/04/2021	663	
19	19/04/2021	650	
20	20/04/2021	750	
21	21/04/2021	711	
22	22/04/2021	597	
23	23/04/2021	813	
24	24/04/2021	770	
25	25/04/2021	681	
26	26/04/2021	592	
27	27/04/2021	763	
28	28/04/2021	749	
29	29/04/2021	814	
30	30/04/2021	782	
Average		690	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Working Pit Block-B				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/04/2021	825	1200 [$\mu\text{g}/\text{m}^3$]
2	02/04/2021	750	
3	03/04/2021	696	
4	04/04/2021	750	
5	05/04/2021	810	
6	06/04/2021	722	
7	07/04/2021	674	
8	08/04/2021	831	
9	09/04/2021	765	
10	10/04/2021	725	
11	11/04/2021	831	
12	12/04/2021	650	
13	13/04/2021	794	
14	14/04/2021	832	
15	15/04/2021	722	
16	16/04/2021	690	
17	17/04/2021	664	
18	18/04/2021	780	
19	19/04/2021	839	
20	20/04/2021	794	
21	21/04/2021	745	
22	22/04/2021	682	
23	23/04/2021	633	
24	24/04/2021	812	
25	25/04/2021	825	
26	26/04/2021	679	
27	27/04/2021	729	
28	28/04/2021	713	
29	29/04/2021	685	
30	30/04/2021	820	
Average		749	

Legend:SPM-Suspended Particulate Matter


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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location		: Loading Area Block B		
Month		: April-2021		
Sample Collected by: B.S. Envi Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/04/2021	550	1200 [$\mu\text{g}/\text{m}^3$]
2	02/04/2021	681	
3	03/04/2021	636	
4	04/04/2021	388	
5	05/04/2021	719	
6	06/04/2021	684	
7	07/04/2021	794	
8	08/04/2021	539	
9	09/04/2021	684	
10	10/04/2021	582	
11	11/04/2021	795	
12	12/04/2021	712	
13	13/04/2021	541	
14	14/04/2021	590	
15	15/04/2021	580	
16	16/04/2021	793	
17	17/04/2021	713	
18	18/04/2021	550	
19	19/04/2021	627	
20	20/04/2021	582	
21	21/04/2021	688	
22	22/04/2021	749	
23	23/04/2021	717	
24	24/04/2021	590	
25	25/04/2021	693	
26	26/04/2021	784	
27	27/04/2021	527	
28	28/04/2021	647	
29	29/04/2021	673	
30	30/04/2021	584	
Average		653	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Haul Road CB Block				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/04/2021	831	1200 [$\mu\text{g}/\text{m}^3$]
2	02/04/2021	765	
3	03/04/2021	673	
4	04/04/2021	587	
5	05/04/2021	818	
6	06/04/2021	557	
7	07/04/2021	683	
8	08/04/2021	770	
9	09/04/2021	594	
10	10/04/2021	811	
11	11/04/2021	595	
12	12/04/2021	629	
13	13/04/2021	687	
14	14/04/2021	794	
15	15/04/2021	813	
16	16/04/2021	650	
17	17/04/2021	590	
18	18/04/2021	772	
19	19/04/2021	585	
20	20/04/2021	675	
21	21/04/2021	724	
22	22/04/2021	812	
23	23/04/2021	580	
24	24/04/2021	735	
25	25/04/2021	718	
26	26/04/2021	660	
27	27/04/2021	592	
28	28/04/2021	680	
29	29/04/2021	815	
30	30/04/2021	650	
Average		695	

Legend:SPM-Suspended Particulate Matter


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B.S. ENVI-TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Screen Plant				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/04/2021	847	1200 [$\mu\text{g}/\text{m}^3$]
2	02/04/2021	826	
3	03/04/2021	879	
4	04/04/2021	649	
5	05/04/2021	783	
6	06/04/2021	717	
7	07/04/2021	795	
8	08/04/2021	862	
9	09/04/2021	698	
10	10/04/2021	793	
11	11/04/2021	855	
12	12/04/2021	813	
13	13/04/2021	641	
14	14/04/2021	680	
15	15/04/2021	794	
16	16/04/2021	857	
17	17/04/2021	863	
18	18/04/2021	717	
19	19/04/2021	690	
20	20/04/2021	874	
21	21/04/2021	679	
22	22/04/2021	783	
23	23/04/2021	814	
24	24/04/2021	695	
25	25/04/2021	794	
26	26/04/2021	710	
27	27/04/2021	630	
28	28/04/2021	843	
29	29/04/2021	872	
30	30/04/2021	675	
Average		771	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04				Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	
Sample Description: Fugitive Dust Monitoring				
Location : OB Dump-4				
Month : April-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/04/2021	512	1200 [$\mu\text{g}/\text{m}^3$]
2	02/04/2021	581	
3	03/04/2021	645	
4	04/04/2021	520	
5	05/04/2021	683	
6	06/04/2021	650	
7	07/04/2021	580	
8	08/04/2021	545	
9	09/04/2021	663	
10	10/04/2021	675	
11	11/04/2021	592	
12	12/04/2021	580	
13	13/04/2021	590	
14	14/04/2021	638	
15	15/04/2021	585	
16	16/04/2021	663	
17	17/04/2021	597	
18	18/04/2021	557	
19	19/04/2021	633	
20	20/04/2021	579	
21	21/04/2021	641	
22	22/04/2021	760	
23	23/04/2021	748	
24	24/04/2021	580	
25	25/04/2021	684	
26	26/04/2021	582	
27	27/04/2021	595	
28	28/04/2021	684	
29	29/04/2021	663	
30	30/04/2021	578	
Average		619	

Legend:SPM-Suspended Particulate Matter

 **Authorized Signatory**

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JAJANG IRON ORE MINES

AAQ REPORT

MAY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Mines Office				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/05/2021	68	25	10.1	11.7	0.61
2	02/05/2021	71	27	10.9	12.3	0.72
3	03/05/2021	64	23	11.1	12.6	0.59
4	04/05/2021	59	21	10.2	11.6	0.66
5	05/05/2021	66	24	9.6	11	0.52
6	06/05/2021	57	20	10.7	12.1	0.55
7	07/05/2021	63	22	9.9	11.4	0.64
8	08/05/2021	69	26	10.2	11.6	0.69
9	09/05/2021	62	21	9.3	10.8	0.41
10	10/05/2021	58	20	10.6	12.4	0.57
11	11/05/2021	60	21	11.3	12.9	0.52
12	12/05/2021	66	25	9.8	11.5	0.63
13	13/05/2021	59	20	10.5	11.9	0.69
14	14/05/2021	55	18	11.9	13.2	0.51
15	15/05/2021	68	24	10.7	12.2	0.54
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- NitrogenDioxide
 CO-Carbon Monoxide


Authorized Signatory


*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Mines Office				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/05/2021	63	23	11.4	12.8	0.65
17	17/05/2021	61	21	10.2	11.8	0.58
18	18/05/2021	73	28	9.9	11.4	0.49
19	19/05/2021	65	23	10.8	12.4	0.53
20	20/05/2021	57	20	11.5	12.9	0.66
21	21/05/2021	63	22	10.3	11.6	0.47
22	22/05/2021	70	26	9.5	10.8	0.71
23	23/05/2021	61	21	10.1	11.6	0.54
24	24/05/2021	74	28	10.6	12.2	0.62
25	25/05/2021	65	23	11.4	12.7	0.5
26	26/05/2021	67	24	10.8	12.3	0.72
27	27/05/2021	42	14	11.2	12.6	0.68
28	28/05/2021	45	15	10.9	12.5	0.56
29	29/05/2021	50	17	10.4	11.7	0.63
30	30/05/2021	54	19	9.6	11.4	0.54
31	31/05/2021	58	20	10.8	12.5	0.49
Average		62	22	10.5	12.0	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- NitrogenDioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/05/2021	74	28	11.3	12.7	0.64
2	02/05/2021	69	24	12.1	13.8	0.52
3	03/05/2021	58	20	11.6	13.2	0.69
4	04/05/2021	61	22	10.9	12.3	0.56
5	05/05/2021	66	24	11.1	12.8	0.61
6	06/05/2021	70	26	10.5	11.9	0.72
7	07/05/2021	56	19	11.4	12.7	0.65
8	08/05/2021	65	23	11.8	13.3	0.53
9	09/05/2021	61	21	12.2	13.7	0.66
10	10/05/2021	58	20	10.5	12.2	0.48
11	11/05/2021	67	25	9.9	11.6	0.57
12	12/05/2021	72	27	10.8	12.4	0.65
13	13/05/2021	60	21	11.2	12.9	0.58
14	14/05/2021	77	30	12.4	13.7	0.49
15	15/05/2021	69	25	11.7	13.2	0.44
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Lab.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/05/2021	64	23	11.9	13.5	0.67
17	17/05/2021	59	21	12.3	13.8	0.63
18	18/05/2021	61	22	11.4	12.9	0.59
19	19/05/2021	56	19	10.5	11.6	0.61
20	20/05/2021	67	24	9.9	11.4	0.72
21	21/05/2021	64	23	11.5	13.1	0.68
22	22/05/2021	71	28	11.2	12.8	0.57
23	23/05/2021	75	29	10.7	12.2	0.63
24	24/05/2021	68	25	11	12.6	0.73
25	25/05/2021	60	21	12.3	13.8	0.69
26	26/05/2021	64	23	11.6	13.1	0.55
27	27/05/2021	47	16	10.9	12.4	0.6
28	28/05/2021	49	17	11.2	12.8	0.53
29	29/05/2021	54	19	10.6	11.9	0.62
30	30/05/2021	59	21	11	12.4	0.58
31	31/05/2021	62	22	10.4	11.7	0.77
Average		63	23	11.2	12.7	0.61
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jayang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/05/2021	60	20	8.9	10.4	0.41
2	02/05/2021	53	18	9.3	10.9	0.33
3	03/05/2021	64	22	8.7	10.5	0.52
4	04/05/2021	61	21	9.6	11.1	0.46
5	05/05/2021	58	20	10.1	11.5	0.55
6	06/05/2021	62	23	9.9	11.7	0.49
7	07/05/2021	55	19	10.4	11.8	0.38
8	08/05/2021	56	24	9.2	10.6	0.44
9	09/05/2021	54	18	8.5	9.9	0.53
10	10/05/2021	52	17	9.8	11.4	0.59
11	11/05/2021	63	23	10.3	11.8	0.47
12	12/05/2021	59	21	10.8	12.2	0.4
13	13/05/2021	68	25	11.1	12.6	0.44
14	14/05/2021	54	18	9.5	10.9	0.36
15	15/05/2021	61	21	10.7	12.4	0.41
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/05/2021	51	19	11	12.4	0.41
17	17/05/2021	64	24	10.1	12.6	0.54
18	18/05/2021	70	26	9.9	11.5	0.48
19	19/05/2021	61	21	9.5	11.7	0.39
20	20/05/2021	57	19	10.6	10.8	0.55
21	21/05/2021	66	23	11.3	12.1	0.62
22	22/05/2021	55	19	10.3	12.8	0.56
23	23/05/2021	65	25	9.4	11.6	0.65
24	24/05/2021	59	20	8.8	10.8	0.43
25	25/05/2021	51	17	9.1	10.4	0.31
26	26/05/2021	58	20	10.4	10.7	0.37
27	27/05/2021	40	13	10.9	11.9	0.45
28	28/05/2021	44	15	11.2	12.3	0.33
29	29/05/2021	51	17	9.2	12.8	0.42
30	30/05/2021	54	18	10.6	10.6	0.5
31	31/05/2021	57	20	10	12.2	0.57
Average		58	20	9.9	11.4	0.46
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

* Complaints Register is available at

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Website : www.bsenvitech.com
CIN No. : U17421H1G1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Work Shop Area				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/05/2021	66	26	10.8	12.5	0.62
2	02/05/2021	58	22	11.5	12.9	0.76
3	03/05/2021	61	24	11.2	12.7	0.65
4	04/05/2021	70	27	10.6	11.9	0.58
5	05/05/2021	58	21	11.3	12.7	0.61
6	06/05/2021	64	23	11.9	13.3	0.57
7	07/05/2021	55	20	10.4	11.6	0.69
8	08/05/2021	68	26	10.7	12.2	0.53
9	09/05/2021	71	28	11.1	12.6	0.72
10	10/05/2021	63	22	11.5	12.9	0.55
11	11/05/2021	69	27	12.1	13.7	0.64
12	12/05/2021	74	30	11.6	13.3	0.57
13	13/05/2021	59	22	10.7	12.2	0.63
14	14/05/2021	72	28	11.8	13.5	0.66
15	15/05/2021	66	25	12.7	14.2	0.71
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Work Shop Area				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/05/2021	77	31	11.5	12.9	0.58
17	17/05/2021	60	22	12.1	13.7	0.52
18	18/05/2021	57	20	13.2	14.4	0.69
19	19/05/2021	68	26	11.4	12.9	0.77
20	20/05/2021	64	23	12.3	13.8	0.73
21	21/05/2021	59	21	11.1	12.4	0.61
22	22/05/2021	62	24	11.6	13	0.69
23	23/05/2021	74	29	12	13.4	0.65
24	24/05/2021	58	20	11.3	12.7	0.74
25	25/05/2021	61	22	10.7	12.2	0.54
26	26/05/2021	69	26	11.2	12.8	0.66
27	27/05/2021	45	16	10.5	11.9	0.61
28	28/05/2021	48	17	11.9	13.4	0.56
29	29/05/2021	56	19	12.1	13.5	0.68
30	30/05/2021	59	21	11.4	12.8	0.7
31	31/05/2021	61	23	11.7	13.2	0.55
Average		63	24	11.4	12.9	0.63
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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 CIN No. : J74210TG1989PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Jajang Village				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/05/2021	61	22	10.8	12.5	0.58
2	04/05/2021	66	25	11.5	12.9	0.62
3	10/05/2021	57	20	10.6	11.8	0.51
4	11/05/2021	69	26	11.9	13.3	0.56
5	17/05/2021	53	18	11.4	12.7	0.63
6	18/05/2021	59	21	10.3	11.8	0.49
7	24/05/2021	64	23	11.1	12.5	0.55
8	25/05/2021	56	19	11.9	13.3	0.65
Average		61	22	11.1	12.6	0.57
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


Authorized Signatory



*Complaints Register is available at Laboratory

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 Website : www.bsenvitech.com
 CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Jaribahal Village				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/05/2021	63	23	11	12.5	0.61
2	04/05/2021	56	19	11.7	13.3	0.54
3	10/05/2021	69	27	10.3	11.9	0.68
4	11/05/2021	61	22	10.9	12.4	0.59
5	17/05/2021	59	20	11.2	12.6	0.52
6	18/05/2021	64	24	12	13.4	0.65
7	24/05/2021	66	26	11.6	12.9	0.57
8	25/05/2021	59	21	10.5	11.8	0.7
Average		62	23	11.1	12.6	0.60
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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Website : www.bsenvitech.com
CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location : Badhuabeda Village				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/05/2021	63	23	9.9	11.4	0.67
2	04/05/2021	59	21	10.5	12.1	0.55
3	10/05/2021	65	25	9.6	10.9	0.43
4	11/05/2021	57	19	10.1	11.6	0.51
5	17/05/2021	53	18	10.3	11.7	0.62
6	18/05/2021	61	21	10.8	12.3	0.56
7	24/05/2021	66	26	9.1	10.8	0.48
8	25/05/2021	57	20	10.9	12.4	0.5
Average		60	22	10.1	11.6	0.54
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
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 CIN No. : U74210TG1999PTC032356



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Ambient Air Quality				
Location		: Kamalpur Village		
Month		: May-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	03/05/2021	53	18	7.7	9.2	0.31
2	04/05/2021	57	20	8.2	9.9	0.26
3	10/05/2021	49	16	7.9	9.3	0.33
4	11/05/2021	58	20	8.4	9.9	0.41
5	17/05/2021	52	18	9.1	10.4	0.35
6	18/05/2021	60	21	8.8	10.6	0.29
7	24/05/2021	55	19	8.1	9.6	0.32
8	25/05/2021	51	17	9.3	10.7	0.39
Average		54	19	8.4	9.9	0.33
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


 Authorized Signatory


*Complaints Register is available at Laboratory

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 Website : www.bsenvitech.com
 CIN No. : U74210TG1999PTC032358

JAJANG IRON ORE MINES

MINERALOGICAL COMPOSITION REPORT

MAY – 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : May
Date : 21.05.2021
Location : Entry & Exit Gate (Gate No-06)

Mineralogical composition of PM₁₀

Constituent	Unit	Concentration (%)
Silica as SiO ₂	% by mass	23.12
Calcium as CaO		0.56
Magnesium as MgO		1.08
Alumina as Al ₂ O ₃		17.52
Iron as Fe ₂ O ₃		41.26
Loss of Ignition		8.4

For B.S Envi-Tech (P) Ltd.,



Authorised Signatory

*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

MAY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Crusher Plant				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/05/2021	847	1200 ($\mu\text{g}/\text{m}^3$)
2	02/05/2021	771	
3	03/05/2021	777	
4	04/05/2021	814	
5	05/05/2021	752	
6	06/05/2021	585	
7	07/05/2021	600	
8	08/05/2021	682	
9	09/05/2021	780	
10	10/05/2021	827	
11	11/05/2021	825	
12	12/05/2021	765	
13	13/05/2021	664	
14	14/05/2021	595	
15	15/05/2021	822	
16	16/05/2021	695	
17	17/05/2021	764	
18	18/05/2021	799	
19	19/05/2021	514	
20	20/05/2021	650	
21	21/05/2021	668	
22	22/05/2021	944	
23	23/05/2021	860	
24	24/05/2021	843	
25	25/05/2021	913	
26	26/05/2021	444	
27	27/05/2021	470	
28	28/05/2021	491	
29	29/05/2021	523	
30	30/05/2021	545	
31	31/05/2021	599	
Average		704	

Legend:SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
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CIN No. : U74210TG1999PTCC32358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Working Pit. Block-B				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/05/2021	726	1200 [$\mu\text{g}/\text{m}^3$]
2	02/05/2021	827	
3	03/05/2021	912	
4	04/05/2021	585	
5	05/05/2021	698	
6	06/05/2021	856	
7	07/05/2021	755	
8	08/05/2021	696	
9	09/05/2021	772	
10	10/05/2021	794	
11	11/05/2021	822	
12	12/05/2021	962	
13	13/05/2021	977	
14	14/05/2021	679	
15	15/05/2021	597	
16	16/05/2021	822	
17	17/05/2021	726	
18	18/05/2021	749	
19	19/05/2021	560	
20	20/05/2021	647	
21	21/05/2021	795	
22	22/05/2021	692	
23	23/05/2021	715	
24	24/05/2021	820	
25	25/05/2021	746	
26	26/05/2021	506	
27	27/05/2021	491	
28	28/05/2021	532	
29	29/05/2021	548	
30	30/05/2021	580	
31	31/05/2021	612	
Average		716	

Legend:SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Loading Area Block B				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/05/2021	795	1200 [$\mu\text{g}/\text{m}^3$]
2	02/05/2021	613	
3	03/05/2021	573	
4	04/05/2021	585	
5	05/05/2021	696	
6	06/05/2021	739	
7	07/05/2021	813	
8	08/05/2021	580	
9	09/05/2021	748	
10	10/05/2021	549	
11	11/05/2021	718	
12	12/05/2021	728	
13	13/05/2021	765	
14	14/05/2021	800	
15	15/05/2021	803	
16	16/05/2021	901	
17	17/05/2021	649	
18	18/05/2021	815	
19	19/05/2021	750	
20	20/05/2021	711	
21	21/05/2021	644	
22	22/05/2021	682	
23	23/05/2021	819	
24	24/05/2021	585	
25	25/05/2021	894	
26	26/05/2021	467	
27	27/05/2021	505	
28	28/05/2021	526	
29	29/05/2021	571	
30	30/05/2021	616	
31	31/05/2021	644	
Average		687	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory

*Complaints Register is available at Laboratory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Haul Road CB Block				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/05/2021	749	1200 ($\mu\text{g}/\text{m}^3$)
2	02/05/2021	581	
3	03/05/2021	795	
4	04/05/2021	823	
5	05/05/2021	810	
6	06/05/2021	947	
7	07/05/2021	913	
8	08/05/2021	747	
9	09/05/2021	771	
10	10/05/2021	825	
11	11/05/2021	675	
12	12/05/2021	792	
13	13/05/2021	815	
14	14/05/2021	737	
15	15/05/2021	773	
16	16/05/2021	865	
17	17/05/2021	882	
18	18/05/2021	715	
19	19/05/2021	765	
20	20/05/2021	597	
21	21/05/2021	682	
22	22/05/2021	814	
23	23/05/2021	750	
24	24/05/2021	712	
25	25/05/2021	746	
26	26/05/2021	459	
27	27/05/2021	467	
28	28/05/2021	488	
29	29/05/2021	502	
30	30/05/2021	539	
31	31/05/2021	644	
Average		722	

Legend: SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints/Registrations available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : Screen Plant				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/05/2021	913	1200 [$\mu\text{g}/\text{m}^3$]
2	02/05/2021	948	
3	03/05/2021	898	
4	04/05/2021	857	
5	05/05/2021	676	
6	06/05/2021	794	
7	07/05/2021	689	
8	08/05/2021	839	
9	09/05/2021	913	
10	10/05/2021	766	
11	11/05/2021	945	
12	12/05/2021	902	
13	13/05/2021	748	
14	14/05/2021	681	
15	15/05/2021	693	
16	16/05/2021	676	
17	17/05/2021	816	
18	18/05/2021	799	
19	19/05/2021	830	
20	20/05/2021	931	
21	21/05/2021	976	
22	22/05/2021	812	
23	23/05/2021	715	
24	24/05/2021	643	
25	25/05/2021	668	
26	26/05/2021	485	
27	27/05/2021	511	
28	28/05/2021	536	
29	29/05/2021	561	
30	30/05/2021	578	
31	31/05/2021	602	
Average		755	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory



*Complaints Register is available at: Laboratory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	
Sample Description: Fugitive Dust Monitoring				
Location : OB Dump-4				
Month : May-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/05/2021	746	1200 [$\mu\text{g}/\text{m}^3$]
2	02/05/2021	523	
3	03/05/2021	597	
4	04/05/2021	747	
5	05/05/2021	882	
6	06/05/2021	472	
7	07/05/2021	726	
8	08/05/2021	513	
9	09/05/2021	765	
10	10/05/2021	484	
11	11/05/2021	493	
12	12/05/2021	320	
13	13/05/2021	678	
14	14/05/2021	702	
15	15/05/2021	646	
16	16/05/2021	633	
17	17/05/2021	497	
18	18/05/2021	571	
19	19/05/2021	694	
20	20/05/2021	582	
21	21/05/2021	650	
22	22/05/2021	792	
23	23/05/2021	802	
24	24/05/2021	496	
25	25/05/2021	715	
26	26/05/2021	404	
27	27/05/2021	429	
28	28/05/2021	451	
29	29/05/2021	488	
30	30/05/2021	505	
31	31/05/2021	526	
Average		604	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory



Complaints Register is available at Lab only

JAJANG IRON ORE MINES

AAQ REPORT

JUNE - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Mines Office				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EJ 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/06/2021	54	23	9.6	10.9	0.54
2	02/06/2021	59	21	10.1	11.8	0.62
3	03/06/2021	70	26	8.9	10.5	0.47
4	04/06/2021	57	20	9.9	11.3	0.41
5	05/06/2021	61	22	10.3	11.8	0.35
6	06/06/2021	66	25	9.5	10.9	0.53
7	07/06/2021	54	19	10	11.6	0.69
8	08/06/2021	51	18	10.7	12.1	0.56
9	09/06/2021	57	21	11.1	12.7	0.48
10	10/06/2021	49	17	8.8	10.4	0.51
11	11/06/2021	46	16	9.3	10.8	0.63
12	12/06/2021	42	15	8.5	9.9	0.49
13	13/06/2021	40	14	9.6	11.1	0.42
14	14/06/2021	48	18	10.2	11.7	0.55
15	15/06/2021	45	16	10.6	12.1	0.39
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- NitrogenDioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Mines Office				
Month : June-2021				
Sample Collected by: B.S. Envi Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/06/2021	49	17	9.9	11.3	0.44
17	17/06/2021	54	20	10.8	12.4	0.54
18	18/06/2021	60	22	11.1	12.7	0.6
19	19/06/2021	51	18	10.4	11.9	0.57
20	20/06/2021	55	19	10.9	12.3	0.62
21	21/06/2021	61	23	11.5	12.9	0.59
22	22/06/2021	52	18	10.3	11.7	0.65
23	23/06/2021	49	17	11.2	12.6	0.51
24	24/06/2021	56	20	9.5	10.9	0.46
25	25/06/2021	60	22	9.9	11.3	0.4
26	26/06/2021	66	24	10.4	11.8	0.69
27	27/06/2021	63	23	11.5	13	0.48
28	28/06/2021	59	21	10.7	12.3	0.41
29	29/06/2021	57	22	10.1	11.8	0.57
30	30/06/2021	55	21	10.8	12.3	0.44
Average		55	20	10.2	11.6	0.52
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- NitrogenDioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/06/2021	67	25	10.8	12.4	0.55
2	02/06/2021	64	23	11.5	12.9	0.64
3	03/06/2021	72	27	11.9	13.5	0.73
4	04/06/2021	60	22	10.2	11.7	0.59
5	05/06/2021	66	25	12.1	13.6	0.52
6	06/06/2021	62	22	10.7	12.4	0.67
7	07/06/2021	58	20	11.6	13.1	0.56
8	08/06/2021	55	19	11.4	12.9	0.61
9	09/06/2021	61	23	12.5	13.8	0.49
10	10/06/2021	53	19	10.8	12.3	0.58
11	11/06/2021	50	18	11.3	12.7	0.66
12	12/06/2021	46	17	10.4	11.9	0.73
13	13/06/2021	43	15	11.7	13	0.51
14	14/06/2021	51	18	12.2	13.6	0.63
15	15/06/2021	42	15	11.4	12.9	0.45
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Entry & Exit Gate				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/06/2021	52	19	10.9	12.3	0.69
17	17/06/2021	58	22	11.1	12.7	0.74
18	18/06/2021	64	25	11.3	12.9	0.62
19	19/06/2021	55	20	10.7	12.2	0.56
20	20/06/2021	59	22	10.4	11.8	0.79
21	21/06/2021	61	24	11.2	12.9	0.83
22	22/06/2021	49	18	12.1	13.7	0.71
23	23/06/2021	45	16	12.5	14.1	0.65
24	24/06/2021	51	19	11.8	13.3	0.58
25	25/06/2021	63	23	11.3	12.6	0.77
26	26/06/2021	68	25	10.6	11.9	0.68
27	27/06/2021	58	21	12.2	13.8	0.59
28	28/06/2021	62	22	12.5	14.2	0.62
29	29/06/2021	60	21	11.9	13.4	0.7
30	30/06/2021	58	20	12.1	13.7	0.68
Average		57	21	11.4	12.9	0.63
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Envirotech APM-460BL & Envirotech APM 550			
Serial no	2852-DTC-15 & 1102-DTC-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/06/2021	55	20	9.7	11.4	0.54
2	02/06/2021	53	19	9.1	10.6	0.43
3	03/06/2021	60	22	9.5	10.9	0.49
4	04/06/2021	54	19	8.9	10.3	0.38
5	05/06/2021	49	17	10.4	11.9	0.31
6	06/06/2021	51	18	9.3	10.8	0.51
7	07/06/2021	56	20	10	11.5	0.47
8	08/06/2021	61	22	9.6	10.9	0.57
9	09/06/2021	53	19	8.8	10.3	0.44
10	10/06/2021	50	17	10.1	11.7	0.4
11	11/06/2021	54	20	9.2	10.9	0.37
12	12/06/2021	56	22	9.8	11.4	0.46
13	13/06/2021	52	19	10.3	11.9	0.5
14	14/06/2021	49	18	9.9	11.5	0.39
15	15/06/2021	45	16	10.6	11.8	0.43
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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CIN No. : U74210TG1994PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Residential Colony				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Envirotech APM-460BL & Envirotech APM 550			
Serial no	2852 DTC 15 & 1102 DTC-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/06/2021	47	17	9.4	10.8	0.41
17	17/06/2021	43	15	10.8	12.4	0.55
18	18/06/2021	51	19	11.2	12.9	0.59
19	19/06/2021	55	22	10.3	11.8	0.48
20	20/06/2021	60	23	8.7	10.3	0.42
21	21/06/2021	53	19	9	10.5	0.54
22	22/06/2021	49	18	9.5	10.9	0.46
23	23/06/2021	42	14	10.1	11.6	0.44
24	24/06/2021	56	20	9.6	11	0.51
25	25/06/2021	59	23	10.3	11.9	0.35
26	26/06/2021	53	18	10.8	12.4	0.39
27	27/06/2021	48	17	11	12.6	0.42
28	28/06/2021	57	22	9.3	10.9	0.36
29	29/06/2021	52	19	10.2	11.7	0.47
30	30/06/2021	60	23	8.5	10	0.4
Average		53	19	9.7	11.3	0.44
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Work Shop Area				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/06/2021	61	23	11.1	12.9	0.58
2	02/06/2021	59	21	11.7	13.3	0.62
3	03/06/2021	66	25	12.2	13.8	0.73
4	04/06/2021	64	24	11.5	12.9	0.54
5	05/06/2021	71	27	12.4	14	0.69
6	06/06/2021	68	26	11.8	13.2	0.55
7	07/06/2021	63	24	12.1	13.6	0.63
8	08/06/2021	59	22	10.9	12.4	0.71
9	09/06/2021	65	25	11.3	12.8	0.57
10	10/06/2021	55	20	11.6	13.4	0.52
11	11/06/2021	53	19	11.4	12.9	0.67
12	12/06/2021	48	17	10.8	12.2	0.54
13	13/06/2021	51	19	10.2	11.7	0.61
14	14/06/2021	55	20	10.7	12.4	0.72
15	15/06/2021	46	16	11	12.7	0.67
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

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 CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Work Shop Area				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/06/2021	44	14	11.6	13	0.55
17	17/06/2021	51	18	11.3	12.9	0.64
18	18/06/2021	61	22	11.9	13.5	0.81
19	19/06/2021	53	18	12.1	13.8	0.59
20	20/06/2021	63	23	11.5	12.9	0.75
21	21/06/2021	61	22	10.8	12.1	0.68
22	22/06/2021	52	19	11.9	13.3	0.61
23	23/06/2021	43	14	12.3	13.8	0.56
24	24/06/2021	49	16	12.8	14.4	0.48
25	25/06/2021	58	22	11.2	12.6	0.63
26	26/06/2021	60	23	11.8	13.3	0.72
27	27/06/2021	53	20	12.1	13.7	0.45
28	28/06/2021	65	25	11.1	12.6	0.5
29	29/06/2021	57	21	11.7	13.2	0.7
30	30/06/2021	55	20	10.9	12.4	0.64
Average		57	21	11.5	13.0	0.62
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Jajang Village				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	30-L-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	07/06/2021	59	23	11.4	12.9	0.66
2	08/06/2021	64	24	10.9	12.3	0.57
3	14/06/2021	49	17	11.8	13.4	0.49
4	15/06/2021	45	15	11.1	12.6	0.64
5	21/06/2021	56	19	10.6	11.9	0.53
6	22/06/2021	60	21	9.9	11.4	0.69
7	28/06/2021	57	20	10.8	12.5	0.52
8	29/06/2021	61	23	11.7	13	0.58
Average		56	20	11.0	12.5	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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CIN No. U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Jaribahal Village				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	07/06/2021	66	24	11.5	12.9	0.59
2	08/06/2021	60	22	12.2	13.8	0.66
3	14/06/2021	51	19	10.8	12.4	0.73
4	15/06/2021	47	17	11.1	12.9	0.77
5	21/06/2021	56	20	10.6	12.4	0.62
6	22/06/2021	62	23	12.5	13.9	0.54
7	28/06/2021	63	25	11.9	13.4	0.68
8	29/06/2021	59	22	12.1	13.7	0.61
Average		58	22	11.5	13.1	0.65
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Badhuabeda Village				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/El 142 & Envirotech APM 550			
Serial no	30-L-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	07/06/2021	55	20	10.7	12.2	0.59
2	08/06/2021	60	22	10.2	11.8	0.63
3	14/06/2021	46	16	9.9	11.3	0.47
4	15/06/2021	43	15	9.5	10.9	0.55
5	21/06/2021	51	18	10.8	12.4	0.46
6	22/06/2021	56	19	11.3	12.8	0.69
7	28/06/2021	49	17	11	12.2	0.51
8	29/06/2021	52	19	10.4	11.9	0.67
Average		52	18	10.4	11.9	0.57
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Ambient Air Quality				
Location : Kamalpur Village				
Month : June-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	07/06/2021	49	18	8	9.7	0.37
2	08/06/2021	54	20	8.6	10	0.29
3	14/06/2021	43	16	9.1	10.6	0.43
4	15/06/2021	39	13	7.9	9.5	0.25
5	21/06/2021	47	17	9.4	10.8	0.3
6	22/06/2021	19	18	8.3	9.8	0.36
7	28/06/2021	52	19	8.9	10.5	0.27
8	29/06/2021	50	17	9.5	10.9	0.41
Average		48	17	8.7	10.2	0.33
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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CIN No : U74210TG1999PTC032358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

JUNE - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location : Crusher Plant			Model	Enviro RDS / EI 142	
Month : June 2021			Serial no	103-G-19	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/06/2021	755	1200 [$\mu\text{g}/\text{m}^3$]
2	02/06/2021	732	
3	03/06/2021	830	
4	04/06/2021	813	
5	05/06/2021	809	
6	06/06/2021	846	
7	07/06/2021	795	
8	08/06/2021	712	
9	09/06/2021	763	
10	10/06/2021	683	
11	11/06/2021	491	
12	12/06/2021	537	
13	13/06/2021	514	
14	14/06/2021	490	
15	15/06/2021	570	
16	16/06/2021	443	
17	17/06/2021	445	
18	18/06/2021	695	
19	19/06/2021	581	
20	20/06/2021	563	
21	21/06/2021	713	
22	22/06/2021	750	
23	23/06/2021	463	
24	24/06/2021	813	
25	25/06/2021	741	
26	26/06/2021	765	
27	27/06/2021	580	
28	28/06/2021	724	
29	29/06/2021	760	
30	30/06/2021	749	
Average		671	

Legend: SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location : Working Pit Block-B			Model	Enviro RDS / EI 142	
Month : June-2021			Serial no	140-G-20	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	27/10/2021	

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/06/2021	682	1200 [$\mu\text{g}/\text{m}^3$]
2	02/06/2021	824	
3	03/06/2021	740	
4	04/06/2021	795	
5	05/06/2021	582	
6	06/06/2021	550	
7	07/06/2021	815	
8	08/06/2021	588	
9	09/06/2021	696	
10	10/06/2021	560	
11	11/06/2021	421	
12	12/06/2021	451	
13	13/06/2021	503	
14	14/06/2021	441	
15	15/06/2021	516	
16	16/06/2021	450	
17	17/06/2021	522	
18	18/06/2021	781	
19	19/06/2021	826	
20	20/06/2021	802	
21	21/06/2021	764	
22	22/06/2021	543	
23	23/06/2021	529	
24	24/06/2021	697	
25	25/06/2021	693	
26	26/06/2021	692	
27	27/06/2021	754	
28	28/06/2021	825	
29	29/06/2021	543	
30	30/06/2021	650	
Average		641	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location : Loading Area Block B			Model	Enviro RDS / EI 142	
Month : June-2021			Serial no	61-K-18	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/06/2021	685	1200 [$\mu\text{g}/\text{m}^3$]
2	02/06/2021	714	
3	03/06/2021	730	
4	04/06/2021	591	
5	05/06/2021	729	
6	06/06/2021	749	
7	07/06/2021	537	
8	08/06/2021	597	
9	09/06/2021	734	
10	10/06/2021	713	
11	11/06/2021	483	
12	12/06/2021	495	
13	13/06/2021	523	
14	14/06/2021	501	
15	15/06/2021	487	
16	16/06/2021	516	
17	17/06/2021	480	
18	18/06/2021	503	
19	19/06/2021	571	
20	20/06/2021	712	
21	21/06/2021	748	
22	22/06/2021	560	
23	23/06/2021	510	
24	24/06/2021	636	
25	25/06/2021	587	
26	26/06/2021	692	
27	27/06/2021	747	
28	28/06/2021	813	
29	29/06/2021	572	
30	30/06/2021	733	
Average		622	

Legend: SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location : Haul Road CB Block			Model	Enviro RDS / EI 142
Month : June-2021			Serial no	64-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/06/2021	750	1200 [$\mu\text{g}/\text{m}^3$]
2	02/06/2021	826	
3	03/06/2021	813	
4	04/06/2021	714	
5	05/06/2021	531	
6	06/06/2021	549	
7	07/06/2021	524	
8	08/06/2021	847	
9	09/06/2021	815	
10	10/06/2021	764	
11	11/06/2021	531	
12	12/06/2021	413	
13	13/06/2021	507	
14	14/06/2021	450	
15	15/06/2021	463	
16	16/06/2021	530	
17	17/06/2021	495	
18	18/06/2021	811	
19	19/06/2021	722	
20	20/06/2021	620	
21	21/06/2021	823	
22	22/06/2021	517	
23	23/06/2021	533	
24	24/06/2021	675	
25	25/06/2021	824	
26	26/06/2021	593	
27	27/06/2021	574	
28	28/06/2021	859	
29	29/06/2021	541	
30	30/06/2021	713	
Average		644	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location : Screen Plant			Model	Enviro RDS / EI 142	
Month : June-2021			Serial no	95-G-19	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/06/2021	867	1200 ($\mu\text{g}/\text{m}^3$)
2	02/06/2021	692	
3	03/06/2021	784	
4	04/06/2021	659	
5	05/06/2021	827	
6	06/06/2021	862	
7	07/06/2021	785	
8	08/06/2021	694	
9	09/06/2021	781	
10	10/06/2021	502	
11	11/06/2021	494	
12	12/06/2021	483	
13	13/06/2021	448	
14	14/06/2021	496	
15	15/06/2021	515	
16	16/06/2021	484	
17	17/06/2021	784	
18	18/06/2021	827	
19	19/06/2021	907	
20	20/06/2021	824	
21	21/06/2021	680	
22	22/06/2021	920	
23	23/06/2021	485	
24	24/06/2021	736	
25	25/06/2021	717	
26	26/06/2021	682	
27	27/06/2021	794	
28	28/06/2021	836	
29	29/06/2021	696	
30	30/06/2021	715	
Average		699	

Legend: SPM-Suspended Particulate Matter



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*Compliance Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-06				Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location : OB Dump-4			Model	Enviro RDS / EI 142	
Month : June-2021			Serial no	60-K-18	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/06/2021	527	1200 [$\mu\text{g}/\text{m}^3$]
2	02/06/2021	676	
3	03/06/2021	531	
4	04/06/2021	693	
5	05/06/2021	661	
6	06/06/2021	727	
7	07/06/2021	540	
8	08/06/2021	580	
9	09/06/2021	613	
10	10/06/2021	572	
11	11/06/2021	516	
12	12/06/2021	443	
13	13/06/2021	529	
14	14/06/2021	490	
15	15/06/2021	478	
16	16/06/2021	482	
17	17/06/2021	517	
18	18/06/2021	714	
19	19/06/2021	582	
20	20/06/2021	648	
21	21/06/2021	619	
22	22/06/2021	546	
23	23/06/2021	535	
24	24/06/2021	649	
25	25/06/2021	582	
26	26/06/2021	566	
27	27/06/2021	674	
28	28/06/2021	634	
29	29/06/2021	576	
30	30/06/2021	719	
Average		587	

Legend:SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory.

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
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CIN No. : U74210TG1989PTC032358

JAJANG IRON ORE MINES

AAQ REPORT

JULY - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Mines Office/AAQCZ-1				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/07/2021	55	19	10.3	11.7	0.44
2	02/07/2021	51	17	9.9	11.3	0.51
3	03/07/2021	60	21	10.7	12.2	0.56
4	04/07/2021	52	18	10.2	11.8	0.4
5	05/07/2021	47	16	11.1	12.5	0.61
6	06/07/2021	51	18	10.6	11.9	0.53
7	07/07/2021	56	19	9.5	10.8	0.48
8	08/07/2021	49	17	10.4	11.7	0.55
9	09/07/2021	61	21	9.8	11.3	0.64
10	10/07/2021	58	20	10	11.5	0.59
11	11/07/2021	48	16	10.9	12.3	0.52
12	12/07/2021	41	14	10.5	11.8	0.63
13	13/07/2021	43	15	11	12.2	0.46
14	14/07/2021	47	17	9.4	10.7	0.67
15	15/07/2021	52	19	10.8	12.2	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Mines Office/AAQCZ-1				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/07/2021	45	16	9.3	10.7	0.51
17	17/07/2021	57	20	10.2	11.8	0.45
18	18/07/2021	50	17	9.7	11.1	0.37
19	19/07/2021	54	19	10.8	12.3	0.46
20	20/07/2021	47	15	10.1	11.6	0.53
21	21/07/2021	58	21	9.5	10.6	0.41
22	22/07/2021	62	22	10.4	11.8	0.59
23	23/07/2021	53	18	11.5	12.7	0.63
24	24/07/2021	46	16	11.8	13.2	0.42
25	25/07/2021	51	19	10.9	12.4	0.66
26	26/07/2021	44	16	11.2	12.7	0.39
27	27/07/2021	40	14	9.7	11.2	0.51
28	28/07/2021	49	17	10.3	11.7	0.47
29	29/07/2021	43	15	11.5	12.9	0.55
30	30/07/2021	41	14	10.8	12.3	0.62
31	31/07/2021	38	12	11.1	12.5	0.67
Average		50	17	10.4	11.8	0.52
NAAQ Standards (24 hourly standard)		100 [µg/m³]	50 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/07/2021	54	21	11.3	12.9	0.65
2	02/07/2021	56	19	12.1	13.6	0.72
3	03/07/2021	66	23	11.7	13.3	0.58
4	04/07/2021	57	20	11.5	12.8	0.61
5	05/07/2021	50	17	10.6	11.7	0.66
6	06/07/2021	57	20	11.2	12.5	0.49
7	07/07/2021	61	21	10.9	12.4	0.53
8	08/07/2021	54	19	11.8	13.3	0.64
9	09/07/2021	65	23	12.1	13.6	0.47
10	10/07/2021	63	21	11.4	12.7	0.51
11	11/07/2021	51	18	10.7	12.2	0.57
12	12/07/2021	44	16	11.1	12.5	0.62
13	13/07/2021	48	17	12.2	13.8	0.68
14	14/07/2021	52	18	11.6	12.9	0.71
15	15/07/2021	55	19	10.5	11.8	0.62
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/07/2021	49	17	11.2	12.5	0.52
17	17/07/2021	62	22	10.8	12.3	0.47
18	18/07/2021	55	20	11.9	13.4	0.79
19	19/07/2021	45	16	12.1	13.7	0.83
20	20/07/2021	51	19	11.4	12.9	0.77
21	21/07/2021	63	23	11.8	13.2	0.75
22	22/07/2021	65	24	12.4	13.8	0.69
23	23/07/2021	57	20	13.1	14.5	0.55
24	24/07/2021	49	17	11.7	13.4	0.68
25	25/07/2021	54	19	11	12.2	0.53
26	26/07/2021	50	17	11.4	12.8	0.71
27	27/07/2021	43	15	10.9	12.3	0.62
28	28/07/2021	45	16	11.8	13.2	0.57
29	29/07/2021	47	17	10.2	11.8	0.69
30	30/07/2021	42	14	11.5	12.9	0.74
31	31/07/2021	40	13	10.6	12.2	0.61
Average		53	19	11.4	12.8	0.63
NAAQ Standards (24 hourly standard)		100 [µg/m³]	50 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



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*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Residential Colony/AAQCZ-4				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Envirotech APM 460BL & Envirotech APM 550			
Serial no	2852-DTC-15 & 1102-DTC-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/07/2021	46	15	8.5	10	0.41
2	02/07/2021	49	17	8.2	9.7	0.35
3	03/07/2021	51	19	9.1	10.5	0.44
4	04/07/2021	45	15	9.9	11.3	0.39
5	05/07/2021	54	19	8.8	10.2	0.51
6	06/07/2021	48	16	10.1	11.6	0.47
7	07/07/2021	50	17	8.3	9.7	0.56
8	08/07/2021	45	15	8.6	10.1	0.40
9	09/07/2021	41	14	9.4	10.8	0.51
10	10/07/2021	49	17	10.3	11.9	0.43
11	11/07/2021	55	19	9.7	11.2	0.58
12	12/07/2021	51	17	8.9	10.4	0.52
13	13/07/2021	57	20	9.5	10.8	0.46
14	14/07/2021	49	17	9.2	10.7	0.36
15	15/07/2021	53	18	10	11.3	0.42
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Residential Colony/AAQCZ-4				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used		Respirable Dust Sampler & Fine dust Sampler		
Model		Envirotech APM-460BL & Envirotech APM 550		
Serial no		2852-DTC-15 & 1102-DTC-2012		
Calibration validity		19/10/2021		

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/07/2021	56	19	9.6	10.9	0.37
17	17/07/2021	59	21	8.5	9.7	0.45
18	18/07/2021	49	17	9.1	10.4	0.5
19	19/07/2021	54	18	8.9	10.2	0.48
20	20/07/2021	46	16	10.3	11.6	0.39
21	21/07/2021	51	18	9.2	10.7	0.31
22	22/07/2021	44	15	10.7	12	0.44
23	23/07/2021	53	19	11.1	12.5	0.35
24	24/07/2021	41	13	9.9	11.2	0.3
25	25/07/2021	46	16	10.5	11.8	0.49
26	26/07/2021	54	18	9.3	10.5	0.53
27	27/07/2021	40	13	10.1	11.4	0.34
28	28/07/2021	36	12	10.8	12.3	0.41
29	29/07/2021	39	13	11	12.7	0.29
30	30/07/2021	34	12	9.6	10.9	0.38
31	31/07/2021	37	13	8.8	10.2	0.33
Average		48	17	9.5	10.9	0.42
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Work Shop Area/AAQCZ-3				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-08
1	01/07/2021	54	20	10.5	11.8	0.57
2	02/07/2021	51	18	11.2	12.6	0.68
3	03/07/2021	60	21	9.9	11.3	0.53
4	04/07/2021	52	18	11.4	12.8	0.71
5	05/07/2021	45	16	11.8	13.3	0.54
6	06/07/2021	51	17	10.3	11.7	0.62
7	07/07/2021	55	19	12.3	13.6	0.59
8	08/07/2021	49	17	11.7	13.1	0.55
9	09/07/2021	58	20	12	13.4	0.64
10	10/07/2021	61	21	11.5	12.8	0.56
11	11/07/2021	47	17	10.6	11.9	0.51
12	12/07/2021	41	14	11.9	12.3	0.65
13	13/07/2021	51	18	11.1	12.4	0.58
14	14/07/2021	56	21	10.4	11.8	0.66
15	15/07/2021	51	18	11.6	13	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Work Shop Area/AAQCZ 3				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/07/2021	45	16	10.9	12.3	0.46
17	17/07/2021	57	17	11.2	12.7	0.58
18	18/07/2021	51	19	11.5	12.9	0.67
19	19/07/2021	49	17	10.6	11.8	0.53
20	20/07/2021	56	20	11.3	12.7	0.72
21	21/07/2021	59	22	10.2	11.8	0.65
22	22/07/2021	62	24	12	13.3	0.59
23	23/07/2021	52	18	10.4	11.9	0.54
24	24/07/2021	45	16	11.9	12.4	0.47
25	25/07/2021	51	18	10.1	11.6	0.61
26	26/07/2021	45	15	9.9	11.3	0.7
27	27/07/2021	48	10	10.8	12.4	0.53
28	28/07/2021	44	15	11.5	12.9	0.69
29	29/07/2021	40	13	12.2	13.7	0.52
30	30/07/2021	38	13	10.8	12.4	0.49
31	31/07/2021	41	14	11	12.6	0.63
Average		51	18	11.1	12.4	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Jajang Village/AAQBZ-1				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	30-I-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/07/2021	56	20	11.2	12.8	0.59
2	06/07/2021	51	17	11.5	13.1	0.65
3	12/07/2021	55	20	10.9	12.3	0.48
4	13/07/2021	58	22	10.3	11.7	0.55
5	19/07/2021	49	17	11	12.3	0.51
6	20/07/2021	53	18	10.7	12.2	0.63
7	26/07/2021	42	14	10.4	11.8	0.72
8	27/07/2021	46	15	11.4	12.6	0.66
Average		52	18	10.9	12.3	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Jaribahal Village/AAQBZ-2				
Month : July-2021				
Sample Collected by: B.S. Envi Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	08/07/2021	57	20	12.4	13.7	0.63
2	09/07/2021	51	17	11.8	13.3	0.62
3	15/07/2021	56	19	11.3	12.6	0.57
4	16/07/2021	52	18	10.6	11.9	0.53
5	22/07/2021	49	17	11.4	12.7	0.65
6	23/07/2021	53	19	10.9	12.4	0.59
7	29/07/2021	48	17	11.1	12.8	0.55
8	30/07/2021	42	14	11.5	12.9	0.61
Average		51	18	11.3	12.7	0.60
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Badhuabeda Village/AAQBZ-3				
Month : July-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	30-L-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	08/07/2021	52	18	11.1	12.6	0.65
2	09/07/2021	47	16	10.9	12.2	0.57
3	15/07/2021	50	17	10.3	11.7	0.51
4	16/07/2021	55	19	9.7	11.1	0.59
5	22/07/2021	53	15	10.8	12.4	0.52
6	23/07/2021	49	17	9.9	11.3	0.48
7	29/07/2021	45	14	10.4	11.8	0.61
8	30/07/2021	39	13	10.7	12.1	0.56
Average		49	16	10.4	11.9	0.56
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Ambient Air Quality				
Location/Code : Kamalpur Village/AAQBZ-4				
Month : July 2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/07/2021	46	16	8.3	9.9	0.25
2	06/07/2021	40	13	9.2	10.5	0.31
3	12/07/2021	48	16	7.7	9.1	0.33
4	13/07/2021	50	18	8.5	9.8	0.22
5	19/07/2021	49	17	8.8	10.4	0.34
6	20/07/2021	41	13	9.1	10.6	0.29
7	26/07/2021	39	12	8.6	10.2	0.36
8	27/07/2021	44	15	7.9	9.3	0.28
Average		45	15	8.5	9.9	0.29
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



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*Complaints Register is available at Laboratory.

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Website : www.bsenvitech.com
CIN No : U74210TG1999PTC032358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

JULY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Crusher Plant/FDM-1			Model	Enviro HDS / EJ 142
Month : July-2021			Serial no	103-G-19
Sample Collected by: B.S. Envi Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/07/2021	716	1200 [$\mu\text{g}/\text{m}^3$]
2	02/07/2021	463	
3	03/07/2021	659	
4	04/07/2021	559	
5	05/07/2021	573	
6	06/07/2021	623	
7	07/07/2021	583	
8	08/07/2021	664	
9	09/07/2021	594	
10	10/07/2021	711	
11	11/07/2021	632	
12	12/07/2021	543	
13	13/07/2021	670	
14	14/07/2021	540	
15	15/07/2021	582	
16	16/07/2021	726	
17	17/07/2021	692	
18	18/07/2021	589	
19	19/07/2021	720	
20	20/07/2021	642	
21	21/07/2021	513	
22	22/07/2021	548	
23	23/07/2021	483	
24	24/07/2021	523	
25	25/07/2021	593	
26	26/07/2021	531	
27	27/07/2021	559	
28	28/07/2021	505	
29	29/07/2021	466	
30	30/07/2021	407	
31	31/07/2021	379	
Average		581	

Legend:SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Working Pit Block-B/FDM-2			Model	Enviro RDS / EI 142
Month : July-2021			Serial no	140-G-20
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	27/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/07/2021	823	1200 [$\mu\text{g}/\text{m}^3$]
2	02/07/2021	715	
3	03/07/2021	587	
4	04/07/2021	594	
5	05/07/2021	582	
6	06/07/2021	679	
7	07/07/2021	594	
8	08/07/2021	816	
9	09/07/2021	802	
10	10/07/2021	543	
11	11/07/2021	576	
12	12/07/2021	613	
13	13/07/2021	715	
14	14/07/2021	733	
15	15/07/2021	493	
16	16/07/2021	638	
17	17/07/2021	513	
18	18/07/2021	472	
19	19/07/2021	594	
20	20/07/2021	466	
21	21/07/2021	420	
22	22/07/2021	513	
23	23/07/2021	410	
24	24/07/2021	443	
25	25/07/2021	513	
26	26/07/2021	552	
27	27/07/2021	468	
28	28/07/2021	427	
29	29/07/2021	391	
30	30/07/2021	345	
31	31/07/2021	311	
Average		560	

Legend:SPM-Suspended Particulate Matter



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*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code: Loading Area Block B/FDM-3			Model	Enviro RDS / EI 142
Month : July-2021			Serial no	61-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/07/2021	613	1200 [$\mu\text{g}/\text{m}^3$]
2	02/07/2021	725	
3	03/07/2021	432	
4	04/07/2021	795	
5	05/07/2021	582	
6	06/07/2021	661	
7	07/07/2021	714	
8	08/07/2021	561	
9	09/07/2021	595	
10	10/07/2021	434	
11	11/07/2021	473	
12	12/07/2021	462	
13	13/07/2021	530	
14	14/07/2021	580	
15	15/07/2021	483	
16	16/07/2021	520	
17	17/07/2021	673	
18	18/07/2021	471	
19	19/07/2021	476	
20	20/07/2021	443	
21	21/07/2021	530	
22	22/07/2021	558	
23	23/07/2021	476	
24	24/07/2021	483	
25	25/07/2021	513	
26	26/07/2021	527	
27	27/07/2021	585	
28	28/07/2021	517	
29	29/07/2021	490	
30	30/07/2021	433	
31	31/07/2021	406	
Average		540	

Legend: SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:	
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location/Code : Haul Road CB Block/FDM-4			Model	Enviro RDS / EI 142	
Month : July-2021			Serial no	64-K-1A	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/07/2021	516	1200 [$\mu\text{g}/\text{m}^3$]
2	02/07/2021	729	
3	03/07/2021	833	
4	04/07/2021	563	
5	05/07/2021	428	
6	06/07/2021	622	
7	07/07/2021	748	
8	08/07/2021	562	
9	09/07/2021	593	
10	10/07/2021	584	
11	11/07/2021	463	
12	12/07/2021	711	
13	13/07/2021	570	
14	14/07/2021	423	
15	15/07/2021	549	
16	16/07/2021	505	
17	17/07/2021	552	
18	18/07/2021	460	
19	19/07/2021	463	
20	20/07/2021	581	
21	21/07/2021	613	
22	22/07/2021	684	
23	23/07/2021	450	
24	24/07/2021	589	
25	25/07/2021	692	
26	26/07/2021	715	
27	27/07/2021	517	
28	28/07/2021	485	
29	29/07/2021	441	
30	30/07/2021	423	
31	31/07/2021	386	
Average		567	

Legend:SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Screen Plant/FDM-5			Model	Enviro RDS / EI 142
Month : July-2021			Serial no	95-G-19
Sample Collected by: B.S. Envi-Tech (P) Ltd..			Calibration Validity	19/10/2021

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/07/2021	613	1200 ($\mu\text{g}/\text{m}^3$)
2	02/07/2021	713	
3	03/07/2021	683	
4	04/07/2021	663	
5	05/07/2021	550	
6	06/07/2021	579	
7	07/07/2021	539	
8	08/07/2021	650	
9	09/07/2021	470	
10	10/07/2021	590	
11	11/07/2021	582	
12	12/07/2021	574	
13	13/07/2021	582	
14	14/07/2021	613	
15	15/07/2021	581	
16	16/07/2021	731	
17	17/07/2021	693	
18	18/07/2021	631	
19	19/07/2021	583	
20	20/07/2021	715	
21	21/07/2021	502	
22	22/07/2021	467	
23	23/07/2021	467	
24	24/07/2021	552	
25	25/07/2021	712	
26	26/07/2021	531	
27	27/07/2021	609	
28	28/07/2021	577	
29	29/07/2021	516	
30	30/07/2021	487	
31	31/07/2021	412	
Average		586	

Legend:SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-07				Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : OB Dump-4/FDM-6			Model	Enviro RDS / EI 142
Month : July-2021			Serial no	60-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd..			Calibration Validity	19/10/2021

S.NO	DATE	SPM $\mu\text{g}/\text{m}^3$	Standards as per CTO
1	01/07/2021	449	1200 $\mu\text{g}/\text{m}^3$
2	02/07/2021	513	
3	03/07/2021	628	
4	04/07/2021	483	
5	05/07/2021	449	
6	06/07/2021	560	
7	07/07/2021	584	
8	08/07/2021	493	
9	09/07/2021	678	
10	10/07/2021	593	
11	11/07/2021	480	
12	12/07/2021	446	
13	13/07/2021	498	
14	14/07/2021	513	
15	15/07/2021	584	
16	16/07/2021	665	
17	17/07/2021	513	
18	18/07/2021	493	
19	19/07/2021	470	
20	20/07/2021	520	
21	21/07/2021	460	
22	22/07/2021	483	
23	23/07/2021	563	
24	24/07/2021	472	
25	25/07/2021	633	
26	26/07/2021	513	
27	27/07/2021	493	
28	28/07/2021	415	
29	29/07/2021	395	
30	30/07/2021	377	
31	31/07/2021	361	
Average		510	

Legend:SPM-Suspended Particulate Matter



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JAJANG IRON ORE MINES

AAQ-7 PARAMETERS

AUGUST – 2021



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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/IR-1612 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021	
Sample Description: Ambient Air Quality sample		Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received	
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below			
Date of Sampling: 10.08.2021 General Environment conditions: Ok		Sampling Details Location of Sampling: Near Mines Office Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O_3), $\mu g/m^3$	IS-5182 (Part-IX) 1974 (Reaffirmed 2014)	10.0	180 (1 Hour)
2	Lead (Pb), $\mu g/m^3$	USEPA - IO - 3.2 - 1999, BY AAS	0.12	1 (24 Hours)
3	Ammonia (NH_3), $\mu g/m^3$	BSET/SOP/AA-06, (Indophenol Blue Method)	11.1	400 (24 Hours)
4	Benzene, $\mu g/m^3$	IS: 5182 (P-11) : 2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng/m^3	IS: 5182 (P-12) : 2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m^3	USEPA - IO - 3.2 - 1999, BY AAS - VGA	0.32	6 (Annual)
7	Nickel (Ni), ng/m^3	USEPA - IO - 3.2 - 1999, BY AAS	0.45	20 (Annual)

Interpretation of results: Nil
 Deviation from test method: Nil

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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines Sample Description: Ambient Air Quality sample	Test Report No. : BSET/2021/TR-2613 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below	Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received
Date of Sampling: 10.08.2021 General Environment conditions: Ok Location of Sampling: Entry & Exit Gate Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O ₃), µg/m ³	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	11.0	180 (1 Hour)
2	Lead (Pb), µg/m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.12	1 (24 Hours)
3	Ammonia (NH ₃), µg/m ³	BSFT/SOP/AA-06, (Indophenol Blue Method)	10.9	400 (24 Hours)
4	Benzene, µg/m ³	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo(a) Pyrene, (BaP) Particulate phase only, ng/m ³	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m ³	USEPA - IO - 3.2 - 1999, BY AAS - VGA	0.42	6 (Annual)
7	Nickel (Ni), ng/m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.53	20 (Annual)

Interpretation of results: Nil
Deviation from test method: Nil



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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Tajung Iron Ore Mines	Test Report No. : BSET/2021/TR-2614	
Sample Description: Ambient Air Quality sample	Issue Date	: 13.08.2021
	Your Ref	: Letter dated 13.08.2021
	Date of Receipt	: 13.08.2021
	Date of Registration	13.08.2021
	Date of commencement of testing	13.08.2021
	Date of completion of testing	17.08.2021
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below	Sample condition at receipt	Found ok
	Sample tested as received	
<u>Sampling Details</u>		
Date of Sampling: 10.08.2021 General Environment conditions: Ok	Location of Sampling: Residential Colony	
	Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O_3), $\mu g / m^3$	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	13.1	180 (1 Hour)
2	Lead (Pb), $\mu g / m^3$	USEPA - IO - 3.2 - 1999, BY AAS	0.29	1 (24 Hours)
3	Ammonia (NH_3), $\mu g / m^3$	BSET/SOP/AA-06, (Indophenol Blue Method)	8.5	400 (24 Hours)
4	Benzene, $\mu g / m^3$	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng / m^3	IS: 5182 (P-17) :2014 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng / m^3	USEPA - IO - 3.2 - 1999, BY AAS - VGA	0.42	6 (Annual)
7	Nickel (Ni), ng / m^3	USEPA - IO - 3.2 - 1999, BY AAS	0.35	20 (Annual)

Interpretation of results: Nil
Deviation from test method: Nil

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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/IR-2615 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021	
Sample Description: Ambient Air Quality sample		Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received :	
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below			
Date of Sampling: 10.08.2021 General Environment conditions: Ok		Sampling Details Location of Sampling: Workshop Area Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O ₃), µg/m ³	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	9.1	180 (1 Hour)
2	Lead (Pb), µg/m ³	USEPA IO - 3.2 - 1999, BY AAS	0.10	1 (24 Hours)
3	Ammonia (NH ₃), µg/m ³	BSET/SOP/AA-06, (Indophenol Blue Method)	11.3	400 (24 Hours)
4	Benzene, µg/m ³	IS: 5182 (P-11):2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng/m ³	IS: 5182 (P-12):2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m ³	USEPA IO - 3.2 - 1999, BY AAS - VGA	0.47	6 (Annual)
7	Nickel (Ni), ng/m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.32	20 (Annual)

Interpretation of results: Nil
 Deviation from test method: Nil



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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/TR-2616 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021	
Sample Description: Ambient Air Quality sample		Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received	
Qty & Packing : 1 filter paper for Lead, Benzene, pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below			
Date of Sampling: 10.08.2021 General Environment conditions: Ok		Location of Sampling: Jajang Village Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O_3), $\mu g / m^3$	IS: 5182 (Part-IX) 1974 (Reaffirmed 2014)	9.0	180 (1 Hour)
2	Lead (Pb), $\mu g / m^3$	USEPA - IO - 3.2 - 1999, BY AAS	0.12	1 (24 Hours)
3	Ammonia (NH_3), $\mu g / m^3$	BSET/SOP/AA-06, (Indophenol Blue Method)	12.7	400 (24 Hours)
4	Benzene, $\mu g / m^3$	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng / m^3	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng / m^3	USEPA IO 3.2 1999, BY AAS - VGA	0.40	6 (Annual)
7	Nickel (Ni), ng / m^3	USEPA IO 3.2 1999, BY AAS	0.32	20 (Annual)

Interpretation of results: Nil
 Deviation from test method: Nil



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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/TR-2617	
Sample Description: Ambient Air Quality sample		Issue Date : 13.08.2021	
		Your Ref : Letter dated 13.08.2021	
		Date of Receipt : 13.08.2021	
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below	Date of Registration	13.08.2021	
	Date of commencement of testing	13.08.2021	
	Date of completion of testing	17.08.2021	
	Sample condition at receipt	Found ok	
	Sample tested as received		
Sampling Details			
Date of Sampling: 10.08.2021		Location of Sampling: Jaribahal Village	
General Environment conditions: Ok		Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Urban areas
1	Ozone (O ₃), $\mu\text{g}/\text{m}^3$	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	9.7	180 (1 Hour)
2	Lead (Pb), $\mu\text{g}/\text{m}^3$	USEPA - IO - 3.2 - 1999, BY AAS	0.13	1 (24 Hours)
3	Ammonia (NH ₃), $\mu\text{g}/\text{m}^3$	BSET/SOP/AA-06, (Indophenol Blue Method)	12.3	400 (24 Hours)
4	Benzene, $\mu\text{g}/\text{m}^3$	IS: 5182 (P-II) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng/m^3	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m^3	USEPA - IO - 3.2 - 1999, BY AAS - VGA	0.36	6 (Annual)
7	Nickel (Ni), ng/m^3	USEPA - IO - 3.2 - 1999, BY AAS	0.43	20 (Annual)

Interpretation of results: Nil
Deviation from test method: Nil

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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/TR-2618 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021	
Sample Description: Ambient Air Quality sample		Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received	
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below			
Sampling Details			
Date of Sampling: 10.08.2021 General Environment conditions: Ok		Location of Sampling: Bandhabada Village Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O ₃), µg/m ³	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	8.6	180 (1 Hour)
2	Lead (Pb), µg/m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.29	1 (24 Hours)
3	Ammonia (NH ₃), µg/m ³	BSET/SOP/AA-06, (Indophenol Blue Method)	14.3	400 (24 Hours)
4	Benzene, µg/m ³	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng/m ³	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m ³	USEPA - IO - 3.2 - 1999, BY AAS - VGA	0.32	6 (Annual)
7	Nickel (Ni), ng/m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.60	20 (Annual)

Interpretation of results: Nil
 Deviation from test method: Nil

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TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited Jajang Iron Ore Mines		Test Report No. : BSET/2021/TR-2619 Issue Date : 18.08.2021 Your Ref : Letter dated 13.08.2021 Date of Receipt : 13.08.2021	
Sample Description: Ambient Air Quality sample		Date of Registration : 13.08.2021 Date of commencement of testing : 13.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received	
Qty & Packing : 1 filter paper for Lead, Benzo(a) pyrene, Arsenic, Nickel 30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone 1 No Charcoal tube for Benzene Test Required : As per given below			
Sampling Details			
Date of Sampling: 10.08.2021 General Environment conditions: Ok		Location of Sampling: Kurnalpur Village Page No: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial, Residential, Rural and Other areas
1	Ozone (O_3), $\mu g/m^3$	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	9.8	180 (1 Hour)
2	Lead (Pb), $\mu g/m^3$	USEPA IO - 3.2 - 1999, BY AAS	0.10	1 (24 Hours)
3	Ammonia (NH_3), $\mu g/m^3$	BSET/SOP/AA-06, (Indophenol Blue Method)	13.1	400 (24 Hours)
4	Benzene, $\mu g/m^3$	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrene, (BaP) Particulate phase only, ng/m^3	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1	1 (Annual)
6	Arsenic (As), ng/m^3	USEPA IO - 3.2 - 1999, BY AAS - VOA	0.42	6 (Annual)
7	Nickel (Ni), ng/m^3	USEPA IO - 3.2 - 1999, BY AAS	0.35	20 (Annual)

Interpretation of results: Nil
Deviation from test method: Nil

Authorized Signatory



*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

AAQ REPORT

AUGUST - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Mines Office/AAQCZ-1				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/08/2021	50	16	9.6	11.2	0.53
2	02/08/2021	47	14	9.2	10.7	0.47
3	03/08/2021	41	13	10.1	11.5	0.39
4	04/08/2021	49	16	9.4	10.8	0.44
5	05/08/2021	53	18	10.4	11.9	0.51
6	06/08/2021	55	19	10.8	12.2	0.58
7	07/08/2021	51	17	11.2	12.6	0.45
8	08/08/2021	45	15	9.5	10.9	0.41
9	09/08/2021	57	19	8.8	10.3	0.6
10	10/08/2021	52	18	9.3	10.8	0.46
11	11/08/2021	44	15	10	11.7	0.55
12	12/08/2021	48	17	10.9	12.3	0.51
13	13/08/2021	56	19	9.8	11.4	0.43
14	14/08/2021	62	22	8.4	9.9	0.6
15	15/08/2021	51	17	10.3	11.6	0.52
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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Website : www.bsenvitech.com
CIN No : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Mines Office/AAQCZ-1				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/08/2021	41	14	9.7	11.3	0.66
17	17/08/2021	38	13	10.6	11.9	0.59
18	18/08/2021	44	16	11.7	13	0.44
19	19/08/2021	50	18	10.1	11.5	0.4
20	20/08/2021	48	16	11.2	12.8	0.53
21	21/08/2021	52	19	10.7	12.2	0.68
22	22/08/2021	54	20	10.9	12.4	0.59
23	23/08/2021	60	21	9.5	10.8	0.35
24	24/08/2021	47	16	10.3	11.7	0.44
25	25/08/2021	51	18	11.4	12.9	0.63
26	26/08/2021	44	15	10.5	11.8	0.57
27	27/08/2021	39	13	9.7	11.1	0.65
28	28/08/2021	43	15	9.1	10.4	0.45
29	29/08/2021	38	12	10.5	11.9	0.41
30	30/08/2021	46	15	9.8	11.3	0.5
31	31/08/2021	51	17	8.9	10.4	0.36
Average		49	17	10.0	11.5	0.50
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used		Respirable Dust Sampler & Fine dust Sampler		
Model		Enviro RDS / EI 142 & Enviro EI 133		
Serial no		98-G 19 & 86-G-19		
Calibration validity		05/10/2021 & 19/10/2021		

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/08/2021	53	19	10.8	12.4	0.56
2	02/08/2021	57	20	11.1	12.6	0.43
3	03/08/2021	49	14	12.4	13.8	0.67
4	04/08/2021	51	18	11.9	13.3	0.51
5	05/08/2021	60	21	10.4	11.9	0.78
6	06/08/2021	63	22	11.2	12.7	0.57
7	07/08/2021	58	20	10.6	11.9	0.43
8	08/08/2021	49	17	11.5	12.8	0.74
9	09/08/2021	61	21	11.9	13.3	0.67
10	10/08/2021	55	19	12.3	13.7	0.71
11	11/08/2021	48	16	10.9	12.3	0.49
12	12/08/2021	50	17	11.4	12.8	0.52
13	13/08/2021	59	20	11.8	13.2	0.68
14	14/08/2021	67	23	10.7	12.1	0.46
15	15/08/2021	57	19	11.2	12.6	0.66
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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 CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used		Respirable Dust Sampler & Fine dust Sampler		
Model		Enviro RDS / EI 142 & Enviro EI 133		
Serial no		98-G-19 & 86-G-19		
Calibration validity		05/10/2021 & 19/10/2021		

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/08/2021	47	16	10.5	11.8	0.48
17	17/08/2021	43	14	11	12.4	0.55
18	18/08/2021	49	17	11.4	12.8	0.41
19	19/08/2021	61	21	11.7	13.1	0.75
20	20/08/2021	56	19	12.1	13.6	0.69
21	21/08/2021	50	17	11.3	12.8	0.58
22	22/08/2021	59	21	10.6	11.9	0.51
23	23/08/2021	63	22	11.2	12.5	0.64
24	24/08/2021	65	24	10.7	12.1	0.78
25	25/08/2021	57	20	10.1	11.5	0.65
26	26/08/2021	51	18	9.4	10.8	0.51
27	27/08/2021	49	17	9.9	11.2	0.7
28	28/08/2021	42	14	10.8	12.4	0.63
29	29/08/2021	40	14	10.2	11.6	0.54
30	30/08/2021	48	17	11.3	12.7	0.61
31	31/08/2021	55	20	10	11.2	0.49
Average		54	19	11.0	12.4	0.59
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:	
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021		
Sample Description: Ambient Air Quality					
Location/Code : Residential Colony/AAQCZ-4					
Month : August-2021					
Sample Collected by: B.S. Env Tech (P) Ltd.,					
Instruments used	Respirable Dust Sampler & Fine dust Sampler				
Model	Envirotech APM-460BL & Envirotech APM 550				
Serial no	2852-DTC-15 & 1102-DTC-2012				
Calibration validity	19/10/2021				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/08/2021	40	13	9.4	10.7	0.37
2	02/08/2021	44	15	8.9	10.3	0.28
3	03/08/2021	39	12	8.6	10	0.41
4	04/08/2021	37	12	10.2	11.7	0.46
5	05/08/2021	43	14	7.9	9.2	0.39
6	06/08/2021	49	17	9.5	10.8	0.51
7	07/08/2021	46	16	9.1	10.6	0.45
8	08/08/2021	50	17	8.2	9.7	0.38
9	09/08/2021	42	14	8.5	9.9	0.33
10	10/08/2021	49	17	9.8	11.2	0.49
11	11/08/2021	41	14	10.4	11.7	0.42
12	12/08/2021	37	12	10	11.4	0.5
13	13/08/2021	40	14	9.3	10.6	0.44
14	14/08/2021	51	17	10.1	11.6	0.56
15	15/08/2021	47	16	9.8	11.2	0.48
NAAQ Standards (24 hourly standard)		100 [µg/m³]	50 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Residential Colony/AAQCZ-4				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Envirotech APM-460BL & Envirotech APM 550			
Serial no	2852-DTC-15 & 1102-DTC-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m³]	SO ₂ [µg/m³]	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/08/2021	33	11	8.8	10.4	0.57
17	17/08/2021	40	13	9.1	10.6	0.42
18	18/08/2021	42	15	10.5	11.9	0.51
19	19/08/2021	47	16	9.7	11.3	0.49
20	20/08/2021	41	14	8.6	9.9	0.36
21	21/08/2021	48	17	9.4	10.8	0.27
22	22/08/2021	35	13	10.9	12.3	0.3
23	23/08/2021	43	15	9.9	11.5	0.39
24	24/08/2021	54	18	10.3	11.7	0.48
25	25/08/2021	49	17	8.4	9.8	0.35
26	26/08/2021	51	16	9.6	11	0.52
27	27/08/2021	45	14	8.9	10.4	0.43
28	28/08/2021	49	17	10.2	11.8	0.55
29	29/08/2021	53	18	9.5	10.9	0.49
30	30/08/2021	47	16	10.6	12.1	0.54
31	31/08/2021	51	17	10	11.3	0.46
Average		45	15	9.4	10.9	0.43
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Work Shop Area/AAQCZ-3				
Month : August 2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/08/2021	50	17	11.6	12.9	0.65
2	02/08/2021	54	19	10.9	12.2	0.58
3	03/08/2021	45	16	11.1	12.5	0.43
4	04/08/2021	42	14	11.4	12.8	0.61
5	05/08/2021	53	18	10.7	12	0.64
6	06/08/2021	56	20	11.3	12.6	0.52
7	07/08/2021	49	17	10.5	11.8	0.69
8	08/08/2021	43	15	11.8	13.1	0.56
9	09/08/2021	55	19	11.2	12.7	0.74
10	10/08/2021	51	17	10.8	12.2	0.66
11	11/08/2021	44	15	11.6	12.9	0.71
12	12/08/2021	47	17	9.9	11.4	0.45
13	13/08/2021	51	18	10.1	11.7	0.63
14	14/08/2021	60	21	11.4	12.9	0.55
15	15/08/2021	53	18	12.2	13.6	0.69
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Work Shop Area/AAQCZ-3				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L 17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/08/2021	42	16	9.7	11.4	0.47
17	17/08/2021	40	15	10.6	11.9	0.51
18	18/08/2021	44	17	11.3	12.8	0.6
19	19/08/2021	52	19	10.2	11.6	0.63
20	20/08/2021	50	17	11.7	13	0.54
21	21/08/2021	41	14	9.9	11.4	0.65
22	22/08/2021	52	16	11.1	12.5	0.57
23	23/08/2021	59	20	10.4	11.7	0.53
24	24/08/2021	62	22	11	12.7	0.68
25	25/08/2021	45	16	10.7	12.2	0.54
26	26/08/2021	48	17	11.9	13.1	0.65
27	27/08/2021	53	19	10.1	11.6	0.59
28	28/08/2021	44	16	11.3	12.7	0.73
29	29/08/2021	38	14	10.5	11.8	0.49
30	30/08/2021	41	14	9.8	11.3	0.46
31	31/08/2021	47	16	10.3	11.5	0.52
Average		49	17	10.8	12.2	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Jajang Village/AAQBZ-1				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	30-L-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	02/08/2021	49	17	9.9	11.4	0.59
2	03/08/2021	44	15	11.2	12.7	0.63
3	09/08/2021	53	18	11.5	12.9	0.54
4	10/08/2021	48	16	10.8	12.2	0.48
5	16/08/2021	41	14	10.4	11.6	0.57
6	17/08/2021	56	19	11.1	12.5	0.61
7	23/08/2021	59	20	10.6	11.9	0.56
8	24/08/2021	54	18	11.7	13	0.69
Average		51	17	10.9	12.2	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


Authorized Signatory



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Jaribahal Village/AAQBZ-2				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L 17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO (mg/m ³)
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/08/2021	54	19	11.5	12.9	0.58
2	06/08/2021	61	22	10.8	12.3	0.65
3	12/08/2021	63	23	11.9	13.2	0.69
4	13/08/2021	52	18	10.5	11.8	0.51
5	19/08/2021	50	17	11.3	12.6	0.56
6	20/08/2021	48	16	11	12.4	0.49
7	26/08/2021	43	14	10.7	12.1	0.57
8	27/08/2021	49	17	11.2	12.6	0.63
Average		53	18	11.1	12.4	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 (mg/m³) (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


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B.S. ENVI - TECH PVT. LTD.



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Badhuabeda Village/AAQBZ-3				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used		Respirable Dust Sampler & Fine dust Sampler		
Model		Enviro RDS/EI 142 & Envirotech AI'M 550		
Serial no		30-L-17 & 1084-DTB-2012		
Calibration validity		19/10/2021		

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	05/08/2021	50	17	10.7	12.3	0.54
2	06/08/2021	55	19	10.4	11.8	0.49
3	12/08/2021	58	20	10.9	12.3	0.45
4	13/08/2021	49	17	9.9	11.4	0.51
5	19/08/2021	47	16	10.2	11.7	0.46
6	20/08/2021	43	14	9.5	10.8	0.41
7	26/08/2021	41	14	10.8	12.3	0.6
8	27/08/2021	48	15	10.1	11.6	0.47
Average		49	17	10.3	11.7	0.49
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
SO₂-Sulphur Dioxide
NO₂- Nitrogen Dioxide
CO-Carbon Monoxide


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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Ambient Air Quality				
Location/Code : Kamalpur Village/AAQBZ-4				
Month : August-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	02/08/2021	37	12	7.9	9.3	0.46
2	03/08/2021	39	13	7.5	8.7	0.37
3	09/08/2021	43	15	8.2	9.8	0.25
4	10/08/2021	40	14	7.8	9.4	0.29
5	16/08/2021	46	16	8.4	9.9	0.31
6	17/08/2021	38	13	8.1	9.6	0.26
7	23/08/2021	43	15	8.8	10.4	0.33
8	24/08/2021	47	16	8.3	9.8	0.4
Average		42	14	8.1	9.6	0.33
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


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JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

AUGUST - 2021



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Crusher Plant/FDM-1			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	103-G-19
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/08/2021	695	1200 $\mu\text{g}/\text{m}^3$
2	02/08/2021	625	
3	03/08/2021	795	
4	04/08/2021	744	
5	05/08/2021	713	
6	06/08/2021	529	
7	07/08/2021	826	
8	08/08/2021	854	
9	09/08/2021	769	
10	10/08/2021	751	
11	11/08/2021	842	
12	12/08/2021	582	
13	13/08/2021	595	
14	14/08/2021	769	
15	15/08/2021	592	
16	16/08/2021	558	
17	17/08/2021	643	
18	18/08/2021	682	
19	19/08/2021	652	
20	20/08/2021	842	
21	21/08/2021	754	
22	22/08/2021	732	
23	23/08/2021	659	
24	24/08/2021	583	
25	25/08/2021	594	
26	26/08/2021	699	
27	27/08/2021	823	
28	28/08/2021	582	
29	29/08/2021	576	
30	30/08/2021	764	
31	31/08/2021	695	
Average		694	

Legend:SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Working Pit Block-B/FDM-2			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	140-G-20
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	27/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/08/2021	695	1200 [$\mu\text{g}/\text{m}^3$]
2	02/08/2021	582	
3	03/08/2021	795	
4	04/08/2021	715	
5	05/08/2021	743	
6	06/08/2021	625	
7	07/08/2021	813	
8	08/08/2021	829	
9	09/08/2021	594	
10	10/08/2021	373	
11	11/08/2021	566	
12	12/08/2021	520	
13	13/08/2021	649	
14	14/08/2021	683	
15	15/08/2021	673	
16	16/08/2021	514	
17	17/08/2021	548	
18	18/08/2021	589	
19	19/08/2021	679	
20	20/08/2021	842	
21	21/08/2021	692	
22	22/08/2021	699	
23	23/08/2021	823	
24	24/08/2021	584	
25	25/08/2021	736	
26	26/08/2021	813	
27	27/08/2021	596	
28	28/08/2021	820	
29	29/08/2021	748	
30	30/08/2021	549	
31	31/08/2021	582	
Average		678	

Legend:SPM-Suspended Particulate Matter


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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code: Loading Area Block B/FDM-3			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	61-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM $\mu\text{g}/\text{m}^3$	Standards as per CTO
1	01/08/2021	745	1200 $\mu\text{g}/\text{m}^3$
2	02/08/2021	829	
3	03/08/2021	535	
4	04/08/2021	548	
5	05/08/2021	516	
6	06/08/2021	764	
7	07/08/2021	695	
8	08/08/2021	643	
9	09/08/2021	582	
10	10/08/2021	587	
11	11/08/2021	733	
12	12/08/2021	613	
13	13/08/2021	692	
14	14/08/2021	820	
15	15/08/2021	546	
16	16/08/2021	573	
17	17/08/2021	591	
18	18/08/2021	608	
19	19/08/2021	580	
20	20/08/2021	729	
21	21/08/2021	794	
22	22/08/2021	834	
23	23/08/2021	811	
24	24/08/2021	859	
25	25/08/2021	724	
26	26/08/2021	567	
27	27/08/2021	593	
28	28/08/2021	584	
29	29/08/2021	529	
30	30/08/2021	573	
31	31/08/2021	649	
Average		656	

Legend:SPM-Suspended Particulate Matter



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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Haul Road CB Block/FDM-4			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	64-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd..			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/08/2021	684	1200 $\mu\text{g}/\text{m}^3$
2	02/08/2021	759	
3	03/08/2021	825	
4	04/08/2021	843	
5	05/08/2021	516	
6	06/08/2021	547	
7	07/08/2021	582	
8	08/08/2021	683	
9	09/08/2021	792	
10	10/08/2021	583	
11	11/08/2021	824	
12	12/08/2021	736	
13	13/08/2021	646	
14	14/08/2021	738	
15	15/08/2021	801	
16	16/08/2021	570	
17	17/08/2021	690	
18	18/08/2021	764	
19	19/08/2021	738	
20	20/08/2021	692	
21	21/08/2021	582	
22	22/08/2021	591	
23	23/08/2021	543	
24	24/08/2021	587	
25	25/08/2021	683	
26	26/08/2021	593	
27	27/08/2021	739	
28	28/08/2021	781	
29	29/08/2021	659	
30	30/08/2021	831	
31	31/08/2021	720	
Average		688	

Legend: SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Screen Plant/FDM-5			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	95-G-19
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/08/2021	695	1200 [$\mu\text{g}/\text{m}^3$]
2	02/08/2021	847	
3	03/08/2021	826	
4	04/08/2021	592	
5	05/08/2021	749	
6	06/08/2021	590	
7	07/08/2021	681	
8	08/08/2021	628	
9	09/08/2021	738	
10	10/08/2021	803	
11	11/08/2021	669	
12	12/08/2021	674	
13	13/08/2021	816	
14	14/08/2021	739	
15	15/08/2021	583	
16	16/08/2021	669	
17	17/08/2021	720	
18	18/08/2021	794	
19	19/08/2021	615	
20	20/08/2021	587	
21	21/08/2021	559	
22	22/08/2021	538	
23	23/08/2021	689	
24	24/08/2021	671	
25	25/08/2021	692	
26	26/08/2021	663	
27	27/08/2021	821	
28	28/08/2021	584	
29	29/08/2021	573	
30	30/08/2021	759	
31	31/08/2021	722	
Average		687	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-08				Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : OB Dump-4/FDM-6			Model	Enviro RDS / EI 142
Month : August-2021			Serial no	60-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/08/2021	659	1200 ($\mu\text{g}/\text{m}^3$)
2	02/08/2021	582	
3	03/08/2021	726	
4	04/08/2021	598	
5	05/08/2021	541	
6	06/08/2021	683	
7	07/08/2021	669	
8	08/08/2021	726	
9	09/08/2021	582	
10	10/08/2021	813	
11	11/08/2021	843	
12	12/08/2021	573	
13	13/08/2021	694	
14	14/08/2021	557	
15	15/08/2021	538	
16	16/08/2021	683	
17	17/08/2021	552	
18	18/08/2021	674	
19	19/08/2021	805	
20	20/08/2021	582	
21	21/08/2021	694	
22	22/08/2021	673	
23	23/08/2021	553	
24	24/08/2021	549	
25	25/08/2021	736	
26	26/08/2021	719	
27	27/08/2021	528	
28	28/08/2021	539	
29	29/08/2021	649	
30	30/08/2021	571	
31	31/08/2021	662	
Average		644	

Legend:SPM-Suspended Particulate Matter



Authorized Signatory

*Complaints Register is available at Laboratory

JAJANG IRON ORE MINES

AAQ REPORT

SEPTEMBER - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Ambient Air Quality					
Location/Code : Near Mines Office/AAQCZ-1					
Month : September-2021					
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					
Instruments used	Respirable Dust Sampler & Fine dust Sampler				
Model	Enviro RDS / EI 142 & Enviro EI 133				
Serial no	58-K-18 & 89-G-19				
Calibration validity	05/10/2021 & 19/10/2021				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/09/2021	46	16	10.1	11.7	0.44
2	02/09/2021	48	17	9.5	10.8	0.51
3	03/09/2021	51	19	9.9	11.2	0.36
4	04/09/2021	55	20	10.3	11.9	0.55
5	05/09/2021	49	18	8.9	10.4	0.59
6	06/09/2021	44	16	9.1	10.6	0.48
7	07/09/2021	41	14	9.4	10.8	0.52
8	08/09/2021	48	15	8.5	9.9	0.57
9	09/09/2021	40	13	10.6	11.9	0.49
10	10/09/2021	38	12	8.2	9.5	0.41
11	11/09/2021	35	12	9.7	11.2	0.53
12	12/09/2021	33	11	8.8	10.3	0.45
13	13/09/2021	39	13	9.3	10.8	0.61
14	14/09/2021	44	16	8.6	9.9	0.49
15	15/09/2021	49	17	9	10.4	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- NitrogenDioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Near Mines Office/AAQCZ-1				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	58-K-18 & 89-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 3	IS:5182 Part 6	BSET SOP AA-09
16	16/09/2021	54	18	9.8	11.2	0.44
17	17/09/2021	51	17	9.5	10.8	0.61
18	18/09/2021	48	16	10.4	11.7	0.4
19	19/09/2021	51	17	10.1	11.3	0.47
20	20/09/2021	45	15	9.7	11	0.51
21	21/09/2021	43	14	9.3	10.6	0.44
22	22/09/2021	38	13	8.9	10.2	0.37
23	23/09/2021	41	14	8.5	9.8	0.53
24	24/09/2021	47	16	9.6	11.1	0.58
25	25/09/2021	51	17	9.9	11.3	0.63
26	26/09/2021	54	19	10.1	11.5	0.52
27	27/09/2021	49	16	10.7	12.2	0.56
28	28/09/2021	44	15	9.5	10.8	0.49
29	29/09/2021	37	12	10	11.4	0.44
30	30/09/2021	39	13	10.3	11.9	0.52
Average		45	15	9.5	10.9	0.50
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- NitrogenDioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.

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CIN No : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/09/2021	50	18	9.9	11.3	0.54
2	02/09/2021	54	19	10.3	11.9	0.45
3	03/09/2021	58	21	9.5	10.9	0.49
4	04/09/2021	49	17	9.2	10.6	0.41
5	05/09/2021	46	16	10.7	12.2	0.63
6	06/09/2021	42	15	11.1	12.6	0.55
7	07/09/2021	45	16	10.9	12.3	0.58
8	08/09/2021	51	18	10.4	11.7	0.66
9	09/09/2021	43	14	11.3	12.8	0.62
10	10/09/2021	41	13	10.8	12.2	0.57
11	11/09/2021	38	13	10.1	11.6	0.53
12	12/09/2021	32	11	11.2	12.5	0.5
13	13/09/2021	42	15	10.8	12.3	0.46
14	14/09/2021	40	16	11.5	12.9	0.57
15	15/09/2021	53	18	11	12.3	0.41
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Entry & Exit Gate/AAQCZ-2				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS / EI 142 & Enviro EI 133			
Serial no	98-G-19 & 86-G-19			
Calibration validity	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/09/2021	59	21	10.4	11.6	0.53
17	17/09/2021	51	17	9.7	11.2	0.49
18	18/09/2021	45	16	10.9	12.4	0.44
19	19/09/2021	49	18	10.1	11.5	0.61
20	20/09/2021	41	15	9.6	10.9	0.52
21	21/09/2021	41	14	9.2	10.6	0.58
22	22/09/2021	34	11	9	10.3	0.49
23	23/09/2021	39	13	10.6	11.9	0.45
24	24/09/2021	43	16	11.4	12.7	0.53
25	25/09/2021	47	17	11.8	13.3	0.6
26	26/09/2021	42	21	10.7	12.2	0.67
27	27/09/2021	46	19	11.2	12.6	0.59
28	28/09/2021	40	13	11.9	13.3	0.54
29	29/09/2021	35	11	12.1	13.5	0.46
30	30/09/2021	38	12	11.6	13	0.63
Average		45	16	10.6	12.0	0.53
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Guest House Area/AAQCZ-4				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Envirotech APM-460BL & Envirotech APM 550			
Serial no	2852-DTC-15 & 1102-DTC-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/09/2021	39	14	8.5	9.8	0.33
2	02/09/2021	42	15	8.1	9.5	0.39
3	03/09/2021	46	16	7.9	9.2	0.27
4	04/09/2021	44	15	8.8	10.3	0.31
5	05/09/2021	41	14	9.2	10.7	0.42
6	06/09/2021	38	12	9.9	11.2	0.36
7	07/09/2021	35	11	8.3	9.8	0.45
8	08/09/2021	30	10	7.7	9.3	0.4
9	09/09/2021	37	13	8	9.4	0.25
10	10/09/2021	33	11	8.6	9.9	0.29
11	11/09/2021	29	10	9.5	10.9	0.31
12	12/09/2021	36	12	9.1	10.4	0.43
13	13/09/2021	40	13	8.3	9.8	0.22
14	14/09/2021	45	16	7.7	9.2	0.19
15	15/09/2021	47	17	8.9	10.4	0.45
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Ambient Air Quality					
Location/Code : Guest House Area/AAQCZ-4					
Month : September-2021					
Sample Collected by: B.S. Envi Tech (P) Ltd.,					
Instruments used	Respirable Dust Sampler & Fine dust Sampler				
Model	Envirotech APM-460BL & Envirotech APM 550				
Serial no	2852-DTC-15 & 1102-DTC-2012				
Calibration validity	19/10/2021				

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/09/2021	50	18	9.2	10.6	0.37
17	17/09/2021	48	17	9.9	11.3	0.49
18	18/09/2021	44	15	9	10.5	0.41
19	19/09/2021	41	14	10.1	11.6	0.34
20	20/09/2021	36	12	9.3	10.8	0.28
21	21/09/2021	39	11	8.5	9.9	0.4
22	22/09/2021	31	11	7.6	9	0.21
23	23/09/2021	37	12	8.2	9.4	0.44
24	24/09/2021	43	15	7.3	8.8	0.26
25	25/09/2021	50	17	7.9	9.3	0.46
26	26/09/2021	47	19	8.8	10.4	0.5
27	27/09/2021	39	13	9.1	10.6	0.33
28	28/09/2021	34	12	7.5	8.9	0.3
29	29/09/2021	32	11	8.6	9.9	0.41
30	30/09/2021	36	12	9.7	11	0.29
Average		40	14	8.6	10.0	0.35
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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CIN No. : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Near Workshop/AAQCZ-3				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/09/2021	47	16	10.9	12.5	0.59
2	02/09/2021	51	18	11.3	12.7	0.51
3	03/09/2021	55	19	10.4	11.9	0.47
4	04/09/2021	45	15	10.1	11.5	0.55
5	05/09/2021	43	15	9.6	10.9	0.43
6	06/09/2021	40	14	9.9	11.3	0.62
7	07/09/2021	48	16	10.7	12.2	0.49
8	08/09/2021	44	14	10.2	11.6	0.52
9	09/09/2021	39	13	11.5	12.9	0.61
10	10/09/2021	37	12	11.8	13.2	0.57
11	11/09/2021	36	12	10.5	11.8	0.54
12	12/09/2021	30	11	9.8	11.2	0.48
13	13/09/2021	38	14	9.4	10.8	0.45
14	14/09/2021	41	15	9.1	10.6	0.53
15	15/09/2021	58	21	10.3	11.7	0.64
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide


Authorized Signatory

*Complaints Register is available at Laboratory

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 CIN No : U74210TG1999PTC032358



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Near Workshop/AAQCZ-3				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	34-L-17 & 923-DTH-2011			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
16	16/09/2021	33	20	11.6	12.9	0.58
17	17/09/2021	49	19	10	11.4	0.46
18	18/09/2021	41	15	9.6	11	0.62
19	19/09/2021	47	17	10.8	12.2	0.55
20	20/09/2021	40	15	11.2	12.7	0.69
21	21/09/2021	38	13	11.9	13.3	0.62
22	22/09/2021	31	11	9.7	11.2	0.55
23	23/09/2021	36	12	11.5	12.9	0.51
24	24/09/2021	41	14	10.4	11.8	0.45
25	25/09/2021	45	16	11.1	12.6	0.54
26	26/09/2021	52	18	11.6	12.9	0.42
27	27/09/2021	49	16	10.7	12.3	0.56
28	28/09/2021	44	14	11	12.2	0.64
29	29/09/2021	40	13	10.3	11.6	0.5
30	30/09/2021	37	13	11.4	12.8	0.61
Average		43	15	10.6	12.0	0.54
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Jajang Village/AAQBZ-1				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used		Respirable Dust Sampler & Fine dust Sampler		
Model		Enviro RDS/EI 142 & Envirotech APM 550		
Serial no		30-L-17 & 1084-DTB-2012		
Calibration validity		19/10/2021		

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	02/09/2021	45	16	10.1	11.7	0.55
2	03/09/2021	50	18	9.9	11.4	0.48
3	09/09/2021	47	17	10.6	11.9	0.51
4	10/09/2021	38	13	11.3	12.8	0.45
5	16/09/2021	51	18	10.8	12.2	0.59
6	17/09/2021	51	19	11.2	12.6	0.47
7	23/09/2021	42	15	10.4	11.8	0.52
8	24/09/2021	49	17	11	12.2	0.44
Average		47	17	10.6	12.0	0.50
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Ambient Air Quality					
Location/Code : Jaribahal Village/AAQBZ-2					
Month : September-2021					
Sample Collected by: B.S. Envi-Tech (P) Ltd.,					
Instruments used		Respirable Dust Sampler & Fine dust Sampler			
Model		Enviro RDS/EI 142 & Enviro EI 133			
Serial no		33-L-17 & 40-L-17			
Calibration validity		19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/09/2021	53	19	10.9	12.3	0.51
2	07/09/2021	57	21	10.2	11.7	0.47
3	13/09/2021	49	18	11.4	12.8	0.55
4	14/09/2021	54	20	10.8	12.2	0.61
5	20/09/2021	46	16	10.6	11.9	0.52
6	21/09/2021	42	14	9.9	11.2	0.54
7	27/09/2021	58	21	11.1	12.4	0.63
8	28/09/2021	60	22	10.3	11.5	0.57
Average		53	19	10.6	12.0	0.55
NAAQ Standards (24 hourly standard)		100 [µg/m ³]	60 [µg/m ³]	80 [µg/m ³]	80 [µg/m ³]	02 [mg/m ³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Badhuabeda Village/AAQBZ-3				
Month : September-2021				
Sample Collected by: B.S. Envi Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Envirotech APM 550			
Serial no	30-L-17 & 1084-DTB-2012			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	06/09/2021	48	16	9.9	11.4	0.54
2	07/09/2021	52	18	10.3	11.8	0.41
3	13/09/2021	45	15	10.8	12.3	0.58
4	14/09/2021	51	18	9.5	10.8	0.47
5	20/09/2021	41	14	10.1	11.6	0.53
6	21/09/2021	39	13	9.8	11.3	0.45
7	27/09/2021	53	19	10.4	11.7	0.59
8	28/09/2021	55	20	10.7	12.1	0.49
Average		48	17	10.1	11.6	0.50
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)
 PM_{2.5}-Particulate Matter(Size Less than 2.5µm)
 SO₂-Sulphur Dioxide
 NO₂- Nitrogen Dioxide
 CO-Carbon Monoxide



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Ambient Air Quality				
Location/Code : Kamalpur Village/AAQBZ 4				
Month : September-2021				
Sample Collected by: B.S. Envi-Tech (P) Ltd.,				
Instruments used	Respirable Dust Sampler & Fine dust Sampler			
Model	Enviro RDS/EI 142 & Enviro EI 133			
Serial no	33-L-17 & 40-L-17			
Calibration validity	19/10/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BS&T SOP AA-09
1	02/09/2021	36	12	6.9	8.3	0.29
2	03/09/2021	31	11	7.2	8.5	0.35
3	09/09/2021	38	14	7.7	9	0.22
4	10/09/2021	29	10	7.5	8.8	0.31
5	16/09/2021	40	14	7.1	8.4	0.27
6	17/09/2021	37	12	8	9.5	0.39
7	23/09/2021	33	11	7.9	9.3	0.33
8	24/09/2021	39	13	7.4	8.6	0.26
Average		35	12	7.4	8.8	0.30
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m³] (8 hourly)

Legend: PM₁₀-Particulate Matter(Size Less than 10µm)

PM_{2.5}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide



Authorized Signatory

*Complaints Register is available at Laboratory

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JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

SEPTEMBER - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location/Code : Crusher Plant/FDM-1			Model	Enviro RDS / EI 142	
Month : September-2021			Serial no	103-G-19	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/09/2021	580	1200 $[\mu\text{g}/\text{m}^3]$
2	02/09/2021	595	
3	03/09/2021	649	
4	04/09/2021	606	
5	05/09/2021	547	
6	06/09/2021	683	
7	07/09/2021	652	
8	08/09/2021	626	
9	09/09/2021	527	
10	10/09/2021	490	
11	11/09/2021	521	
12	12/09/2021	574	
13	13/09/2021	566	
14	14/09/2021	608	
15	15/09/2021	567	
16	16/09/2021	628	
17	17/09/2021	657	
18	18/09/2021	726	
19	19/09/2021	585	
20	20/09/2021	654	
21	21/09/2021	502	
22	22/09/2021	529	
23	23/09/2021	481	
24	24/09/2021	477	
25	25/09/2021	545	
26	26/09/2021	621	
27	27/09/2021	679	
28	28/09/2021	606	
29	29/09/2021	563	
30	30/09/2021	590	
Average		588	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location/Code : Working Pit Block-B/FDM-2			Model	Enviro RDS / EI 142	
Month : September-2021			Serial no	140-G-20	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	27/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/09/2021	515	1200 [$\mu\text{g}/\text{m}^3$]
2	02/09/2021	560	
3	03/09/2021	612	
4	04/09/2021	577	
5	05/09/2021	495	
6	06/09/2021	627	
7	07/09/2021	606	
8	08/09/2021	551	
9	09/09/2021	444	
10	10/09/2021	404	
11	11/09/2021	426	
12	12/09/2021	498	
13	13/09/2021	523	
14	14/09/2021	556	
15	15/09/2021	508	
16	16/09/2021	599	
17	17/09/2021	613	
18	18/09/2021	644	
19	19/09/2021	523	
20	20/09/2021	551	
21	21/09/2021	441	
22	22/09/2021	478	
23	23/09/2021	396	
24	24/09/2021	425	
25	25/09/2021	469	
26	26/09/2021	561	
27	27/09/2021	617	
28	28/09/2021	537	
29	29/09/2021	511	
30	30/09/2021	560	
Average		528	

Legend:SPM-Suspended Particulate Matter



Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location/Code: Loading Area Block B/FDM-3			Model	Enviro RDS / EI 142	
Month : September-2021			Serial no	61-K-18	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/09/2021	599	1200 $[\mu\text{g}/\text{m}^3]$
2	02/09/2021	626	
3	03/09/2021	651	
4	04/09/2021	678	
5	05/09/2021	619	
6	06/09/2021	677	
7	07/09/2021	696	
8	08/09/2021	605	
9	09/09/2021	593	
10	10/09/2021	540	
11	11/09/2021	577	
12	12/09/2021	586	
13	13/09/2021	549	
14	14/09/2021	631	
15	15/09/2021	610	
16	16/09/2021	642	
17	17/09/2021	688	
18	18/09/2021	757	
19	19/09/2021	636	
20	20/09/2021	619	
21	21/09/2021	522	
22	22/09/2021	576	
23	23/09/2021	531	
24	24/09/2021	548	
25	25/09/2021	537	
26	26/09/2021	649	
27	27/09/2021	640	
28	28/09/2021	561	
29	29/09/2021	522	
30	30/09/2021	591	
Average		610	

Legend:SPM-Suspended Particulate Matter



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : Haul Road CB Block/FDM-4			Model	Enviro RDS / EI 142
Month : September-2021			Serial no	64-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM ($\mu\text{g}/\text{m}^3$)	Standards as per CTO
1	01/09/2021	556	1200 $\mu\text{g}/\text{m}^3$
2	02/09/2021	579	
3	03/09/2021	631	
4	04/09/2021	583	
5	05/09/2021	509	
6	06/09/2021	651	
7	07/09/2021	629	
8	08/09/2021	604	
9	09/09/2021	491	
10	10/09/2021	445	
11	11/09/2021	478	
12	12/09/2021	533	
13	13/09/2021	545	
14	14/09/2021	581	
15	15/09/2021	540	
16	16/09/2021	611	
17	17/09/2021	639	
18	18/09/2021	705	
19	19/09/2021	568	
20	20/09/2021	616	
21	21/09/2021	483	
22	22/09/2021	505	
23	23/09/2021	429	
24	24/09/2021	453	
25	25/09/2021	511	
26	26/09/2021	592	
27	27/09/2021	651	
28	28/09/2021	578	
29	29/09/2021	540	
30	30/09/2021	577	
Average		560	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler	
Location/Code : Screen Plant/PDM-5			Model	Enviro RDS / EI 142	
Month : September-2021			Serial no	95 G-19	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021	

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/09/2021	527	1200 [$\mu\text{g}/\text{m}^3$]
2	02/09/2021	541	
3	03/09/2021	619	
4	04/09/2021	569	
5	05/09/2021	508	
6	06/09/2021	624	
7	07/09/2021	606	
8	08/09/2021	591	
9	09/09/2021	485	
10	10/09/2021	511	
11	11/09/2021	545	
12	12/09/2021	561	
13	13/09/2021	526	
14	14/09/2021	580	
15	15/09/2021	503	
16	16/09/2021	601	
17	17/09/2021	624	
18	18/09/2021	711	
19	19/09/2021	543	
20	20/09/2021	617	
21	21/09/2021	483	
22	22/09/2021	503	
23	23/09/2021	496	
24	24/09/2021	498	
25	25/09/2021	513	
26	26/09/2021	599	
27	27/09/2021	616	
28	28/09/2021	572	
29	29/09/2021	541	
30	30/09/2021	525	
Average		558	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-09				Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code : OB Dump-4 / FDM-6			Model	Enviro RDS / EI 142
Month : September-2021			Serial no	60-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [$\mu\text{g}/\text{m}^3$]	Standards as per CTO
1	01/09/2021	491	1200 [$\mu\text{g}/\text{m}^3$]
2	02/09/2021	446	
3	03/09/2021	414	
4	04/09/2021	508	
5	05/09/2021	477	
6	06/09/2021	535	
7	07/09/2021	461	
8	08/09/2021	446	
9	09/09/2021	482	
10	10/09/2021	459	
11	11/09/2021	391	
12	12/09/2021	370	
13	13/09/2021	443	
14	14/09/2021	468	
15	15/09/2021	517	
16	16/09/2021	529	
17	17/09/2021	547	
18	18/09/2021	601	
19	19/09/2021	499	
20	20/09/2021	510	
21	21/09/2021	424	
22	22/09/2021	439	
23	23/09/2021	368	
24	24/09/2021	419	
25	25/09/2021	435	
26	26/09/2021	512	
27	27/09/2021	569	
28	28/09/2021	493	
29	29/09/2021	535	
30	30/09/2021	514	
Average		477	

Legend:SPM-Suspended Particulate Matter


Authorized Signatory



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JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

APRIL - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : April
Date : 17.04.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well Jurudi Village	9.91
2.	Dug Well Jajang Village	2.92
3.	Dug Well Kamalpur Village	3.45
4.	Dug Well Jalahari Village	11.46
5.	Dug Well Jaribahal Village	4.18
6.	Dug Well BIL Siding	5.01

For B.S Envi-Tech (P) Ltd.,



Authorised Signatory

*Complaints Register is available At Laboratory.

JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

APRIL – 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSPT/0021/WS-0026	
Project Name : Jangam Iron ore Mines		Lab Code No : 210977004	
Sample Description: Surface Water Sample		Issue Date : 17.04.2021	
Quantity : 1 No. x 50 Ltrs Sample		Your Ref : Letter Dated 05.04.2021	
1 No. x 500 ml Sample (Metals)		Date of Receipt : 16.04.2021	
500 ml Wide mouth Glass bottle for O&G		Date of Registration : 05.04.2021	
1 No. x 250 ml Sample Pre-Sealed Bottle for Metals		Date of commencement of testing : 06.04.2021	
Packaging : Plastic Bottles	Test Required : As given below	Date of completion of testing : 16.04.2021	Sample condition at receipt : Found ok
		Sample tested as received	
Date of Sampling : 02.04.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Ballarant River Ripstream		General Environment conditions: ok.	
		Page No. : 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Condu*	Hazen Units, Max.	IS 3025 (Part-4)	5	300
2.	pH		IS 3025 (Part-11)	6.82	6.5 to 8.5
3.	Total Dissolved solids	mg/l, Max.	IS 3025 (Part-16)	125	1500
4.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part-32)	7	600
5.	Iron (as Fe)	mg/l, Max.	3 rd Ed of APHA 2112 Edition 2017	0.34	50
6.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	24	400
7.	Fluoride (as F)	mg/l, Max.	4500-F-13, APHA 2112 Edition 2017	0.10	1.5
8.	Nitrate (as NO ₃)	mg/l, Max.	4500-NO-15 UV Spectrophotometric Substantive Method	8	50
9.	Copper (as Cu)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	3114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.04	15
12.	Cadmium (as Cd)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.03	0.1
14.	Arsenic (as As)	mg/l, Max.	3114 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max.	4500-CN-6 Colorimetric Method, APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁺⁶)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Ammonia Derivatives (as MBAS)	mg/l, Max.	Ames, Ko-15 15248	<0.1	1
18.	Phenolic Compounds (as C ₁₂ H ₁₀ O)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
19.	BOD (as B ₅)	mg/l	IS 3025 (Part-44)	3	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-38)	5.2	4
21.	Oil & Grease	mg/l, Max.	IS 3025 (Part 19)	< 1	1.1
22.	Total Coliform	Impc/100ml, Max.	IS:1622	285	500

Interpretation of result: Nil. Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mohi)
Environmental Scientist

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSETT202 /WV-00227	
Project Name: Jajang Iron ore Mines		Lab Code No : 210977304	
Sample Description: Surface Water Sample		Issue Date : 17.04.2021	
Quantity : 1 No. x 50 Ltrs Sample		Your Ref : Letter Dated 06.04.2021	
1 No. x 500 ml Sample (Micro)		Date of Receipt : 06.04.2021	
500 ml Wide mouth Glass bottle for O&G		Date of Registration : 05.04.2021	
1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Date of commencement of testing : 06.04.2021	
Packing : Plastic Bottles	Test Required : As given below	Date of completion of testing : 16.04.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Date of Sampling: 02.04.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Bailurani River Downstream		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Units, Max	IS 3025 (Part-4)	05	400
2.	pH	-	IS 3025 (Part-11)	6.75	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-16)	132	1500
4.	Chloride (as Cl)	mg/l, Max	IS 3025 (Part-17)	15	600
5.	Iron (as Fe)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.65	50
6.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part-21)	32	400
7.	Fluoride (as F)	mg/l, Max	1500 F of APHA 23 rd Edition 2017	4.20	1.5
8.	Nitrate (as NO ₃)	mg/l, Max	4500-N of APHA 23 rd Edition 2017	15	50
9.	Copper (as Cu)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max	3114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.04	15
12.	Cadmium (as Cd)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.005	<0.1
13.	Lead (as Pb)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.1	0.1
14.	Arsenic (as As)	mg/l, Max	3114 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max	4500 CN of APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁶⁺)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.05	0.05
17.	Anionic Detergents (as MBAS)	mg/l, Max	Annex K of IS 1244	<0.1	1
18.	Alcohols Compounds (as C ₂ H ₅ OH)	mg/l, Max	IS 3025 (Part-43)	<0.001	0.005
19.	ROD (as O ₂)	mg/l	IS 3025 (Part-44)	4	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-38)	5.2	4
21.	Oil & Grease	mg/l, Max	IS 3025 (Part-39)	< 1	0.1
22.	Total Coliform	(mpn/100ml), Max	IS 3022	365	5000

Interpretation of results: Nil, Deviation from test method: Nil

*** End of the Report ***

*Complaints Register is available at Laboratory

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Authorized Signatory
(C. Chandra Mouli)
Environmental Scientist

JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

APRIL - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : April
Date : 20.04.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) in Meter/Second
1.	Baitarani River	2.211
2.	Suna Nadi	1.125
3.	Kakarpani Nallah	0.463
4.	Jalpa Nadi	0.924

For B.S Envi-Tech (P) Ltd.,


Authorized Signatory


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JAJANG IRON ORE MINES

GROUND WATER QUALITY REPORT

MAY – 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WB-01295	
		Lab Code No : 210920505	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name: Jajung Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 10.05.2021 Location of Sampling: Bore well Kamalpur Village		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: OK Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	—	IS 3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS 3025 -Part-4	< 5	5	15
3.	pH	—	IS:3025- Part-11	6.72	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 Part-21	68	200	600
6.	Iron as Fe	mg/l	3111 B of ALPHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-12	50	250	1000
8.	Total Dissolved Solids @ 105°C	mg/l	IS:3025 - Part-16	208	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	24	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	1.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	26	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	13	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, ALPHA 23 rd Edition 2017	0.42	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	52	200	600

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
(Mr. Chandra Mouli)
Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-0 295	
Project Name: Jajang Iron ore Mines		Lab Code No. : 210920505	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 25.05.2021	
Packaging : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Letter Dated 15.05.2021	
Test Required : As given below		Date of Receipt : 15.05.2021	
		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Bore well Kamalpur Village		General Environment conditions: Ok	
Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B. Curcumin Method. APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	1500-Al B. Erichrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	4.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.005	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3134 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS-1622-1981	Absent	-	-

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-01296	
		Lab Code No. : 210920405	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated : 5.05.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part I	
Location of Sampling: Bare well Jajang Village		General Environment conditions: Ok	
		Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	--	IS:3025 -Part-11	6.83	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	94	200	600
6.	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.09	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	58	250	1000
8.	Total Dissolved Solids @105°C	mg/l	IS:3025 -Part-16	220	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	12	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.4	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	29	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	15	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.36	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	46	200	600

Interpretation of results: Nil, Deviations from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSFT/2021/WS-01296	
Project Name: Jajang Iron ore Mines Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Lab Code No : 210920405	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
		Date of Receipt : 15.05.2021	
		Date of Registration : 15.05.2021	
		Date of commencement of testing : 15.05.2021	
		Date of completion of testing : 24.05.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Sampling Details Date of Sampling: 10.05.2021 Location of Sampling: Bore well Jajang Village Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B, Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	3500-Al B - Eriochrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	1	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS 1622 (98)	Absent	-	-

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : RSET/2021/WS-01297	
		Lab Code No : 2109202HIS	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name : Jajang Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml. Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 14.05.2021 Location of Sampling: Dug well Jiradi Village		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: OK Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	—	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	—	IS:3025 -Part-11	6.88	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	86	200	600
6.	Iron as Fe	mg/l	3111 T of APHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	45	250	1000
8.	Total Dissolved Solids @105°C	mg/l	IS:3025 -Part-16	206	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	28	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	31	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	17	45	No Relaxation
13.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.42	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	50	200	600

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Name & Address of the Customer : M/r. JSW Steel Limited		Test Report No. : BSFT/2021/WS-01297	
		Lab Code No : 210920305	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 20 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration : 15.05.2021	
		Date of commencement of testing : 15.05.2021	
		Date of completion of testing : 24.05.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Dug well Jajang Village		General Environment conditions: Ok	
		Page No: 2 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 th Edition 2017	< 0.10	0.5	2.4
16.	Aluminum as Al	mg/l	1500-Al B. Erichrome Cyanite R Method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.005	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 21 st Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-01296	
		Lab Code No : 210920205	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name: Jajam Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 10.05.2021 Location of Sampling: Bore well Jaluhari Village		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	--	IS:3025 -Part-11	6.69	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	50	210	600
6.	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	42	250	1000
8.	Total Dissolved Solids @105°C	mg/l	IS:3025 -Part-16	198	540	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	16	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	2.4	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	20	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	13	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.45	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	58	200	600

Interpretation of results: Nil. Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-01298	
Project Name: Jajam Iron ore Mines		Lab Code No : 210920205	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Litre Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 25.05.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Letter Dated 15.05.2021	
Test Required : As given below		Date of Receipt : 15.05.2021	
		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 14.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Bore well Jajam Village		General Environment conditions: Ok	
		Page No: 2 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B. Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	3500-Al B - Eriochrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	3	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS 1622 - 1984	Absent		

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : ISI/702021/W/S-31299	
Project Name: Jajang Iron ore Mines		Lab Code No : 210920105	
Sample Description: Ground Water Sample		Issue Date : 25.05.2021	
Qty : 1 No. x 2.0 Ltrs Sample		Your Ref : Letter Dated 15.05.2021	
1 No. x 500 ml Sample (Metals)		Date of Receipt : 15.05.2021	
1 No. x 250 ml Sample (Microbiology)		Date of Registration : 15.05.2021	
Packing : Plastic Bottle & Pre-sterilized Bottle		Date of commencement of testing : 15.05.2021	
Test Required : As given below		Date of completion of testing : 24.05.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Sampling Details			
Date of Sampling: 11.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Tap Water Near Jajang Village		General Environment conditions: Ok	
Page No: 1 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	—	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	—	IS:3025 -Part-11	6.77	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:1025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	56	200	600
6.	Iron as Fe	mg/l	3111 Bar APHA 23 rd Edition 2017	0.09	1.0	No Relaxation
7.	Chlorides as Cl ⁻	mg/l	IS:3025 -Part-32	38	250	1000
8.	Total Dissolved Solids (at 100°C)	mg/l	IS:3025 -Part-16	202	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	20	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	1.5	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	32	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	18	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.41	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	50	200	600

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSE/T/2021/W/S-01299	
Project Name: Jajang Iron ore Mines		Lab Code No : 210920/05	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Issue Date : 25.05.2021	
Packaging : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Letter Dated 15.05.2021	
Test Required : As given below		Date of Receipt : 15.05.2021	
		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Tap Water Near Jajang Village		General Environment conditions: Ok	
		Page No: 2 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500 B B Circumina Method. APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	3500 Al B - Erichrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-01300	
		Lab Code No. : 210920005	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated : 15.05.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
<p align="center"><u>Sampling Details</u></p> <p>Date of Sampling: 10.05.2021 Sampling Method/Procedure: IS 3025 Part 1 Location of Sampling: Dug well Near BIL Shing General Environment conditions: Ok Page No: 1 of 2</p>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	—	IS:3025 -Part 5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part 4	< 5	5	15
3.	pH	—	IS:3025 -Part-11	6.81	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	52	200	600
6.	Iron as Fe	mg/l	3111 Bar APHA 23 rd Edition 2017	0.08	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	44	250	1000
8.	Total Dissolved Solids @105°C	mg/l	IS:3025 -Part-16	196	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	18	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	1.7	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-34	25	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -R 1/97 Spectrophotometric Screening Method	13	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D ₂ APHA 23 rd Edition 2017	0.29	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	56	200	600

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BSEI/2021/WS-01240	
		Lab Code No : 210920005	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 15.05.2021	
Sample Description: Ground Water Sample Qty : 1 No x 2.0 Ltrs Sample 1 No x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details Date of Sampling: 10.05.2021 Location of Sampling: Dug well Near BII, Siding			
Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B, Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	1500-Al B, Erichrome Cyanine R method	< 0.02	0.02	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 21 st Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3113 B of APHA 21 st Edition 2017	< 0.02	0.1	0.2
19.	Selenium as Se	mg/l	3114 C of APHA 21 st Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 21 st Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 21 st Edition 2017	< 0.005	0.005	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 21 st Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 21 st Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 21 st Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 21 st Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1988	Absent		

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

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JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

MAY - 2021



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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : May
Date : 19.05.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well Jurudi Village	10.02
2.	Dug Well Jajang Village	3.04
3.	Dug Well Kamalpur Village	3.56
4.	Dug Well Jalahari Village	11.61
5.	Dug Well Jaribahal Village	4.33
6.	Dug Well BIL Siding	5.15

For B.S Envi-Tech (P) Ltd.,


Authorized Signatory



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JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

MAY – 2021



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : HSE/12021/WS-02293	
Project Name: Bajajpura Iron ore Mines		Lab Code No : 210921045	
Sample Description: Surface Water Sample		Issue Date : 15/05/2021	
Quantity : 1 No. x 500 Ltrs Sample		Year Ref : Letter Dated 15.05.2021	
1 No. x 500 ml Sample (Metals)		Date of Receipt : 15.05.2021	
1 No. x 500 ml Wide mouth Glass bottle for O&G		Date of Registration	15.05.2021
1 No. x 250 ml Sample Pre-sterilized Bottle for Micro		Date of commencement of testing	15.05.2021
Packing : Plastic Bottles		Date of completion of testing	24.05.2021
Test Required : As given below		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part I	
Location of Sampling: Rajgarh River Upstream		General Environment conditions: ok	
		Page No. of	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	5	300
2.	pH	-	IS 3025 (Part-11)	6.52	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-15)	124	1500
4.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part-32)	9.0	600
5.	Iron (as Fe)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.29	50
6.	Sulphates (as SO ₄)	mg/l, Max.	IS 3025 (Part-21)	28	400
7.	Fluoride (as F)	mg/l, Max.	4505-F of APHA 23 rd Edition 2017	0.17	1.5
8.	Nitrites (as NO ₂)	mg/l, Max.	4500-NO ₂ -B of APHA 23 rd Edition 2017	9.6	50
9.	Copper (as Cu)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	3114 B of APHA 23 rd Edition 2017	<0.03	0.03
11.	Zinc (as Zn)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.04	15
12.	Cadmium (as Cd)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l, Max.	3114 C of APHA 23 rd Edition 2017	<0.03	0.2
15.	Cyanide (as CN)	mg/l, Max.	4500-CN E, Colorimetric Method, APHA 23 rd Edition 2017	<0.02	0.25
16.	Chromium (as Cr ^{VI})	mg/l, Max.	4111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Ammonic Dichromate (as NH ₄ SCN)	mg/l, Max.	Annex K of IS 30248	<0.1	1
18.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	3	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-38)	5.3	4
21.	HCl & Freebase	mg/l, Max.	IS 3025 (Part-39)	< 1	0.1
22.	Total Coliform	(mpn/100ml), Max.	IS 1672	280	5000

Interpretation of results: Nil, Deviation from test method: Nil

*** End of the Report ***



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. BSE/2021/WA-01291	
		Lab Code No. 210020005	
		Issued Date : 25/05/2021	
		Year Ref : 1 Later Date: 15/05/2021	
Project Name: Jigging Iron ore Mines		Date of Receipt : 15/05/2021	
Sample Description: Surface Water Sample		Date of Registration : 25/05/2021	
Quantity : 1 No. x 500 ml Sample (Metal)		Date of commencement of testing : 15/05/2021	
1 No. x 500 ml Sample (Metal)		Date of completion of testing : 24/05/2021	
1 No. x 500 ml Wide mouth glass bottle for QAC		Sample condition at receipt : Found ok	
1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Sample tested as received	
Packing : Plastic Bottles			
Test Required : As given below			
Sampling Details			
Date of Sampling: 08/05/2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Ballarum River Near Narsim		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Apex Units Max	IS 3025 (Part-4)	10	300
2.	pH	-	IS 3025 (Part-11)	6.70	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-16)	152	1500
4.	Chloride (as Cl)	mg/l, Max	IS 3025 (Part-32)	14	500
5.	Iron (as Fe)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.16	30
6.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part-24)	31	400
7.	Ammonia (as N)	mg/l, Max	4500 F D APHA 23 rd Edition 2017	0.21	1.5
8.	Nitrate (as NO ₃)	mg/l, Max	4500 NO ₃ B I, V Spectrophotometric Screening Method	15	50
9.	Copper (as Cu)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max	3114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.05	1
12.	Cadmium (as Cd)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	<0.1	0.1
14.	Arsenic (as As)	mg/l, Max	3112 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max	4500 CN E Colorimetric Method APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁶⁺)	mg/l, Max	3111 B of APHA 23 rd Edition 2017	0.05	0.05
17.	Anionic Detergents (as MBAS)	mg/l, Max	Apex Kit IS 13248	<0.1	1
18.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l, Max	IS 3025 (Part-41)	<0.001	<0.05
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	6	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-31)	4.9	4
21.	Oil & Grease	mg/l, Max	IS 3025 (Part-36)	<1	0.1
22.	Total Coliform	Imp/100ml, Max	IS 1522	300	500

Interpretation of result: Nil Deviation from test method Nil

*** End of the Report ***

*Complaints Register is available at Laboratory





B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : M/s. BSW Steel Limited		Test Report No. : BSE/2021/MS-0292	
		Lab Code No. : 210520MS	
		Issue Date : 25.05.2021	
		Your Ref : Letter Dated 15.05.2021	
Project Name: Lajang Iron ore Mines		Date of Receipt : 15/05/2021	
Sample Description: Surface Water Sample		Date of Registration	15/05/2021
Quantity : 1 No. x 500 ml Sample (Metals)		Date of commencement of testing	15/05/2021
1 No. x 500 ml Wide mouth Glass bottle for CaCO ₃		Date of completion of testing	24/05/2021
1 No. x 250 ml Sample Pre Sterilized Bottle for Micro		Sample condition at receipt	Found ok
Packaging : Plastic Bottles		Sample tested as received	
Test Required : As given below			
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Nung Nall		General Environment conditions: ok	

Page Two of 6

Page No. 1 of 1

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	10	300
2.	pH	-	IS 3025 (Part-11)	6.97	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-16)	154	1500
4.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part-32)	10	600
5.	Iron (as Fe)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	0.24	50
6.	Sulphates (as SO ₄)	mg/l, Max.	IS 3025 (Part-26)	25	400
7.	Fluoride (as F)	mg/l, Max.	4506 F-13 APHA 23 rd Edition 2017	0.02	1.5
8.	Nitrate (as NO ₃)	mg/l, Max.	4500-NH-B UV Spectrophotometric Screening Method	8.5	50
9.	Copper (as Cu)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	5114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	0.03	15
12.	Cadmium (as Cd)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l, Max.	5114 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max.	4500-CN-E, Colorimetric Method APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁶⁺)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Anionic Detergents (as MBAS)	mg/l, Max.	Annex K of IS 13248	<0.1	1
18.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l, Max.	IS 3025 (Part-45)	<0.001	0.005
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-34)	2	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-36)	5.6	4
21.	Oil & Grease	mg/l, Max	IS 3025 (Part-39)	<1	0.5
22.	Total Coliform	(mpn/100ml), Max.	IS 1622	50	5000

Interpretation of results: Nil. Deviation from test method: Nil

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. BSW Steel Limited		Test Report No. : BS/17/2022/MS-01240	
		Lab Code No : 210920705	
		Issue Date : 25.05.2022	
		Year Ref : Letter Dated 15.05.2021	
		Date of Receipt : 15.05.2022	
Project Name: Lajpata Iron ore Mines		Date of Registration	15.05.2021
Sample Description: Surface Water Sample		Date of commencement of testing	15.05.2021
Quantity : 1 No. x 500 ml Sample (Meat)		Date of completion of testing	21.05.2022
1 No. x 500 ml Wide mouth Glass bottle for (Meat)		Sample condition at receipt	Found as
1 No. x 250 ml Sample Pre Sterilized Bottle for Micro		Sample tested as received	
Packing : Plastic Bottles			
Test Required : As given below			
Sampling Details			
Date of Sampling: 19.05.2022		Sampling Method/Procedure: IS 3025 Part-1	
Location of Sampling: Kaluranga Nallah		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	10	300
2.	pH	-	IS 3025 (Part-1)	6.78	5.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-16)	138	1500
4.	Chloride (as Cl ⁻)	mg/l, Max.	IS 3025 (Part-37)	85	100
5.	Iron (as Fe)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.34	50
6.	Sulphates (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	20	400
7.	Fluoride (as F ⁻)	mg/l, Max.	4400-F D, APHA 23 rd Edition 2017	0.15	1.5
8.	Nitrates (as NO ₃)	mg/l, Max.	4500-NO ₃ -B JV Spectrophotometric Screening Method	9.8	50
9.	Copper (as Cu)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	3114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.02	15
12.	Cadmium (as Cd)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.1	0.1
14.	Arsenic (as As)	mg/l, Max.	3114 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN ⁻)	mg/l, Max.	4500-CN-F, Cyanide Method, APHA 23 rd Edition 2017	<0.02	0.25
16.	Chromium (as Cr ⁶⁺)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Anionic Detergents (as MBAS)	mg/l, Max.	Annex E of IS 3243	<0.1	1
18.	Phenolic Compounds (as C ₁₂ H ₁₀ O)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	1	5
20.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-48)	5.3	4
21.	Oil & Grease	mg/l, Max.	IS 3025 (Part-59)	< 1	0.1
22.	Total Coliform	(mpn/100ml), Max.	IS 1622	90	5000

Interpretation of results: Nil, Deviation from yst method: Nil

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. ASW Steel Limited		Test Report No. : BS/ET/2021/06/5-01291	
		Lab Code No. : 200470605	
		Issue Date : 25.05.2021	
		Your Ref. : Letter Dated 15.05.2021	
Project Name : Rajang Iron ore Mines		Date of Receipt : 17.05.2021	
Sample Description: Surface Water Sample (Quantity : 1 No. x 5.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 200 ml Wide mouth Glass bottle for O&G 1 No. x 250 ml Sample Pre Sterilized Bottle for Micro) Packing : Plastic Bottles Test Required : As given below		Date of Registration	15.05.2021
		Date of commencement of testing	15.05.2021
		Date of completion of testing	24.05.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 10.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Jalpa Nagi		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S No.	Test Parameter	Units	Test Method	Result	Limit for Streams Water Standards
1.	Colour	Hazen Jones Max.	IS 3025 (Part-1)	10	500
2.	pH	-	IS 3025 (Part-1)	6.68	6.5 to 8.5
3.	Total Dissolved Solids	mg/l Max.	IS 3025 (Part-10)	182	1000
4.	Chloride (as Cl ⁻)	mg/l Max.	IS 3025 (Part-22)	15	600
5.	Iron (as Fe)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	0.27	50
6.	Sulphates (as SO ₄)	mg/l Max.	IS 3025 (Part-24)	32	400
7.	Fluoride (as F ⁻)	mg/l Max.	4500-E of APHA 23 rd Edition 2017	0.18	3
8.	Nitrates (as NO ₃)	mg/l Max.	4500-NO ₃ -1 UV Spectrophotometric Screening Method	10	50
9.	Copper (as Cu)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.0
10.	Selenium (as Se)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	0.02	15
12.	Cadmium (as Cd)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l Max.	3111 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN ⁻)	mg/l Max.	4500-CN-1, Columnar Method, APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁶⁺)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Aromatic Hydrocarbons (as MeHA)	mg/l Max.	Annex B of IS 13245	<0.1	1
18.	Phenolic Compounds (as C ₁₂ H ₁₀ O ₄)	mg/l Max.	IS 3025 (Part-13)	<0.001	0.005
19.	HCO ₃ (as O-1)	mg/l	IS 3025 (Part-14)	3	5
20.	Dissolved Oxygen (as O ₂)	mg/l Min.	IS 3025 (Part-18)	5.2	4
21.	Oil & Grease	mg/l Max.	IS 3025 (Part-19)	< 1	0.1
22.	Total Calcium	mg/l/100 ml Max.	IS 1622	90	5000

Interpretation of results: N = Deviation from test method. Nil

*** End of the Report ***

*Complaints Register is available at Laboratory



JAJANG IRON ORE MINES

WASTE WATER QUALITY REPORT

MAY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto August, 2022

TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WW-01289	
Project Name: Jajang Iron ore Mines		Lab Code No : 210921105	
Sample Description: Waste Water Sample		Issue Date : 25.05.2021	
Qty : 1 No. x 2.0 ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology)		Your Ref : Letter Dated 15.05.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Date of Receipt : 15.05.2021	
Test Required : As given below		Date of Registration : 15.05.2021	
		Date of commencement of testing : 15.05.2021	
		Date of completion of testing : 24.05.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Date of Sampling: 10/05/2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: STP Inlet Water		General Environment conditions: Ok	
		Page No: 1 of 1	

TEST RESULTS

S. No	Test Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.R. 422(E)-1993
1	pH	---	IS:3025- Part-11	7.32	5.5 - 9.0
2	Oil & Grease	mg/l	IS:3025- Part-39	18	10
3	Total Suspended Solids	mg/l	IS:3025- Part-17	242	100
4	Total Dissolved Solids @ 105°C	mg/l	IS:3025- Part-16	1620	2100
5	BOD for 3days at 27°C	mg/l	IS:3025- Part-44	310	30
6	COD	mg/l	IS:3025- Part-58	760	250

*** End of the Report ***



Authorized Signatory
(G.Chandra Mouli)
Environmental Scientist

*Complaints Register is available at Laboratory

JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

MAY - 2021



B.S. ENVI - TECH PVT. LTD.
Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : May
Date : 18.05.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) in Meter/Second
1.	Baitarani River	2.162
2.	Suna Nadi	1.056
3.	Kakarpani Nallah	0.418
4.	Jalpa Nadi	0.877

For B.S Envi-Tech (P) Ltd.,


Authorised Signatory


*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

JUNE - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : June
Date : 21.06.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well Jurudi Village	9.81
2.	Dug Well Jajang Village	2.79
3.	Dug Well Kamalpur Village	3.38
4.	Dug Well Jalahari Village	11.28
5.	Dug Well Jaribahal Village	4.02
6.	Dug Well BIL Siding	4.91

For B.S. Envi-Tech (P) Ltd.,



Authorized Signatory

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JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

JUNE – 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BS/1502/PWS-01/19	
Project Name: Jajang Iron ore Mines		Lab Code No : 210878136	
Sample Description: Surface Water Sample		Issue Date : 17.06.2021	
Quantity : 1 No. x 500 ml Sample		Your Ref : Letter Dated 09.06.2021	
1 No. x 500 ml Sample (Metals)		Date of Receipt : 09.06.2021	
1 No. x 500 ml Wide mouth Glass Bottle for DMG		Date of Registration : 09.06.2021	
1 No. x 250 ml Sample Pre-sterilized Bottle for Micro		Date of commencement of testing : 09.06.2021	
Packing : Plastic Bottles		Date of completion of testing : 16.06.2021	
Test Required : As given below		Sample condition at receipt : Found ok	
		Sample tested as received	
Sampling Details			
Date of Sampling: 04.06.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Udayan River Upstream		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	5	100
2.	pH	-	IS 3025 (Part-11)	6.13	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-16)	112	1500
4.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part-12)	80	400
5.	Iron (as Fe)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	0.24	50
6.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	22	400
7.	Fluoride (as F)	mg/l, Max.	4380-B of APHA 23 rd Edition 2017	0.08	1.5
8.	Nitrate (as NO ₃)	mg/l, Max.	4300-NO ₃ -B of V Spectrophotometric Reducing Method	0.3	50
9.	Copper (as Cu)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	5114 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	0.03	15
12.	Cadmium (as Cd)	mg/l, Max.	5111 C of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l, Max.	5114 C of APHA 23 rd Edition 2017	<0.01	0.3
15.	Cyanide (as CN)	mg/l, Max.	4500-CN F, Colorimetric Method, APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ^{VI})	mg/l, Max.	5111 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Organic Phosphorus (as MBAS)	mg/l, Max.	Annex K of IS 3025	<0.1	1
18.	Preble's Condensate (as P.C.O.D)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-17)	4	3
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-16)	5.2	6
21.	Oil & Grease	mg/l, Max.	IS 3025 (Part-39)	<4	0
22.	Total Coliform	Imp/100ml, Max.	IS 1522	220	5000

Interpretation of results: No. Description from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

*** End of the Report ***

*Complaints Register is available at Laboratory.

TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited		Test Report No. : BSE-I/2021/WS-01740	
		Lab Code No. : 210875000	
		Issue Date : 17.06.2021	
		Your Ref. : Letter Dated 09.06.2021	
Project Name : Jajigar Iron ore Mines		Date of Receipt : 04.06.2021	
Sample Description: Surface Water Sample		Date of Registration : 09.06.2021	
Quantity : 1 No. x 50 ltrs Sample		Date of commencement of testing : 09.06.2021	
1 No. x 500 ml Sample (Vials):		Date of completion of testing : 16.06.2021	
1 No. x 500 ml Wide mouth Glass bottle for O&G		Sample condition at receipt : Found ok	
1 No. x 250 ml Sample Pre Sterilized Bottle for Micro.		Sample tested as received	
Packing : Plastic Bottles			
Test Required : As given below			
Sampling Details			
Date of Sampling : 04.06.2021		Sampling Method/Procedure : IS 1025 Part 1	
Location of Sampling : Bailaram River Downstream		General Environmental conditions : ok	

Page No. 1 of 1

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Tokur	Hazen Units. Max	IS 1025 (Part-4)	10	30H
2.	pH	-	IS 3025 (Part-11)	6.99	6.5 to 8.5
3.	Total Dissolved Solids	mg/l. Max	IS 3025 (Part-16)	136	1500
4.	Chloride (as Cl)	mg/l. Max.	IS 3025 (Part-12)	12	60H
5.	Iron (as Fe)	mg/l. Max.	3111 B of APHA 21 st Edition 2017	0.35	50
6.	Sulphate (as SO ₄)	mg/l. Max	IS 3025 (Part-24)	30	400
7.	Fluoride (as F)	mg/l. Max.	4500-B of APHA 23 rd Edition 2017	0.23	1.5
8.	Nitrates (as NO ₃)	mg/l. Max	4500-NO ₃ -B 11V Spectrophotometric Screening Method	14	50
9.	Copper (as Cu)	mg/l. Max	3111 B of APHA 21 st Edition 2017	<0.01	1.5
10.	Selenium (as Se)	mg/l. Max	3114 B of APHA 23 rd Edition 2017	<0.01	0.15
11.	Zinc (as Zn)	mg/l. Max	3111 B of APHA 21 st Edition 2017	0.04	15
12.	Cadmium (as Cd)	mg/l. Max	3111 B of APHA 21 st Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l. Max	3111 B of APHA 21 st Edition 2017	<0.1	0.1
14.	Arsenic (as As)	mg/l. Max.	3114 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l. Max	4500-CN E, Colorimetric Method APHA 23 rd Edition 2017	<0.01	0.15
16.	Chromium (as Cr ⁶⁺)	mg/l. Max	3111 B of APHA 23 rd Edition 2017	0.05	0.05
17.	Antonie Detergents (as MBAS)	mg/l. Max.	Annex K of IS 15149	<0.1	1
18.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l. Max.	IS 3025 (Part-42)	<0.001	0.005
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	5	5
20.	Dissolved Oxygen (as O ₂)	mg/l. Min	IS 3025 (Part-56)	4.0	4
21.	Oil & Grease	mg/l. Max	IS 3025 (Part-59)	<1	0.1
22.	Total Coliform	(mpc/100ml) Max	IS 1622	280	5000

normalization of results: Nil, Derivation from 109 method: Nil

End of the Report 227

*Complaints Register is available at Laboratory.

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CIN No. : J74210TG1949PTC032356



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : SDA JSW Steel Limited		Test Report No. : BSE/2021/WS-01741	
		Lab Code No : 130879906	
		Issue Date : 17.06.2021	
		Your Ref : Letter Dated 09/06/2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 09/06/2021	
Sample Description: Surface Water Sample Quantity : 1 No. x 500 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 500 ml Wide mouth Glass bottle for O&G 1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Date of Registration	04/06/2021
		Date of commencement of testing	09/06/2021
		Date of completion of testing	16/06/2021
		Sample condition at receipt	Fresh ok
Packing : Plastic Bottles		Sample tested as received	
Test Required : As given below			
<u>Sampling Details</u>			
Date of Sampling: 04.06.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Suda Nadi		General Environmental conditions: ok	
		Page No. : 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Results	Limits for Surface Water Standards
1.	Colour	Hazen Units Max.	IS 3025 (Part-4)	10	200
2.	pH	-	IS 3025 (Part-11)	6.84	6.5 to 8.5
3.	Total Dissolved Solids	mg/l. Max.	IS 3025 (Part 16)	142	1500
4.	Chloride (as Cl)	mg/l. Max.	IS 3025 (Part-12)	9.5	600
5.	Iron (as Fe)	mg/l. Max.	311 B of APHA 23 rd Edition 2017	0.21	50
6.	Sulphates (as SO ₄)	mg/l. Max.	IS 3025 (Part-24)	27	400
7.	Fluoride (as F)	mg/l. Max.	4500 C of APHA 23 rd Edition 2017	0.14	1.5
8.	Nitrites (as NO ₂)	mg/l. Max.	4500 D of APHA 23 rd Edition 2017	0.9	50
9.	Copper (as Cu)	mg/l. Max.	311 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l. Max.	3114 H of APHA 23 rd Edition 2017	<0.01	11.05
11.	Zinc (as Zn)	mg/l. Max.	311 B of APHA 23 rd Edition 2017	0.04	1.5
12.	Chromium (as Cr)	mg/l. Max.	311 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l. Max.	311 B of APHA 23 rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l. Max.	3119 C of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l. Max.	4500 C of APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ^{VI})	mg/l. Max.	311 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Anionic Detergents (as MBA5)	mg/l. Max.	Annex. K of IS 3025	<0.1	1
18.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l. Max.	IS 3025 (Part-43)	<0.001	11.065
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	3	1
20.	Dissolved Oxygen (as O ₂)	mg/l. Min	IS 3025 (Part-45)	5.4	4
21.	Oil & Grease	mg/l. Max.	IS 3025 (Part-19)	<1	11.1
22.	Total Coliform	Impr/100ml Max	IS:1622	70	5000

Interpretation of results: Nil, Deviation from test method: Nil

*** End of the Report ***

*Complaints Register is available at Laboratory

Authorized Signatory
J.C. Chandra Mohan
Environmental Scientist



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSFT/2021/W/S-01742	
Project Name: Bajajg Irrigation Minus		Lab Code No : 210815M06	
Sample Description: Surface Water Sample		Issue Date : 17.06.2021	
Quantity : 1 No. x 500 ml Sample (Metals)		Your Ref : Letter Dated 06/06/2021	
1 No. x 500 ml Wide mouth Glass bottle for L&D		Date of Receipt : 09/06/2021	
1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Date of Registration : 07/06/2021	
Packing : Plastic Bottles	Test Required : As given below	Date of commencement of testing	19/06/2021
		Date of completion of testing	18/06/2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 04/06/2021		Sampling Method/Procedure: IS: 3025 Part 1	
Location of Sampling: Katurgani Nalligh		General Environment conditions: ok	
		Page No. of 1	

TEST RESULTS

S. No	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	10	500
2	pH	-	IS 3025 (Part-11)	6.68	6.5 to 8.5
3	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-16)	124	1500
4.	Chloride (as Cl ⁻)	mg/l, Max.	IS 3025 (Part-32)	4.0	600
5	Iron (as Fe)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	0.26	50
6.	Sulphates (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	24	400
7.	Fluoride (as F ⁻)	mg/l, Max.	4500 B of APHA 23 rd Edition 2017	0.17	1.5
8.	Nitrates (as NO ₃)	mg/l, Max.	4500 B of APHA 23 rd Edition 2017	10	50
9.	Copper (as Cu)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	0.03	15
12.	Cadmium (as Cd)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.1	0.1
14	Arsenic (as As)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max.	4500 B of APHA 23 rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ⁶⁺)	mg/l, Max.	511 B of APHA 23 rd Edition 2017	<0.02	0.05
17.	Aromatic Amines (as MBAS)	mg/l, Max.	Annex. K of IS 11249	<0.1	1
18	Phenolic Compounds (as C ₁₂ H ₁₀ O)	mg/l, Max.	IS 3025 (Part-41)	<0.001	0.005
19	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	4	5
20	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-34)	5.2	4
21.	Oil & Grease	mg/l, Max	IS 3025 (Part-36)	<1	10
22	Total Coliform	mpn (100ml) Max.	IS:1622	110	5000

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
G. Chandra Mohan
Environmental Scientist

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSE/2021/WS-0143	
Project Name: Lajang Iron ore Mines		Lab Code No. : 21062105	
Sample Description: Surface Water Sample		Issue Date : 17.06.2021	
Quantity : 1 No. x 5.0 ltrs Sample		Your Ref. : Letter Dated 19.06.2021	
1 No. x 500 ml Sample (Metal)		Date of Receipt : 09.06.2021	
1 No. x 500 ml Wide mouth Glass bottle for H&G		Date of Registration : 09.06.2021	
1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Date of completion of testing : 16.06.2021	
Packing : Plastic Bottles	Test Required : As given below	Sample condition at receipt	Fould ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 04.06.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Jalpa Nadi		General Environment condition: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Color	Hazen Units, Max.	IS 3025 (Part-4)	11	100
2.	pH	-	IS 3025 (Part-11)	6.75	6.5 to 8.5
3.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-16)	164	1500
4.	Chloride (as Cl)	mg/l, Max	IS 3025 (Part-12)	12	600
5.	Iron (as Fe)	mg/l, Max	311 B of APHA 23rd Edition 2017	0.25	50
6.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	20	400
7.	Fluoride (as F)	mg/l, Max.	4500-F.D. APHA 23rd Edition 2017	0.16	1.5
8.	Nitrates (as NO ₃)	mg/l, Max	HV Spectrophotometric Screening Method	9.5	50
9.	Copper (as Cu)	mg/l, Max.	311 B of APHA 23rd Edition 2017	<0.02	1.5
10.	Selenium (as Se)	mg/l, Max.	311 B of APHA 23rd Edition 2017	<0.01	0.05
11.	Zinc (as Zn)	mg/l, Max	311 B of APHA 23rd Edition 2017	0.03	12
12.	Cadmium (as Cd)	mg/l, Max	311 B of APHA 23rd Edition 2017	<0.003	<0.1
13.	Lead (as Pb)	mg/l, Max.	311 B of APHA 23rd Edition 2017	<0.01	0.1
14.	Arsenic (as As)	mg/l, Max.	311 C of APHA 23rd Edition 2017	<0.01	0.2
15.	Cyanide (as CN)	mg/l, Max.	4500 CN F, Columnar Method, APHA 23rd Edition 2017	<0.02	0.05
16.	Chromium (as Cr ^{VI})	mg/l, Max	311 B of APHA 23rd Edition 2017	<0.04	0.05
17.	Aromatic Detergents (as MEAS)	mg/l, Max	Annex. K of IS 3249	<0.1	1
18.	Phenolic Compounds (as C ₁₂ H ₁₀ O ₂)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.015
19.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	2	1
20.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-38)	5.4	4
21.	Oil & Grease	mg/l, Max	IS 3025 (Part-39)	<1	0.1
22.	Total Coliform	(mpn/100ml), Max.	IS 1622	60	<500

Interpretation of results: No Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

*** End of the Report ***

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JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

JUNE - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : June
Date : 28.06.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) in Meter/Second
1.	Baitarani River	2.277
2.	Suna Nadi	1.212
3.	Kakarpani Nallah	0.494
4.	Jalpa Nadi	0.939

For B.S. Envi-Tech (P) Ltd.,



Authorised Signatory

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JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

JULY - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : July
Date : 21.07.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well Jurudi Village	8.22
2.	Dug Well Jajang Village	2.15
3.	Dug Well Kamalpur Village	2.89
4.	Dug Well Jalahari Village	9.77
5.	Dug Well Jaribahal Village	3.41
6.	Dug Well B/L Siding	4.06

For B.S Envi-Tech (P) Ltd.,


Authorised Signatory


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JAJANG IRON ORE MINES

SURFACE RUN OFF ANALYSIS REPORT

JULY – 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSE/17/02/2022/07830	
Project Name: Jaisang Iron ore Mines		Lab Code No : 210707007	
Sample Description: Surface Run off Water Sample		Issue Date : 07.04.2021	
Quantity : 1 No. x 500 ml Sample (1 No. x 500 ml Sample - Metals)		Visit No : 1 (Visit Dated 24.07.2021)	
1 No. x 500 ml Water sample (1 No. x 500 ml Water sample - O&G)		Date of Receipt : 25.07.2021	
1 No. x 250 ml Sample For Sterilized Bottle For Micro		Date of Registration : 26.07.2021	
Packing : Plastic Bottles		Date of commencement of testing : 29.07.2021	
Test Required : As given below		Date of completion of testing : 06.08.2021	
		Sample condition at receipt : as received	
		Sample tested as received	
<p align="center">Sampling Details</p> <p>Date of Sampling: 26.07.2021 Sampling Method/Procedure: IS 3025 Part 1 Location of Sampling: Water Check Dam near Jaisang Railway Station General Environment condition: ok Page No. 1 of 1</p>			

TEST RESULTS

S. No.	Test Parameters	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Unit, Max.	IS 3025 (Part-1)	14	100
2.	pH	-	IS 3025 (Part-11)	6.69	5.5 to 9.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-11)	72	—
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-11)	214	1500
5.	Chloride (Cl ⁻)	mg/l, Max.	IS 3025 (Part-12)	10	100
6.	Sulphate (SO ₄ ²⁻)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	0.28	50
7.	Sulphate (as SO ₄ ²⁻)	mg/l, Max.	IS 3025 (Part-24)	22	450
8.	Fluoride (F ⁻)	mg/l, Max.	4500 F.U. of APHA 21 st Edition 2017	0.19	1.5
9.	Nitrate (as NO ₃ ⁻)	mg/l, Max.	4500 N.U. of UV Spectrophotometry, Screening Method	15	50
10.	Copper (as Cu)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	0.02	1.5
11.	Manganese (as Mn)	mg/l	111.11 of APHA 21 st Edition 2017	0.03	—
12.	Selenium (as Se)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	0.04	1
14.	Calcium (as Ca)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	<0.005	<1
15.	Lead (as Pb)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	<0.01	0.2
17.	Cyanide (as CN ⁻)	mg/l, Max.	4500 C.U. of Colorimetric Method, APHA 21 st Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max.	111.11 of APHA 21 st Edition 2017	<0.02	0.05
19.	Arsenic Determinate (as AsH ₃)	mg/l, Max.	Arsox, I.C.T. 512219	<0.1	1
20.	Phenols, Compounds (as C ₆ H ₅ OH)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
21.	COB	mg/l	IS 3025 (Part-39)	12	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part-44)	5	1
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-38)	5.1	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part-19)	<1	1
25.	Total Coliform	Colony Forming Unit, Max.	IS 1672	30	500

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
 (C. Chandra Mouli)
 Environmental Scientist

*Complaints Register is available at Laboratory
 End of the Report

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JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

JULY – 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS/17002/WS-01400	
Project Name: Jajajaj Jajajajajajaj		Lab Code No. : 10000000	
Sample Description: Surface Water Sample		Issue Date : 15/07/2021	
Quantity : 1 No. x 500 ml Sample		Year Ref : 15/07/2021	
1 No. x 100 ml Sample (Metals)		Date of Receipt : 05/07/2021	
1 No. x 500 ml Wide mouth Glass bottle for G&D		Date of Registration : 05/07/2021	
1 No. x 250 ml Sample Pre Sterilized Bottle For Micro		Date of commencement of testing : 05/07/2021	
Packing : Plastic bottles		Date of completion of testing : 14/07/2021	
Test Required : As given below		Sample condition at receipt : Found ok	
		Sample tested as received	
Sampling Details			
Date of Sampling: 02/07/2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Dularani River & stream		General Environmental conditions: ok Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Stream Water Standards
1.	Colour	Hazen Units, Max	IS 3025 (Part-1)	5	500
2.	pH	-	IS 3025 (Part-1)	6.71	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	26	—
4.	Total Dissolved Solids	mg/l Max.	IS 3025 (Part-1)	104	500
5.	Chloride (as Cl ⁻)	mg/l Max.	IS 3025 (Part-2)	9.0	500
6.	Iron (as Fe)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	0.28	50
7.	Sulphate (as SO ₄)	mg/l Max.	IS 3025 (Part-2)	16	400
8.	Fluoride (as F ⁻)	mg/l Max.	4500-B of APHA 23 rd Edition 2017	0.12	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	4500-NO ₃ -B C.V Spectrophotometric Screening Method	4.5	50
10.	Copper (as Cu)	mg/l, Max.	1111 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	1111 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	3104 B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	1111 B of APHA 23 rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l, Max.	1111 B of APHA 23 rd Edition 2017	<0.003	<0.1
15.	Lead (as Pb)	mg/l, Max.	1111 B of APHA 23 rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	3104 B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as C _N)	mg/l, Max.	4500-C _N -B C.V Spectrophotometric Method, APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max.	1111 B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Anionic Detergents (as LAS)	mg/l, Max.	Ames, A. et al 1994	<0.1	1
20.	Phenolic Compound- (as C ₆ H ₅ OH)	mg/l Max.	IS 3025 (Part-4)	<0.001	0.005
21.	COB	mg/l	IS 3025 Part 44	26	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part-4)	4	5
23.	Free and Chlorine (as Cl ₂)	mg/l, Min	IS 3025 (Part-19)	5.4	4
24.	Oil & Grease	mg/l Max.	IS 3025 (Part-19)	<1	0.1
25.	Total Coliform	(mpn/100ml) Max.	IS 3025	170	500

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
Y. G. Chandra Mouli
Environmental Scientist

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End of the Report



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS/1702/WS-07/2021	
		Lab Code No. : 2085 PMT	
		Issue Date : 15.07.2021	
		Your Ref. : Letter Head (S.D) 2021	
		Date of Receipt : 05.07.2021	
Project Name: Jaipur Iron ore Mines		Date of Registration	05.07.2021
Sample Description: Surface Water Sample		Date of commencement of testing	05.07.2021
Quantity : 1 No. x 100 ml Sample (Mc 200)		Date of completion of testing	14.07.2021
1 No. x 200 ml Sample (Mc 200)		Sample condition at receipt	Fresh
1 No. x 100 ml Wide mouth Glass bottle for C&G		Sample tested as received	
1 No. x 250 ml Sample Pb, Sterilized Bottle For Micro			
Packing : 2 glass bottles			
Test Required : As given below			
Sampling Details			
Date of Sampling : 02.07.2021		Sampling Method/Procedure: IS 1025 Part 1	
Location of Sampling: Ballarath River Downstream		General Environment conditions: ok Page No. 1 of 1	

TEST RESULTS

S No.	Test Parameter	Units	Test Method	Result	Limit for Surface Water Standards
1.	Colour	Hazen Units, Mgs	IS 1025 (Part-4)	14	500
2.	pH	-	IS 1025 (Part-11)	6.62	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 1025 (Part-12)	38	—
4.	Total Dissolved Solids	mg/l, Max.	IS 1025 (Part-10)	126	1000
5.	Calcium (as Ca)	mg/l, Max.	IS 1025 (Part-12)	15	100
6.	Iron (as Fe)	mg/l, Max.	3111 B of ALPHA 20 th Edition 2017	0.12	50
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 1025 (Part-11)	24	400
8.	Fluoride (as F)	mg/l, Max.	4500-F11, ALPHA 25 th Edition 2017	0.21	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4500-NO ₃ -01, UV Spectrophotometric Screening Method	13	50
10.	Copper (as Cu)	mg/l, Max.	3111 B of ALPHA 20 th Edition 2017	<0.02	1.5
11.	Manganese as Mn	mg/l	3111 B of ALPHA 25 th Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	3114 B of ALPHA 20 th Edition 2017	<0.01	0.25
13.	Zinc (as Zn)	mg/l, Max.	3111 B of ALPHA 25 th Edition 2017	0.04	1
14.	Chromium (as Cr)	mg/l, Max.	3111 B of ALPHA 25 th Edition 2017	<0.01	<0.1
15.	Lead (as Pb)	mg/l, Max.	3111 B of ALPHA 25 th Edition 2017	<0.1	0.1
16.	Arsenic (as As)	mg/l, Max.	3111 B of ALPHA 25 th Edition 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l, Max.	4500-CN-01, Colorimetric Method, ALPHA 20 th Edition 2017	<0.02	0.05
18.	Chlorine (as Cl)	mg/l, Max.	3111 B of ALPHA 25 th Edition 2017	0.05	0.05
19.	Antimony (as Sb)	mg/l, Max.	Annex C of IS 11243	<0.1	1
20.	Phenols Compounds (as C ₆ H ₅ OH)	mg/l, Max.	IS 1025 (Part-43)	<0.001	<0.05
21.	COB	mg/l	IS 1025 (Part-54)	44	—
22.	BOD (as O ₂)	mg/l	IS 1025 (Part-44)	6	5
23.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 1025 (Part-13)	4.9	4
24.	Td & Limbic	mg/l, Max	IS 1025 (Part-19)	<1	0.1
25.	Total Coliform	mpn/100ml, Max.	IS:1622		5000

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
G. Chandra Mouli
Environmental Scientist

*Complains Register of the Lab

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSE/2021/MS-0182	
Project Name : Rajang Improvise Mines		Lab Code No. : 210031001	
Sample Description: Surface Water Sample		Issue Date : 15.07.2021	
Quantity : 1 No. x 500 ml Sample		Year Ref : 1 (over Validity 01/2021)	
1 No. x 500 ml Sample (Metal)		Date of Receipt : 05.07.2021	
1 No. x 500 ml Sample (Non-Metal)		Date of Registration : 05.07.2021	
1 No. x 500 ml Sample (Water Quality)		Date of commencement of testing : 06.07.2021	
Packaging : Plastic Bottles		Date of completion of testing : 14.07.2021	
Test Required : As given below		Sample condition as receipt : Found ok	
		Sample tested as received	
Sampling Details			
Date of Sampling : 02.07.2021		Sampling Method/Temperature : IS 3025 Part 1	
Location of Sampling : Anna Nadi River		General Environment condition : ok	
		Page No. : of 1	

TEST RESULTS

S. No.	Test Parameter	Unit	Test Method	Result	Limits for Surface Water Standards
1.	Colour	Hazen (mN, Max)	IS 3025 (Part-1)	10	500
2.	pH	-	IS 3025 (Part-1)	6.79	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	42	—
4.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-1)	130	500
5.	Chloride (as Cl)	mg/l, Max	IS 3025 (Part-2)	10.0	1000
6.	Iron (as Fe)	mg/l, Max	3.1. B of APHA 22 nd Edition 2017	0.18	50
7.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part-2)	28	400
8.	Fluoride (as F)	mg/l, Max	4500.7 D, APHA 22 nd Edition 2017	0.16	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	4500.7 D, APHA 22 nd Edition 2017	9.2	50
10.	Copper (as Cu)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	311. B of APHA 22 nd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max	311. B of APHA 22 nd Edition 2017	0.04	15
14.	Cadmium (as Cd)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.003	<0.1
15.	Lead (as Pb)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.01	—
17.	Cyanide (as CN)	mg/l, Max	4500.7 D, APHA 22 nd Edition 2017	<0.02	0.05
18.	Chromium (as Cr)	mg/l, Max	311. B of APHA 22 nd Edition 2017	<0.02	0.05
19.	Ammonia Nitrogen (as NH ₃ -N)	mg/l, Max	APHA 22 nd Edition 2017	<0.1	1
20.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l, Max	IS 3025 (Part-1)	<0.001	0.005
21.	CUPR	mg/l	IS 3025 (Part-1)	24	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part-1)	3	3
23.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part-1)	5.5	4
24.	DH & Conduct	mg/l, Max	IS 3025 (Part-1)	<1	0.1
25.	Total Coliform	Colony/100 ml	IS 3025	60	5000

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(C. Chandra Mouli)
Environmental Scientist

*Complaints Register is available at Laboratory

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TEST REPORT

Name & Address of the Client: M/s. JSW Steel Limited		Test Report No.: BSPT/2021/WSR/006	
Project Name: Anjanga Iron ore Mines		Lab Code No.: 2.053177	
Sample Description: Surface Water Sample		Issue Date: 15.07.2021	
Quantity: 1 No. x 500 ml Sample (Metal); 1 No. x 500 ml White mouth glass bottle for COD; 1 No. x 250 ml Sample Pre-Separated Bottle for Metals		Year Ref.: Refer Date 05.07.2021	
Packing: Plastic bottles		Date of Receipt: 15.07.2021	
Test Required: As given below		Date of Registration:	05.07.2021
		Date of commencement of testing:	06.07.2021
		Date of completion of testing:	14.07.2021
		Sample condition at receipt:	Good ok
		Sample tested as required	
Sampling Details			
Date of Sampling: 02.07.2021		Sampling Method/Procedure: IS 1025 Part 1	
Location of sampling: Kalyandurg, Nellore		General Environment conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Plat. Units. Max	IS 3025 (Part-4)	10	200
2.	pH	-	IS 3025 (Part-1)	6.62	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025- Part-12	40	—
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-6)	116	1500
5.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part-12)	8.5	600
6.	Iron (as Fe)	mg/l, Max.	Y.T.T. B of APHA 23 rd Edition 2017	0.24	50
7.	Sulphates (as SO ₄)	mg/l, Max.	IS 3025 (Part-24)	24	400
8.	Fluoride (as F)	mg/l, Max.	4500-F D APHA 23 rd Edition 2017	0.38	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4500-NO ₃ B 1997 Spectrophotometric Screening Method	9.8	50
10.	Copper (as Cu)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	N.T.T. B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	0.02	15
14.	Chromium (as Cr)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.001	<0.1
15.	Lead (as Pb)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.1	0.1
16.	Arsonic (as As)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l, Max.	4500-CN E. C. Amometric Method, APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max.	N.T.T. B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Amoxiclin Detergent (as MBAS)	mg/l, Max.	Amox. Kit IS-534E	<0.1	1
20.	Permanganate Consumable (as KMnO ₄)	mg/l, Max.	IS 3025-Part-12	<0.001	0.005
21.	COD	mg/l	IS 3025-Part-5B	36	—
22.	BOD (as O ₂)	mg/l	IS 3025-Part-14	5	1
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-5A)	5.3	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part-59)	<1	0.1
25.	Total Calcium	mg/l (ppm), Max.	IS 1522	—	500

Interpretation of results: Nil, Deviations from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

*Complaints Register is available at Laboratory.

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : HSE/2021/W-41984	
Project Name : Japung Iron ore Mines		Lab Code No. : 2045499	
Sample Description: Surface Water Sample		Issue Date : 15.07.2021	
Quantity : 1 No. x 500 Ltrs Sample		Year Ref : 1 year from 15.07.2021	
1 No. x 500 ml Sample (Mouss)		Date of Receipt : 05.07.2021	
1 No. x 500 ml Wide mouth Glass bottle for O&G		Date of Registration : 15.07.2021	
1 No. x 250 ml Sample Pte Sterilized Bottle For Micro		Date of commencement of testing : 06.07.2021	
Packing : Plastic 304 SS		Date of completion of testing : 14.07.2021	
Test Required : As given below		Sample condition at receipt : Fined ok	
		Sample tested as received	
Date of Sampling: 02.07.2021		Sampling Method/Procedure: IS 1025 Part 1	
Location of Sampling: Japung Nauli		General Environmental conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Surface Water Standards
1.	Colour	Hazen (Umg. Mgs.	IS 1025 Part 41	14	100
2.	pH	-	IS 1025 (Part-11)	6.75	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 1025 Part 11	58	—
4.	Total Dissolved Solids	mg/l, Mgs.	IS 1025 (Part-16)	144	1500
5.	Chloride (as Cl ⁻)	mg/l, Max.	IS 1025 (Part-22)	12	1000
6.	Iron (as Fe)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	0.25	50
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 1025 (Part-24)	20	400
8.	Fluoride (as F ⁻)	mg/l, Max.	4500 (SI 11 B of APHA 23 rd Edition 2017)	0.16	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4500 (SI 11 B of APHA 23 rd Edition 2017)	9.5	50
10.	Copper (as Cu)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	SI 11 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.01	0.01
13.	Zinc (as Zn)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	0.03	15
14.	Cadmium (as Cd)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.003	<0.1
15.	Lead (as Pb)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l, Max.	4500 (SI 11 B of APHA 23 rd Edition 2017)	<0.02	0.05
18.	Chromium (as Cr)	mg/l, Max.	SI 11 B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Antonie Debarge (as MIBAS)	mg/l, Max.	Annex K of IS 15249	<0.1	1
20.	Pesticide Compounds (as C ₁₂ H ₁₀ O ₅)	mg/l, Max.	IS 1025 (Part-42)	<0.001	0.005
21.	ClO ₂	mg/l	IS 1025 Part 54	12	—
22.	BOD (as O ₂)	mg/l	IS 1025 (Part-44)	3	1
23.	Dissolved Oxygen (as O ₂)	mg/l Min	IS 1025 (Part-76)	5.6	4
24.	Oil & Grease	mg/l, Max	IS 1025 (Part-37)	<1	0.1
25.	Total Chlorine	Equivalent mg/l, Max	IS:1622	40	5000

Interpretation of results: Nil, Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

*Complete Results is available at Laboratory

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JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

JULY - 2021



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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : July
Date : 28.07.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) in Meter/Second
1.	Baitarani River	2.581
2.	Suna Nadi	1.357
3.	Kakarpani Nallah	0.705
4.	Jalpa Nadi	1.157

For B.S Envl-Tech (P) Ltd.,


Authorised Signatory


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JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

AUGUST - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : August
Date : 19.08.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well in Jurudi Village	7.88
2.	Dug Well in Jajang Village	2.03
3.	Dug Well in Kamalpur Village	2.69
4.	Dug Well in Jalahari Village	9.54
5.	Dug Well in Jaribahal Village	3.15
6.	Dug Well in BIL Siding	3.94

For B.S. Envi-Tech (P) Ltd.,



Authorized Signatory

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JAJANG IRON ORE MINES

GROUND WATER QUALITY REPORT

AUGUST – 2021



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSEI/2021/WS-03691	
Project Name: Jajang Iron ore Mines		Lab Code No : 210689908	
Sample Description: Ground Water Sample		Issue Date : 28.08.2021	
Qty : 1 No. x 20 Ltrs Sample		Your Ref : Letter Dated 16.08.2021	
1 No. x 500 ml Sample (Metals)		Date of Receipt : 16.08.2021	
1 No. x 250 ml Sample (Microbiology)		Date of Registration : 16.08.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Date of commencement of testing : 17.08.2021	
Test Required : As given below		Date of completion of testing : 28.08.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
Sampling Details			
Date of Sampling: 12.08.2021		Sampling Method/Procedure: IS 5025 Part 1	
Location of Sampling: Bare well Kamalpur Village		General Environment conditions: Ok	
		Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable Limits	Permissible Limits in absence of alternative source
1.	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Plazen	IS:3025 -Part-1	< 5	5	15
3.	pH	--	IS:3025 -Part-11	6.67	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	71	200	600
6.	Iron as Fe	mg/l	3 rd Ed of APHA 23 rd Edition 2017	0.08	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	56	250	1000
8.	Total Dissolved Solids at 105°C	mg/l	IS:3025 -Part-16	218	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	24	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	2.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	31	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	15	45	No Relaxation
13.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.43	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	44	300	600

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : HSE/12021/WS-03400	
		Lab Code No : 2106K9508	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated : 16.08.2021	
Project Name: Jajung Iron ore Mines		Date of Receipt : 16.08.2021	
Sample Description: Ground Water Sample Qty : 1 No x 2.0 ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details Date of Sampling: 12.08.2021 Location of Sampling: Bore well Kamalpur Village Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500-B B Curcumin Method. APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	3500-Al B - Eriochrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.1
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3112 C of APHA 23 rd Edition 2017	< 0.003	0.001	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	2111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1991	Absent	-	-

Interpretation of Results: Nil. Deviation From test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : HSF/2021/W5-026012	
Project Name: Jajang Iron ore Mines		Lab Code No. : 210689808	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 29.08.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Order Dated: 16.08.2021	
Test Required : As given below		Date of Receipt : 16.08.2021	
		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
<p align="center">Sampling Details</p> <p>Date of Sampling: 12.08.2021 Sampling Method/Procedure: IS:3025 Part 1 Location of Sampling: Bore well Jajang Village General Environment conditions: Ok</p> <p align="right">Page No: 1 of 2</p>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	—	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazer	IS:3025 -Part-4	< 5	5	15
3.	pH	—	IS:3025 -Part-11	6.81	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	86	200	600
6.	Iron as Fe	mg/l	3111 B-ol APHA 23 rd Edition 2017	0.11	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	60	250	1000
8.	Total Dissolved Solids @ 18.5°C	mg/l	IS:3025 -Part-16	242	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	28	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	34	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	16	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F O ₂ APHA 23 rd Edition 2017	0.38	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	52	200	600

Interpretation of results: Nil. Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-03612	
		Lab Code No. : 210689808	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated 16.08.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 16.08.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
<div style="display: flex; justify-content: space-between;"> <div> Date of Sampling: 12.08.2021 Location of Sampling: Bare well Jajang Village </div> <div> Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 2 of 2 </div> </div>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Barium as Ba	mg/l	4500.B.B Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	4500 Al B - Erlichmore Cyanine R method	< 0.02	0.05	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.005	0.005	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		

Interpretation of results: Nil. Deviation from test method: Nil



Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSEF-2021/WS-03603	
Project Name: Lajang Iron ore Mines		Lab Code No. : 210689708	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 28.08.2021	
Packag : Plastic Bottle & Pre Sterilized Bottle		Your Ref : Letter Dated 16.08.2021	
Test Required : As given below		Date of Receipt : 16.08.2021	
		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Date of Sampling: 12.08.2021 Location of Sampling: Dug well Jundi Village		Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 1 of 2	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	--	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	--	IS:3025 -Part-11	6.86	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	76	240	600
6.	Iron as Fe	mg/l	3111 B of APHA 23rd Edition 2017	0.08	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-12	49	250	1000
8.	Total Dissolved Solids (at 105°C)	mg/l	IS:3025 -Part-16	220	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	24	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	3.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	28	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B I/V Spectrophotometric Screening Method	21	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23rd Edition 2017	0.44	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	56	200	600

Interpretation of results: Nil. Deviation from test method: Nil

Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSEI/2021-9540/1604	
		Lab Code No. : 210689608	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated 16.08.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 16.08.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 20 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration : 16.08.2021	
		Date of commencement of testing : 17.08.2021	
		Date of completion of testing : 28.08.2021	
		Sample condition at receipt : Found ok	
		Sample tested as received	
<div style="display: flex; justify-content: space-between;"> <div> Date of Sampling: 12.08.2021 Location of Sampling: Bore well Jalahari Village </div> <div> Sampling Details Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 1 of 2 </div> </div>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10510:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	ppm	IS:3025 -Part-3	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3	pH	ppm	IS:3025 -Part-11	6.64	6.5-8.5	No Relaxation
4	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	50	200	600
6.	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.09	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	48	250	1000
8.	Total Dissolved Solids @ 105°C	mg/l	IS:3025 -Part-16	202	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-43	16	75	200
10	Magnesium as Mg	mg/l	IS:3025 -Part-46	2.4	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	21	200	400
12	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	13	45	No Relaxation
13.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.42	1	15
14	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	54	200	600

Interpretation of results: Nil. Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS/ET/2021/W/S-03604	
Project Name: Lajung Iron ore Mines		Lab Code No : 210689608	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 28.08.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Letter Dated 16.08.2021	
Test Required : As given below		Date of Receipt : 16.08.2021	
		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details			
Date of Sampling: 12.08.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Bore well Jahhari Village		General Environment conditions: Ok	
Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500 RB Cationic Method, APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	2500 AL D Enrichment Cyanine R method	< 0.01	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.5
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	1	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.002	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	4 FU/100ml	IS: 1621 - 1985	Absent		

Interpretation of results: Nil. Deviation from test method: Nil.


 Authorized Signatory
 (G. Chandra Mohli)
 Environmental Scientist

--- End of the Report ---

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TEST REPORT

Name & Address of the Customer : Mrs. JSW Steel Limited		Test Report No. : BSET/2021/WS-07605	
Project Name : Jajang Iron ore Mines		Lab Code No. : 210689508	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltr Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology)		Issue Date : 28.08.2021	
Packing : Plastic Bottle & Pre-Sterilized Bottle		Your Ref : Letter Dated 16.08.2021	
Test Required : As given below		Date of Receipt : 16.08.2021	
		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
<p align="center">Sampling Details</p> <p>Date of Sampling: 12.08.2021 Sampling Method/Procedure: IS 3025 Part 1 Location of Sampling: Tap Water Near Jajang Village General Environment conditions: OK Page No. : 01/2</p>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	ppm	IS:3025 -Part-3	Agreeable	Agreeable	Agreeable
2.	Colour	Hazen	IS:3025 -Part-4	< 5	5	15
3.	pH	ppm	IS:3025 -Part-11	6.74	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	62	200	600
6.	Iron as Fe	mg/l	3.11 B of APHA 23 rd Edition 2017	0.08	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	42	250	1000
8.	Total Dissolved Solids @105°C	mg/l	IS:3025 -Part-16	194	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	20	75	300
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	2.9	30	100
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	25	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B 1/V Spectrophotometric Screening Method	14	45	No Relaxation
13.	Fluoride as F ⁻	mg/l	4500-F D, APHA 23 rd Edition 2017	0.47	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	48	200	600

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

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TEST REPORT

Name & Address of the Customer - M/s. JSW Steel Limited		Test Report No. : BSET/2021/WS-03606	
		Lab Code No : 210689408	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated 16.08.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 16.08.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 Ltrs Sample 1 No x 500 ml Sample (Metals) 1 No x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre-Sterilized Bottle Test Required : As given below		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details Date of Sampling: 12.08.2021 Location of Sampling: Dug well near BII, Siding Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 1 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
1.	Odour	°	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	Placen	IS:3025 -Part-4	< 5	5	15
3.	pH	°	IS:3025 -Part-11	6.72	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	< 1	1	5
5.	Total Hardness as CaCO ₃	mg/l	IS:3025 -Part-21	68	200	600
6.	Iron as Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7.	Chlorides as Cl	mg/l	IS:3025 -Part-32	46	250	1000
8.	Total Dissolved Solids @ 180°C	mg/l	IS:3025 -Part-16	218	500	2000
9.	Calcium as Ca	mg/l	IS:3025 -Part-40	24	75	200
10.	Magnesium as Mg	mg/l	IS:3025 -Part-46	1.9	30	300
11.	Sulphate as SO ₄	mg/l	IS:3025 -Part-24	28	200	400
12.	Nitrate as NO ₃	mg/l	4500-NO ₃ -B UV Spectrophotometric Screening Method	15	45	No Relaxation
13.	Fluoride as F	mg/l	4500-F D, APHA 23 rd Edition 2017	0.42	1	1.5
14.	Total Alkalinity as CaCO ₃	mg/l	IS:3025 -Part-23	60	200	600

Interpretation of results: Nil. Deviation from test method: Nil



Authorized Signatory
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Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BSCT/2021/WS-01606	
		Lab Code No. : 210689408	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated : 6.08.2021	
Project Name: Jajang Iron ore Mines		Date of Receipt : 16.08.2021	
Sample Description: Ground Water Sample Qty : 1 No. x 2.0 ltr Sample 1 No. x 500 ml Sample (Metals) 1 No. x 250 ml Sample (Microbiology) Packing : Plastic Bottle & Pre Sterilized Bottle Test Required : As given below		Date of Registration	16.08.2021
		Date of commencement of testing	17.08.2021
		Date of completion of testing	28.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Details Date of Sampling: 12.08.2021 Location of Sampling: Dig well near B.H. siding Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok Page No: 2 of 2			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Requirement as per IS 10500:2012	
					Acceptable limits	Permissible limits in absence of alternative source
15.	Boron as B	mg/l	4500 B B Curcumin Method. APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	mg/l	3500 Al B - Erichrome Cyanine R method	< 0.02	0.03	0.2
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19.	Selenium as Se	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	mg/l	3111 B of APHA 23 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22.	Lead as Pb	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
23.	Mercury as Hg	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	mg/l	3114 C of APHA 23 rd Edition 2017	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 C of APHA 23 rd Edition 2017	< 0.02	0.05	No Relaxation
26.	Total Coliforms	CFU/100ml	IS: 1622 - 1981	Absent		

Interpretation of results: Nil, Deviation from test method: Nil



Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

--- End of the Report ---

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JAJANG IRON ORE MINES

SURFACE RUN OFF ANALYSIS REPORT

AUGUST – 2021



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TEST REPORT

Name & Address of the Customer : M/s. JNV Steel Limited		Test Report No. : BSE/2021/Water/0001	
Project Name : Jagan Red Iron Mines		Batch No. : 21096120K	
Sample Description: Soil Sample Water Sample		Issue Date : 18/08/2021	
Quantity : 1 No. x 500 ml Sample (Metal)		Year Mtd : 18/08/2021	
1 No. x 500 ml Wide mouth Glass bottle for Soil		Date of Receipt : 18/08/2021	
1 No. x 250 ml Sample Pb, Sr, Cd Bottle for Metal		Date of Registration : 19/08/2021	
Packaging : Paving Packs		Date of commencement of testing : 19/08/2021	
Test Required : As per below		Date of completion of testing : 25/08/2021	
		Sample condition at receipt : Finedish	
		Sample tested as received	
Sampling Details			
Date of Sampling : 16/08/2021		Sampling Method/Procedure : IS 3025 Part 1	
Location of Sampling : Water Check Dam near Jagan Railway Station		General Environment condition : ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Standard Water
1.	Colour	High, Haze, Mgt	IS 3025 Part 11	10	500
2.	pH	-	IS 3025 Part 11	6.64	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 Part 11	56	---
4.	Total Dissolved Solids	mg/l, Max	IS 3025 Part 16	198	1500
5.	Chloride (as Cl ⁻)	mg/l, Max	IS 3025 Part 32	20	600
6.	Iron (as Fe)	mg/l, Max	1111 B of APHA 25 th Edition 2017	0.24	65
7.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 Part 34	27	400
8.	Fluoride (as F ⁻)	mg/l, Max	4500 B of APHA 25 th Edition 2017	0.22	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	4500 B of APHA 25 th Edition 2017	19	50
10.	Copper (as Cu)	mg/l, Max	3111 B of APHA 25 th Edition 2017	0.07	1.5
11.	Manganese (as Mn)	mg/l	3111 B of APHA 25 th Edition 2017	0.02	---
12.	Selenium (as Se)	mg/l, Max	3111 B of APHA 25 th Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max	3111 B of APHA 25 th Edition 2017	0.03	15
14.	Cadmium (as Cd)	mg/l, Max	3111 B of APHA 25 th Edition 2017	<0.001	<0.1
15.	Lead (as Pb)	mg/l, Max	3111 B of APHA 25 th Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max	3111 B of APHA 25 th Edition 2017	<0.01	0.2
17.	Cyanide (as CN ⁻)	mg/l, Max	4500 CN of APHA 25 th Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max	3111 B of APHA 25 th Edition 2017	<0.02	0.05
19.	Organic Residues (as Meq/L)	mg/l, Max	Annex K of IS 17024	<0.1	1
20.	Phenolic Compounds (as 1,1,1,1-T)	mg/l, Max	IS 3025 Part 45	<0.001	0.025
21.	CO ₂	mg/l	IS 3025 Part 58	16	---
22.	BOD (as O ₂)	mg/l	IS 3025 Part 46	5	5
23.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 Part 38	5.3	4
24.	Ca & Magnesium	mg/l, Max	IS 3025 Part 39	<1	0.1
25.	Total Chlorine	mg/l, 100ml Max	IS 3022	10	5000

Interpretation of results: Nil. Deviation from test method: Nil

Authorized Signatory
(G. Chandrasekhara)
Environmental Scientist

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JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

AUGUST – 2021



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS/12502/2021/0000000000	
Project Name: Jajigar Iron ore Mines		Lab Code No. : 2100000000	
Sample Description: Surface Water Sample		Issue Date : 28.08.2021	
Quantity : 1 No. x 500 ml Sample		Year Ref : 1 (Self Based IN & R 210)	
1 No. x 500 ml Sample (Menu)		Date of Receipt : 18.08.2021	
1 No. x 500 ml Whole month (as per order)		Date of Registration : 18.08.2021	
1 No. x 250 ml Sample for surface water (as per order)		Date of commencement of testing : 17.08.2021	
Packing : Plastic bottles		Date of completion of testing : 28.08.2021	
Test Required : As given below		Sample condition at receipt : Found as	
		Sample tested as received	
Date of sampling: 12.08.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Rudram River Upstream		General Environment condition: ok	
		Page No. : 2/1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Surface Water Standards
1.	Color	Pt-Co. max. Max	IS 3025 (Part-1)	10	200
2.	pH		IS 3025 (Part-1)	6.68	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	24	100
4.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-1)	132	500
5.	Calc. Solids (TSS)	mg/l, Max	IS 3025 (Part-1)	20	80
6.	Iron (as Fe)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	0.25	50
7.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part-1)	18	400
8.	Chloride (as Cl)	mg/l, Max	4500-B (Ed. Jan 2017)	0.17	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	4500-NO ₃ -H (Ed. Jan 2017)	9.1	50
10.	Copper (as Cu)	mg/l, Max	UV Spectrophotometer Screening Method	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111-B (Ed. Jan 2017)	<0.02	—
12.	Selenium (as Se)	mg/l, Max	APHA 214.3 (Ed. Jan 2017)	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max	APHA 214.3 (Ed. Jan 2017)	0.03	15
14.	Cadmium (as Cd)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	<0.003	0.1
15.	Cobalt (as Co)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	<0.01	0.1
16.	Nickel (as Ni)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	<0.01	0.2
17.	Cyanide (as C.N)	mg/l, Max	4500-CN (Ed. Jan 2017)	<0.02	100
18.	Fluoride (as F)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	<0.02	100
19.	Mercury (as Hg)	mg/l, Max	APHA 211.3 (Ed. Jan 2017)	<0.1	1
20.	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l, Max	IS 3025 (Part-1)	<0.001	1000
21.	CO ₂	mg/l	IS 3025 (Part-1)	40	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part-1)	4	5
23.	Dissolved Oxygen (as O ₂)	mg/l, Vol	IS 3025 (Part-1)	5.5	4
24.	D.O. % Sat	%	IS 3025 (Part-1)	<1	0.1
25.	Total Calcium	(mg/L as CaCO ₃)	IS 3025	130	5000

Interpretation of results: N.T. Deviation from test method: N.T.

*Complete Report available at Laboratory

Authorized Signatory
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Environmental Scientist

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TEST REPORT

Name & Address of the Customer : M/s. BSW Steel Limited		Test Report No. : BSET/2021/065/21503 Lab Code No. : 210650303 Issue Date : 25.04.2021 Year Ref. : 1st Issue Dated 15.04.2020 Date of Receipt : 15.04.2021	
Project Name: Jajmang Iron and Mines		Date of Registration : 16.08.2021	
Sample Description: Surface Water Sample Quantity : 1 No. x 500 ml Sample (Metal); 1 No. x 500 ml Wide Mouth Glass Bottle for Cu/Cd; 1 No. x 250 ml Sample Pre Filtered Bottle for Mn/Mg		Date of commencement of testing : 26.04.2021	
Packing : 1 Plastic Bottle Test Required : As per order		Date of completion of testing : 26.04.2021	
		Sample condition at receipt : 1000 ml	
		Sample used as required	
Date of Sampling: 12.04.2021 Location of Sampling: Baitarani River Downstream		Sampling Method/Procedure: IS 3025 Part 1 General Environment condition: ok.	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Temperature	°C	IS 3025 (Part-1)	15	10°C
2.	pH	-	IS 3025 (Part-1)	6.73	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	14	—
4.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part-1)	154	1500
5.	Total Hardness (CaCO ₃)	mg/l, Max	IS 3025 (Part-1)	25	500
6.	Total Hardness	mg/l, Max	1111 B of APHA 23 rd Edition 2017	0.29	50
7.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part-1)	31	450
8.	Chloride (as Cl ⁻)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	0.24	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	1500 NO ₃ B of UV Spectrophotometric Method	17	50
10.	Copper (as Cu)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	1111 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	0.05	5
14.	Cadmium (as Cd)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	<0.001	0.1
15.	Lead (as Pb)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	<0.1	0.1
16.	Arsenic (as As)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as C ₂ N ₂)	mg/l, Max	1500 CN B of Colorimetric Method APHA 23 rd Edition 2017	<0.02	0.05
18.	Fluoride (as F ⁻)	mg/l, Max	1111 B of APHA 23 rd Edition 2017	0.05	0.05
19.	Ammonia Determined (as NH ₃ -N)	mg/l, Max	Annex K of IS 3025	<0.1	1
20.	Biochemical Oxygen Demand (as BOD ₅)	mg/l, Max	IS 3025 (Part-1)	<0.001	0.005
21.	Chloride	mg/l	IS 3025 (Part-1)	48	—
22.	BOD (as BOD)	mg/l	IS 3025 (Part-1)	7	1
23.	Dissolved Oxygen (as DO)	mg/l, Min	IS 3025 (Part-1)	5.1	2
24.	Oil & Grease	mg/l, Max	IS 3025 (Part-1)	<1	0.1
25.	Total Chromium	mg/l, Max	IS 3025	170	5000

Interpretation of results: Nil, Deviation from 1st method: Nil

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*Complete Register is available at Laboratory

*** End of the Report ***

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BSFT/2021/W/03518	
Project Name: Jaizang Iron ore Mines		Lab Code No : 2-090308	Issue Date : 16.08.2021
Sample Description: Surface Water Sample		Year Ref : Letter Dated 16.08.2021	Date of Receipt : 16.08.2021
Quantity : 1 No. x 500 ml Sample		Date of Registration : 16.08.2021	
1 No. x 500 ml Sample (Metals)		Date of commencement of testing : 17.08.2021	
1 No. x 500 ml Wide mouth Glass bottle for TDS		Date of completion of testing : 28.08.2021	
1 No. x 250 ml Sample for sulphates (Bottle for Metals)		Sample condition at receipt : Found as	
Packing : Plastic bottles		Sample tested as received	
Test Required : As given below			
Date of Sampling: 12/08/2021		Sampling Method/Procedure: IS 1025 Part 1	
Location of Sampling: Sana Nadi River, upstream		General Environmental conditions: ok. Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Stream Water Standards
1.	Colour	Hazen Units, Max	IS 1025 (Part 4)	10	100
2.	pH	-	IS 1025 (Part 1)	6.74	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 1025 Part 17	56	—
4.	Total Dissolved Solids	mg/l, Max	IS 1025 (Part 16)	148	1500
5.	Chloride (Cl ⁻)	mg/l, Max	IS 1025 (Part 32)	12	600
6.	Iron (as Fe)	mg/l, Max	511 B of APHA 23 rd Edition 2017	0.45	30
7.	Sulphates (as SO ₄)	mg/l, Max	IS 1025 (Part 31)	19	400
8.	Fluoride (as F)	mg/l, Max	4500-B of APHA 23 rd Edition 2017	0.47	1.5
9.	Nitrates (as NO ₃)	mg/l, Max	4500-NO ₃ -B of APHA 23 rd Edition 2017	8.8	50
10.	Copper (as Cu)	mg/l, Max	311-B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	311-B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max	3114-B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Copper (as Cu)	mg/l, Max	311-B of APHA 23 rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l, Max	311-B of APHA 23 rd Edition 2017	<0.005	0.1
15.	Lead (as Pb)	mg/l, Max	311-B of APHA 23 rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max	3114-B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as C _N)	mg/l, Max	4500-CN-E, Colorimetric Method, APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max	3111-B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Azonic Detergents (as MBAS)	mg/l, Max	Annex. K of IS 17388	<0.1	1
20.	Phenolic Compounds (as C ₁₂ H ₁₀ O)	mg/l, Max	IS 1025 (Part 43)	<0.001	0.005
21.	COB	mg/l	IS 1025 - Part 38	20	—
22.	BOD (as O ₂)	mg/l	IS 1025 (Part 44)	3	1
23.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 1025 (Part 18)	5.6	4
24.	Oil & Grease	mg/l, Max	IS 1025 (Part 39)	<1	0.1
25.	Total Coliform	Colony Forming Units, Max	IS 1622	50	5000

Interpretation of results: Nil. Deviation from test method: Nil.

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TEST REPORT

Name & Address of the Customer : BSNL West Limited		Test Report No. : BSPT-2021/W5-01827	
Project Name: Jajang Iron ore Mines		Lab Code No : 20202308	
Sample Description: Surface Water Sample		Issue Date : 28.08.2021	
Quantity : 1 No. x 500 ml Sample (Metals)		Year Ref : Letter Dated 16.08.2021	
1 No. x 500 ml Wide mouth Glass bottle Ex GAO		Date of Receipt : 16.08.2021	
1 No. x 250 ml Sample Pre Sterilized Bottle for Micro		Date of Registration : 15.08.2021	
Packing : Plastic Bottles		Date of commencement of testing : 17.08.2021	
Test Required : As given below		Time of completion of testing : 28.08.2021	
		Sample condition at receipt : Found OK	
		Sample tested as received	
Sampling Details			
Date of Sampling : 12.08.2021		Sampling Method/Procedure : IS 3025 Part 1	
Location of Sampling: Nam Nadi River Down Stream		General Environment conditions: OK	
		Page No. 1 of 1	

TEST RESULTS

S No.	Test Parameter	Units	Test Method	Results	Limits for Surface Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part-4)	10	100
2.	pH		IS 3025 (Part-11)	6.85	6.5 to 8.5
3.	Total suspended Solids	mg/l	IS 3025 (Part-17)	62	---
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-17)	154	1500
5.	Chloride (as Cl ⁻)	mg/l, Max.	IS 3025 (Part-52)	15	500
6.	Iron (as Fe)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	0.20	50
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-19)	21	400
8.	Fluoride (as F ⁻)	mg/l, Max.	4500-C D, APHA 23rd Edition 2017	0.18	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4500-NO-B UV Spectrophotometric Screening Method	3.9	50
10.	Copper (as Cu)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3.11 B of APHA 23rd Edition 2017	<0.02	---
12.	Selenium (as Se)	mg/l, Max.	3.14 B of APHA 23rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	<0.003	<0.1
15.	Lead (as Pb)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	3.14 C of APHA 23rd Edition 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l, Max.	4500 CN E, Colorimetric Method, APHA 23rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max.	3.11 B of APHA 23rd Edition 2017	<0.02	0.05
19.	Alkalies (Bicarbonate, as MEAS)	mg/l, Max.	Appendix A of IS 1528	<0.1	1
20.	Pesticide Compounds (as CHLORP)	mg/l, Max.	IS 3025 (Part-43)	<0.001	0.005
21.	COB	mg/l	IS 3025 (Part-36)	25	---
22.	NO ₂ (as N)	mg/l	IS 3025 (Part-44)	4	3
23.	Dissolved Oxygen (as O ₂)	mg/L, Sat.	IS 3025 (Part-34)	4.0	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part-39)	<1	<1
25.	Total Coliform	more/100ml, Max.	IS 1632	60	5000

Interpretation of results: Nil, Deviation from test method: Nil

*Complaints Register is available at Laboratory.

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TEST REPORT

Name & Address of the Customer : M/s. SSV Steel Limited		Test Report No. : HSE/12021/WS/015/21	
		Lab Code No. : /10045/018	
		Issue Date : 24.06.2021	
		Page Ref : Letter Dated 16/06/2021	
		Date of Receipt : 16/06/2021	
Project Name: Jagang Iron ore Mines		Date of Registration	16/06/2021
Sample Description: Surface Water Sample		Date of Commencement of testing	17/06/2021
Quantity : 1 No. x 5.0 Litre Sample		Date of completion of testing	26/06/2021
1 No. x 500 ml Sample (Metals)		Sample condition at receipt	Found OK
1 No. x 500 ml Waste water Glass bottle for DOG		Sample tested as received	
1 No. x 250 ml Sample For Standard Bottle for Metals			
Packing : Plastic bottles			
Test Required : As given below			
Date of Sampling: 12.06.2021		Sampling Method/Principle: IS 3025 Part 1	
Location of Sampling: Kakkanpal Vellak upstream		General Environment conditions ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Unit	Test Method	Result	Limits for Stream Water Standards
1.	Color	Hazen Units, Max.	IS 3025 (Part 4)	10	100
2.	pH	-	IS 3025 (Part 11)	6.67	6.5 to 8.5
3.	Chloride (as Cl ⁻)	mg/l	IS 3025 Part-17	34	---
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part 19)	128	1500
5.	Fluoride (as F ⁻)	mg/l, Max.	IS 3025 (Part 32)	0.5	100
6.	Iron (as Fe)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	0.22	50
7.	Sulphate (as SO ₄ ²⁻)	mg/l, Max.	IS 3025 (Part 34)	24	400
8.	Nitrate (as NO ₃ ⁻)	mg/l, Max.	4500-B-1 of APHA 23 rd Edition 2017	0.19	1.5
9.	Nitrite (as NO ₂ ⁻)	mg/l, Max.	4500-NO ₂ -B 1 st V Spectrophotometric Screening Method	0.4	50
10.	Copper (as Cu)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111 B-1 of APHA 23 rd Edition 2017	<0.02	---
12.	Selenium (as Se)	mg/l, Max.	3114 B-1 of APHA 23 rd Edition 2017	<0.04	0.05
13.	Zinc (as Zn)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	0.02	10
14.	Cadmium (as Cd)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	<0.001	0.1
15.	Lead (as Pb)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	<0.1	0.1
16.	Arsenic (as As)	mg/l, Max.	3114 C-1 of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as CN ⁻)	mg/l, Max.	4500 CN-C. Colorimetric Method APHA 23 rd Edition 2017	<0.01	0.05
18.	Copper (as Cu)	mg/l, Max.	3111 B-1 of APHA 23 rd Edition 2017	<0.02	0.05
19.	Azoxo Detergent (as MBAS)	mg/l, Max.	4500-A. Colorimetric Method 1724K	<0.1	1
20.	Phenols, Unoxidized (as C ₆ H ₅ OH)	mg/l, Max.	IS 3025 (Part 44)	<0.001	0.025
21.	Free Chlorine	mg/l	IS 3025 Part 48	32	---
22.	BOD (as O ₂)	mg/l	IS 3025 (Part 44)	4	3
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part 18)	5.5	4
24.	D.O. Deficit	mg/l, Max.	IS 3025 (Part 19)	<1	0.1
25.	Total Hardness	(mg/l) (H ₂ CO ₃)	IS 1622	60	5000

Interpretation of results: Nil, Deviation from test method: Nil

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TEST REPORT

Name & Address of the Customer : M/s. BSV Steel Limited		Test Report No. : BSE/12021/WS-03978	
		Lab Code No. : 20942019	
		Issue Date : 28.08.2021	
		Year Rev : 1 (After Issue) 16.08.2021	
		Date of Receipt : 16.08.2021	
Project Name : Jajaling Iron ore Mines		Date of Registration	15.08.2021
Sample Description: Surface Water Sample		Date of commencement of testing	17.08.2021
Quantity : 1 No. 250 ml. Sample		Date of completion of testing	24.08.2021
: 1 No. 500 ml. Sample (Bottle)		Sample condition at receipt	Found OK
: 1 No. 500 ml. Sample (Bottle) (Bottle for 250 ml)		Sample stored as received	
Packing : 250 ml. Sample (Bottle)			
Test Required : As given below			
Date of Sampling : 12.08.2021		Sampling Method/Procedure: IS 4025 Part 1	
Location of Sampling: Kakurani Vallah Thura System		General Environment conditions: Nil	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Unit, Max.	IS 3025 (Part 1)	10	350
2.	pH		IS 3025 (Part 1)	6.75	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 Part 2	36	—
4.	Total Dissolved Solids	mg/l Max.	IS 3025 (Part-1)	135	1500
5.	Chloride (as Cl ⁻)	mg/l Max.	IS 3025 (Part-1)	6.1	600
6.	Iron (as Fe)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	0.26	50
7.	Sulphate (as SO ₄)	mg/l Max.	IS 3025 (Part-1)	29	450
8.	Fluoride (as F ⁻)	mg/l Max.	4500 F of APHA 23 rd Edition 2017	0.24	1.5
9.	Nitrate (as NO ₃)	mg/l Max.	4500 NO ₃ B 1 V Spectrophotometric Method	9.8	50
10.	Copper (as Cu)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	1111 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	<0.005	<0.1
15.	Lead (as Pb)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	<0.1	0.1
16.	Arsenic (as As)	mg/l Max.	1111 C of APHA 23 rd Edition 2017	<0.01	0.5
17.	Cyanide (as CN ⁻)	mg/l Max.	4500 CN ⁻ B, Colorimetric Method, APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Ammonia Nitrogen (as NH ₄ N)	mg/l Max.	Annex B of IS 10248	<0.1	—
20.	Pesticide Compounds (as C ₁₂ H ₁₀)	mg/l Max.	IS 3025 (Part 4)	<0.001	0.005
21.	ECOD	mg/l	IS 3025 (Part 5)	36	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part 6)	5	5
23.	Dissolved Oxygen (as O ₂)	mg/l, Min	IS 3025 (Part 7)	5.5	—
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part 8)	<1	0.1
25.	Total Coliform	Colo/100 ml Max.	IS 1612	65	500

Interpretation of results: Nil. Deviation from test method: Nil



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*Complaints Register is available at Laboratory

End of the Report



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BS/PT/2021/205/01600	
Project Name : Jajajam Iron ore Mines		Lab Code No : 210640004	Issue Date : 24.08.2021
Sample Description : Surface Water Sample		From Ref : 10000000000000000000	Date of Receipt : 6.08.2021
Quantity : 1 No. x 500 ml Sample		Date of Registration : 18.08.2021	
1 No. x 500 ml Sample Metals		Date of commencement of testing : 17.08.2021	
1 No. x 500 ml Wide mouth Glass bottle for Cd/Cr		Date of completion of testing : 24.08.2021	
1 No. x 250 ml Sample Pre-sterilized double for Micro		Sample examination receipt : Forwarded	
Packing : Plastic Bottle		Sample tested as received	
Test Required : As per below			
Date of Sampling : 12.08.2021		Sampling Method/Procedure : IS 3025 Part	
Location of Sampling : Jalpa Nadi up stream		General Environment conditions : ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Compliance Stream Water Standards
1.	Colour	Hazen Unit, Max.	IS 3025 (Part-1)	10	100
2.	pH		IS 3025 (Part-1)	6.72	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	52	—
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-1)	140	500
5.	Total Hardness (CaCO ₃)	mg/l, Max.	IS 3025 (Part-1)	15	500
6.	Iron as Fe	mg/l, Max.	Method of APHA 235 Edition 2017	0.23	50
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-1)	18	400
8.	Hardness (CaCO ₃)	mg/l, Max.	APHA 235 Edition 2017	0.14	1.5
9.	Sulphate (as SO ₄)	mg/l, Max.	UV Spectrophotometric Screening Method	9.1	50
10.	Copper as Cu	mg/l, Max.	Method of APHA 235 Edition 2017	0.02	1.5
11.	Manganese as Mn	mg/l	Method of APHA 235 Edition 2017	< 0.02	—
12.	Selenium as Se	mg/l, Max.	Method of APHA 235 Edition 2017	< 0.01	0.05
13.	Zinc as Zn	mg/l, Max.	Method of APHA 235 Edition 2017	0.02	15
14.	Cadmium as Cd	mg/l, Max.	Method of APHA 235 Edition 2017	< 0.02	< 0.1
15.	Lead as Pb	mg/l, Max.	Method of APHA 235 Edition 2017	< 0.01	0
16.	Antimony as Sb	mg/l, Max.	Method of APHA 235 Edition 2017	< 0.01	0.2
17.	Cyanide (as C _N)	mg/l, Max.	4500 CN, Colorimetric Method, APHA 235 Edition 2017	< 0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l, Max.	Method of APHA 235 Edition 2017	< 0.02	0.05
19.	Ammonia Nitrogen (as NH ₃ -N)	mg/l, Max.	Ammonia, N of IS 12249	< 0.1	1
20.	Phosphate (as P ₂ O ₅)	mg/l, Max.	IS 3025 (Part-1)	< 0.001	0.05
21.	COD	mg/l	IS 3025 Part-54	16	—
22.	BOD (as DO)	mg/l	IS 3025 (Part-44)	3	3
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-19)	5.5	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part-39)	< 1	0.1
25.	Total Coliform	(mpn/100 ml) Max.	IS 3025	50	500

Interpretation of results: Nil. Deviations from IS in Part: Nil

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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BSE/12021/WS/10374	
		Lab Code No : 21062106	
		Issue Date : 28.08.2021	
		Your Ref : Letter Dated 16.08.2021	
Project Name : Ajajong River near Mloor		Date of Receipt : 16.08.2021	
Sample Description: Surface Water sample		Date of Registration : 16.08.2021	
Quantity : 1 No. 500 ml Sample		Date of commencement of testing : 17.08.2021	
1 No. x 500 ml Sample (Alkalinity)		Date of completion of testing : 28.08.2021	
1 No. x 500 ml Wide mouth Glass bottle for DO & DO		Sample condition at receipt : Found ok	
1 No. x 250 ml Sample for Sterilized Bottle for Micro		Sample tested as received	
Parking : 1 Hour (Drops)			
Test Required : As given below			
Sampling Details			
Date of Sampling : 12.08.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Jalpa Nadi Drain in Stream		General Environment condition: OK	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Stream Water Standards
1.	Colour	Hazen Units, Max.	IS 1025 (Part 4)	10	100
2.	pH	-	IS 3025 (Part 1)	6.70	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part 1)	56	100
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part 1)	152	1000
5.	Chloride (as Cl)	mg/l, Max.	IS 3025 (Part 3)	19	600
6.	Total Hardness	mg/l, Max.	APHA 21 st Edition 2017	0.25	50
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part 4)	20	400
8.	Fluoride (as F)	mg/l, Max.	4500-Ref-11, APHA 21 st Edition 2017	0.16	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4500-Ref-11, UV Spectrophotometric Screening Method	0.5	45
10.	Copper (as Cu)	mg/l, Max.	3111 B of APHA 21 st Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111 B of APHA 21 st Edition 2017	<0.02	0.05
12.	Selenium (as Se)	mg/l, Max.	3114 B of APHA 21 st Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	3111 B of APHA 21 st Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l, Max.	3111 B of APHA 21 st Edition 2017	<0.001	<0.1
15.	Lead (as Pb)	mg/l, Max.	3111 B of APHA 21 st Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	3114 C of APHA 21 st Edition 2017	<0.01	0.05
17.	Cyanide (as CN)	mg/l, Max.	4500-Ch-1, Colorimetric Method APHA 21 st Edition 2017	<0.02	0.05
18.	Chlorine (as Cl ₂)	mg/l, Max.	3111 B of APHA 21 st Edition 2017	<0.02	0.05
19.	Amine Derivates (as MBAS)	mg/l, Max.	Atmos. K.O.TS 13248	<0.1	1
20.	Phenolic Compounds (as 2,4,6-TP)	mg/l, Max.	IS 3025 (Part 4)	<0.001	0.002
21.	DO (%)	mg/l	IS 3025 (Part 5)	16	100
22.	DO (as O ₂)	mg/l	IS 3025 (Part 4)	5	3
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part 3)	5.5	1
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part 1)	<1	0.1
25.	Total Chlorine	mg/l, 100% Max.	IS 1622	10	5000

Interpretation of results: N/A, Derived from test method. Not

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End of the Report

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Authorized Signatory
(G. Chandra Mohan)
Environmental Scientist

JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

AUGUST - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : August
Date : 27.08.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) In Meter/Second
1.	Baitarani River	2.642
2.	Suna Nadi	1.412
3.	Kakarpani Nallah	0.789
4.	Jalpa Nadi	1.214

For B.S Envi-Tech (P) Ltd.,


Authorized Signatory



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JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

SEPTEMBER - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : September
Date : 24.09.2021

GROUND WATER LEVEL, DEPTH FROM SURFACE

S.No	Location	Ground Water Level In Meters
1.	Dug Well Jurudi Village	7.12
2.	Dug Well Jajang Village	1.91
3.	Dug Well Kamalpur Village	2.44
4.	Dug Well Jalahari Village	8.73
5.	Dug Well Jaribahal Village	3.03
6.	Dug Well BIL Siding	3.27

For B.S Envi-Tech (P) Ltd.,



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JAJANG IRON ORE MINES

SURFACE RUN OFF ANALYSIS REPORT

SEPTEMBER – 2021



B.S. ENVI - TECH PVT. LTD.

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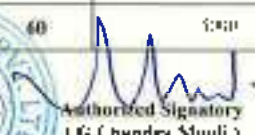
TEST REPORT

Name & Address of the Customer : M/s JSW Steel Limited		Test Report No. : BS/ET/2021/WS/00926	
Project Name: Jagajyoti Iron Ore Mines		Lab Code No. : 10656429	
Sample Description: Surface Run - 1 st Water Sample		Issued Date : 01/09/2021	
Quantity : 1 Bag x 500 gms Sample		Voter Ref : 11 June Date 25/09/2021	
1 Bag x 500 ml Sample (Metals)		Date of Receipt : 01/09/2021	
1 Bag x 500 ml. Wide mouth Glass bottle for 1000		Date of Registration : 15/09/2021	
1 Bag x 250 ml Sample for Surface Run Filter Free Water		Date of commencement of testing : 15/09/2021	
Packaging : 1000 ml bottles		Date of completion of testing : 01/09/2021	
Test Required : As per order		Sample condition on receipt : Found as	
		Sample tested as received	
<p align="center">Sampling Details</p> <p>Date of sampling: 22/09/2021 Sampling Method/Procedure: IS 1025 Part 1</p> <p>Location of Sampling: Water Check Dam near Jagajyoti Railway Sliding General Environment conditions: ok Page No. 1 of 1</p>			

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Surface Water Standards
1.	Color	mg/L (Pt-Co. Mix.)	IS 1025 (Part-1)	10	50
2.	pH	-	IS 1025 (Part-1)	6.52	6.5 to 8.5
3.	Total Suspended Solids	mg/L	IS 1025- Part-1	48	100
4.	Total Dissolved Solids	mg/L, Max.	IS 1025 (Part-1)	215	1500
5.	Chloride (as Cl ⁻)	mg/L, Max.	IS 1025 (Part-1)	15	100
6.	Fluoride (as F ⁻)	mg/L, Max.	IS 1025 (Part-1)	0.20	50
7.	Sulphate (as SO ₄ ²⁻)	mg/L, Max.	IS 1025 (Part-1)	25	100
8.	Fluoride (as F ⁻)	mg/L, Max.	IS 1025 (Part-1)	0.20	50
9.	Nitrate (as NO ₃ ⁻)	mg/L, Max.	IS 1025 (Part-1)	18	50
10.	Copper (as Cu)	mg/L, Max.	IS 1025 (Part-1)	0.03	1.5
11.	Manganese (as Mn)	mg/L	IS 1025 (Part-1)	0.02	1.0
12.	Selenium (as Se)	mg/L, Max.	IS 1025 (Part-1)	<0.01	1.05
13.	Zinc (as Zn)	mg/L, Max.	IS 1025 (Part-1)	0.04	1.5
14.	Lead (as Pb)	mg/L, Max.	IS 1025 (Part-1)	<0.03	0.1
15.	Lead (as Pb)	mg/L, Max.	IS 1025 (Part-1)	<0.01	0.1
16.	Arsenic (as As)	mg/L, Max.	IS 1025 (Part-1)	<0.01	0.1
17.	Cadmium (as Cd)	mg/L, Max.	IS 1025 (Part-1)	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/L, Max.	IS 1025 (Part-1)	<0.02	0.05
19.	Arsenic (as As)	mg/L, Max.	IS 1025 (Part-1)	<0.01	1
20.	Fluoride (as F ⁻)	mg/L, Max.	IS 1025 (Part-1)	<0.01	0.05
21.	Chloride (as Cl ⁻)	mg/L	IS 1025 (Part-1)	25	100
22.	pH	-	IS 1025 (Part-1)	6	7
23.	Dissolved Oxygen (as O ₂)	mg/L Min.	IS 1025 (Part-1)	5.1	4
24.	Total Hardness	mg/L, Max.	IS 1025 (Part-1)	< 1	0.1
25.	Total Soluble	mg/L (Max.)	IS 1025 (Part-1)	40	5000

Interpretation of results: Nil, Deviation from test method: Nil


 Authorized Signatory
 (G. Chandra Mouli)
 Environmental Scientist

*Complete Report is available at Laboratory

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JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

SEPTEMBER – 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT

Name & Address of the Customer: Adva Steel Limited		Test Report No.: BSE/2021/45-03902	
		Lab Code No.: 21269900	
		Issue Date: 13.09.2021	
		Year Ref.: 1 (Issue Dated: 09.09.2021)	
		Date of Receipt: 09.09.2021	
Project Name: Jajanti Iron ore Mines		Date of Registration:	09.09.2021
Sample Description: Surface Water Sample		Date of commencement of testing:	09.09.2021
Quantity: 1 No. x 5 Ltrs Sample		Date of completion of testing:	13.09.2021
1 No. x 100 ml Sample (Alkalinity)		Sample condition as receipt:	Found OK
1 No. x 100 ml Wide mouth Glass bottle for HCO ₃		Sample tested as received:	
1 No. x 250 ml Sample (In-situ measured BOD & DO)			
Packing: 1 Plastic Bottle			
Test Required: As given below			
Sampling Details			
Date of Sampling: 09.09.2021		Sampling Method/Procedure: As per Part 1	
Location of Sampling: Bailurani River Upstream		General Environment conditions: OK	
		Page No. 1 of	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limit for Surface Water Standards
1.	Colour	Platinum-Cobalt	IS 3025 (Part-1)	10	100
2.	pH		IS 3025 (Part-1)	6.72	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part-1)	34	—
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part-1)	145	1500
5.	Total Hardness (as Ca)	mg/l, Max.	IS 3025 (Part-1)	15	1000
6.	Total Chloride	mg/l, Max.	1111 B-1 APHA 2311 Titrimetric 2017	0.31	20
7.	Sulphate (as SO ₄)	mg/l, Max.	IS 3025 (Part-1)	17	400
8.	Fluoride (as F)	mg/l, Max.	4500 F-1 APHA 2311 Titrimetric 2017	0.15	1.5
9.	Nitrate (as NO ₃)	mg/l, Max.	4550 B-1 UV Spectrophotometry, Spectrophotometric Method	9.0	50
10.	Copper (as Cu)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111 B-1 APHA 2311 Titrimetric 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.01	0.25
13.	Zinc (as Zn)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	0.03	15
14.	Cadmium (as Cd)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.003	<0.1
15.	Copper (as Cu)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l, Max.	4550 C-1 Fehling, APHA 2311 Titrimetric 2017	<0.02	0.05
18.	Chlorine (as Cl)	mg/l, Max.	3111 B-1 APHA 2311 Titrimetric 2017	<0.02	0.05
19.	Ammonia Nitrogen (as NH ₃ -N)	mg/l, Max.	APHA 2311 Titrimetric 2017	<0.1	1
20.	Phosphate (as P)	mg/l, Max.	APHA 2311 Titrimetric 2017	<0.001	0.005
21.	COD	mg/l	IS 3025 (Part-1)	45	—
22.	BOD (5 days)	mg/l	IS 3025 (Part-1)	8	5
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part-1)	5.2	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part-1)	<1	2.1
25.	Total Alkalinity	mg/l (as CaCO ₃)	IS 1622	125	5000

Interpretation of result: Nil. Deviation from test method: Nil



Authorized Signatory
(G. Chandra Mouli)
Environmental Scientist

*Comments: Report is available at Laboratory

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TEST REPORT

Name & Address of the Customer : M/s. BSW Steel Limited		Test Report No. : BSEI-2021 W.S-01955	
Project Name : Jajung Iron ore Mines		Lab Code No. : 2190975	
Sample Description: Surface Water Sample		Issue Date : 13/09/2021	
Quantity : 1 No. x 50 ml Sample (Metals)		Year Ref : Latest Date: 10/09/2021	
1 No. x 500 ml Waste water Glass bottle for HCL		Date of Receipt : 10/09/2021	
1 No. x 250 ml Sample and Sealable Bottle for Water		Date of Registration : 09/09/2021	
Packing : Packed, Sealed		Date of Submission for testing	10/09/2021
Test Required : As given below		Date of completion of testing	17/09/2021
		Sample condition at receipt	Fine and clear
		Sample tested as received	

Sampling Details

Date of Sampling: 06/09/2021

Location of Sampling: Bhatkuli River, Dehradun

Sampling Method/Procedure: IS 3025 Part 1

General Environmental conditions: OK

Page No. : 011

TEST RESULTS

S. No.	Test Parameter	Unit	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Hazen Unit, Max	IS 3025 (Part 1)	15	50
2.	pH	-	IS 3025 (Part 1)	6.82	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part 1)	45	100
4.	Total Dissolved Solids	mg/l, Max	IS 3025 (Part 1)	165	500
5.	Total Hardness	mg/l, Max	IS 3025 (Part 1)	22	500
6.	Iron (as Fe)	mg/l, Max	APHA 2377 Edition 2017	0.26	50
7.	Sulphate (as SO ₄)	mg/l, Max	IS 3025 (Part 2)	40	100
8.	Fluoride (as F ⁻)	mg/l, Max	APHA 2377 Edition 2017	0.26	1.5
9.	Nitrate (as NO ₃)	mg/l, Max	APHA 2377 Edition 2017	14	50
10.	Copper (as Cu)	mg/l, Max	APHA 2377 Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	APHA 2377 Edition 2017	<0.02	100
12.	Selenium (as Se)	mg/l, Max	APHA 2377 Edition 2017	<0.01	100
13.	Zinc (as Zn)	mg/l, Max	APHA 2377 Edition 2017	0.04	5
14.	Cadmium (as Cd)	mg/l, Max	APHA 2377 Edition 2017	<0.003	1
15.	Lead (as Pb)	mg/l, Max	APHA 2377 Edition 2017	<0.1	5
16.	Antimony (as Sb)	mg/l, Max	APHA 2377 Edition 2017	<0.01	0.2
17.	Chromium (as Cr)	mg/l, Max	APHA 2377 Edition 2017	<0.02	0.5
18.	Chromium (as Cr ⁶⁺)	mg/l, Max	APHA 2377 Edition 2017	0.05	0.5
19.	Asbestos (as As)	mg/l, Max	APHA 2377 Edition 2017	<0.01	1
20.	Phosphate (as PO ₄ -P)	mg/l, Max	IS 3025 (Part 1)	<0.001	0.05
21.	Chloride	mg/l	IS 3025 (Part 1)	55	100
22.	BOD (as O ₂)	mg/l	IS 3025 (Part 1)	9	1
23.	Dissolved Oxygen (as O ₂)	mg/l, Max	IS 3025 (Part 1)	5.4	1
24.	Oil & Grease	mg/l, Max	IS 3025 (Part 1)	<1	10
25.	Total Chlorine	mg/l, Max	IS 3025 (Part 1)	85	5000

Interpretation of results: Nil, Deviation from test method: Nil

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End of the Report

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Authorized Signatory
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 Environmental Scientist



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS/2021/Env/05401
Project Name: Jagann Iron ore Mines		Lab Code No. : 210658/In
Sample Description: Surface Water Sample		Issue Date : 17.08.2021
Quantity : 1 x 500 ml Sample		Visit Ref : 112019/05401/05401
Analysis: 500 ml Sample (Major & Minor) / 500 ml Sample (Major & Minor) / 500 ml Sample (Major & Minor)		Date of Receipt : 16.08.2021
Packaging : 500 ml Sample		Date of Registration : 20.09.2021
Test Required : As per below		Date of commencement of testing : 07.09.2021
		Date of completion of testing : 07.09.2021
		Sample condition at receipt : Good
		Sample received as received
<p>Sampling Details</p> <p>Date of sampling : 06.09.2021</p> <p>Location of sampling : Sona Nadi River upstream</p> <p>Sampling Method/Procedure : IS 3025 Part 1</p> <p>General Environmental conditions : Page No. 1 of 1</p>		

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	pH	Dimensionless	IS 3025 Part 1	10	7-9
2.	EC	µS/cm	IS 3025 Part 1	622	50-450
3.	Total Suspended Solids	mg/l	IS 3025 Part 1	51	100
4.	Total Dissolved Solids	mg/l	IS 3025 Part 1	146	500
5.	Total Hardness	mg/l	IS 3025 Part 1	10	500
6.	Iron (as Fe)	mg/l	APHA 2005 Edition 2017	0.20	50
7.	Nitrate (as NO ₃)	mg/l	IS 3025 Part 1	15	400
8.	Nitrite (as NO ₂)	mg/l	APHA 2005 Edition 2017	0.25	10
9.	Ammonia (as NH ₃)	mg/l	IS 3025 Part 1	0.1	50
10.	Copper (as Cu)	mg/l	APHA 2005 Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	APHA 2005 Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l	APHA 2005 Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l	APHA 2005 Edition 2017	0.04	15
14.	Cadmium (as Cd)	mg/l	APHA 2005 Edition 2017	<0.005	0.01
15.	Lead (as Pb)	mg/l	APHA 2005 Edition 2017	<0.01	0.1
16.	Asbestos (as As)	mg/l	APHA 2005 Edition 2017	<0.01	0.2
17.	Cyanide (as CN)	mg/l	APHA 2005 Edition 2017	<0.02	0.05
18.	Chlorine (as Cl ₂)	mg/l	APHA 2005 Edition 2017	<0.02	0.05
19.	Aluminum (as Al)	mg/l	APHA 2005 Edition 2017	<0.1	1
20.	Barium (as Ba)	mg/l	IS 3025 Part 1	<0.001	0.005
21.	CO ₂	mg/l	IS 3025 Part 1	15	—
22.	BOD (as O ₂)	mg/l	IS 3025 Part 1	2	5
23.	Dissolved Oxygen (as O ₂)	mg/l	IS 3025 Part 1	5.6	4
24.	Oil & Grease	mg/l	IS 3025 Part 1	<1	0.1
25.	Total Phosphorus	mg/l	IS 3025 Part 1	15	500

Interpretation of results: Nil, Deviation from or method: Nil

*Complaints Register is available at Laboratory.

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Environmental Scientist



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No. : BS-ENVI-WS-03005	
Project Name : Rajahmundry Bypass		Lab Code No. : 310650506	
Sample Description: Surface Water Sample		Report Date : 2/09/2021	
Quantity : 1 No. x 500 ml Sample		Visit Ref : After dated 16/09/2021	
1 No. x 500 ml Sample (Method 5)		Date of Receipt : 02/09/2021	
1 No. x 500 ml Sample (Method 6)		Date of Registration : 02/09/2021	
1 No. x 500 ml Sample (Method 7)		Date of commencement of testing : 02/09/2021	
1 No. x 500 ml Sample (Method 8)		Date of completion of testing : 13/09/2021	
Packing : 1 No. x 500 ml Sample in Sterilized Bottle		Sample (no) of receipt : 1, and 2	
Test Required : As per request		Sample tested as received	
Sampling Details			
Date of Sampling: 06/09/2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Nalla Sadi Bore Flow Stream		General Environmental conditions: OK	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Colour	Chart Units Max.	IS 3025 Part 4	10	100
2.	pH	-	IS 3025 (Part 1)	6.80	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 Part 1	75	—
4.	Total Dissolved Solids	mg/l Max.	IS 3025 (Part 1)	160	1500
5.	Chloride (Cl ⁻)	mg/l Max.	IS 3025 Part 1	12	600
6.	Iron (as Fe)	mg/l Max.	IS 3025 Part 1	4.15	50
7.	Sulphate (as SO ₄ ²⁻)	mg/l Max.	IS 3025 Part 1	24	400
8.	Hardness (Ca)	mg/l Max.	1500 mg/l APHA 25 th Edition 2017	4.20	1.5
9.	Nitrate (as NO ₃ ⁻)	mg/l Max.	1500 mg/l 1% Spectrophotometric Spectrophotometric Method	3.5	50
10.	Copper (as Cu)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	111.1 mg/l APHA 25 th Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.003	<0.1
15.	Cobalt (as Co)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.01	<0.1
16.	Arsenic (as As)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.01	50
17.	Chromium (as Cr)	mg/l Max.	4900 mg/l Method APHA 21 st Edition 2017	<0.02	100
18.	Chromium (as Cr ⁶⁺)	mg/l Max.	111.1 mg/l APHA 25 th Edition 2017	<0.02	0.05
19.	Arsenic (as As)	mg/l Max.	Ames, R 2 nd Edition 1996	<0.1	1
20.	Thermal Conductivity (as TCC)	mg/l Max.	IS 3025 Part 4	<0.001	0.705
21.	Chloride (Cl ⁻)	mg/l	IS 3025 Part 4	29	—
22.	BOD (as BOD ₅)	mg/l	IS 3025 Part 4	3	1
23.	Dissolved Oxygen (as DO)	mg/l	IS 3025 Part 4	4.5	1
24.	Oil & Grease	mg/l Max.	IS 3025 Part 4	<1	0
25.	Total Chlorine	mg/l Max.	IS 3025 Part 4	60	5000

Interpretation of results: Nil. Deviation from test method: Nil

Authorized Signatory
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CIN No : U74210TG1999PTC032358



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TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited		Test Report No.: BS/ET/2021/WS/01905	
Project Name: Jajajaj Iron Ore Mines		Lab Order No.: 212654869	
Sample Description: Surface Water Sample		Issue Date: 17.08.2021	
Quantity: 1 No. x 500 ml Sample		Your Ref.: 1234567890123456	
1 No. x 500 ml Sample (12/2021)		Date of Receipt: 16.08.2021	
1 No. x 500 ml Water sample (12/2021)		Date of Registration: 16.08.2021	
1 No. x 500 ml Sample, Pre-Sieved and Baffle for pH		Date of commencement of testing: 17.08.2021	
Packaging: Plastic Bottles		Date of completion of testing: 17.08.2021	
Test Required: As given below		Sample condition on receipt: Good	
		Sample tested as received	
Sampling Details			
Date of Sampling: 16.08.2021		Sampling Method/Procedure: IS 1025 Part 1	
Location of Sampling: Kankarapalli Nallabandi stream		General Environmental conditions: ok	
		Page No. 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Stream Water Standards
1.	Color	Hazen Units, Max.	IS 1025 (Part 4)	10	100
2.	pH		IS 1025 (Part 11)	6.52	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 1025 (Part 2)	31	—
4.	Total Dissolved Solids	mg/L Max.	IS 1025 (Part 10)	125	1500
5.	Chloride (as Cl ⁻)	mg/L Max.	IS 1025 (Part 12)	9.1	100
6.	Iron (as Fe)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	0.20	30
7.	Sulphate (as SO ₄ ²⁻)	mg/L Max.	IS 1025 (Part 24)	26	400
8.	Fluoride (as F ⁻)	mg/L Max.	4500-11, APHA 207 th Edition 2017	0.20	1.5
9.	Mercury (as Hg)	mg/L Max.	1590-NC-11, US Nucleonics/Enviro. Screening Method	9.1	50
10.	Copper (as Cu)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	<0.02	1.5
11.	Vanadium (as V)	mg/L	1111 B-1 of APHA 231 st Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/L Max.	3104-1-1 of APHA 231 st Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	0.02	1.5
14.	Cadmium (as Cd)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	<0.001	<0.1
15.	Lead (as Pb)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	<0.1	0.1
16.	Antimony (as Sb)	mg/L Max.	3104-1-1 of APHA 231 st Edition 2017	<0.01	0.2
17.	Chromium (as Cr)	mg/L Max.	4500-1-1, Nucleonics, Manual, APHA 231 st Edition 2017	<0.02	100
18.	Chromium (as Cr ⁶⁺)	mg/L Max.	1111 B-1 of APHA 231 st Edition 2017	<0.02	100
19.	Arsenic (as As)	mg/L Max.	Annex K of IS 12248	<0.1	1
20.	Barium (as Ba)	mg/L Max.	IS 1025 (Part 31)	<0.001	0.005
21.	COB	mg/L	IS 1025 (Part 32)	35	—
22.	BOD (as O ₂)	mg/L	IS 1025 (Part 41)	5	3
23.	Dissolved Oxygen (as O ₂)	mg/L Min.	IS 1025 (Part 33)	5.4	4
24.	Total Hardness	mg/L Max.	IS 1025 (Part 34)	<1	100
25.	Total Calcium	mg/L (as Ca) Max.	IS 1025 (Part 35)	—	—

Interpretation of results: Nil. Derived from test method N

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Environmental Scientist



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TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited		Test Report No : BS/2021/WS/0001	
Lab Code No : 21663406		Issued Date : 17.05.2021	
Invoice No : 17.05.2021		Your Ref : Letter Dated 09.05.2021	
Date of Receipt : 09.05.2021		Date of Registration : 09.05.2021	
Project Name : Jajajaj Iron ore Mines		Date of commencement of testing : 10.05.2021	
Sample Description: Surface Water Sample		Date of completion of testing : 17.05.2021	
Quantity : 1 No. of 0.5 ltr Sample		Sample condition as receipt : Found ok	
1 No. x 500 ml Sample (Metals)		Sample tested as received	
1 No. x 500 ml Wide mouth Glass bottle for Cu, Cd			
1 No. x 250 ml Sample Pre Sterilized Bottle for Micro.			
Packing : Plastic Buckles			
Test Required : As given below			
Sampling Details			
Date of Sampling : 06.05.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Kulkarni Nalla Down Stream		General Environment conditions: ok	

TEST RESULTS

S No.	Test Parameter	Units	Test Method	Result	Limit for Surface Water Magnitude
1.	Colour	Hazen Units, Max.	IS 3025 (Part-1)	10	100
2.	pH	-	IS 3025 (Part-11)	6.80	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025, Part-13	32	—
4.	Total Dissolved Solids	mg/L, Max.	IS 3025 (Part-16)	140	500
5.	Chloride (as Cl ⁻)	mg/L, Max.	IS 3025 (Part-33)	9.8	500
6.	Iron (as Fe)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	0.45	50
7.	Sulphates (as SO ₄)	mg/L, Max.	IS 3025 (Part-34)	36	400
8.	Fluoride (as F ⁻)	mg/L, Max.	4500 F of APHA 23 rd Edition 2017	0.14	1.5
9.	Nitrate (as NO ₃)	mg/L, Max.	4500 NO ₃ B of UV Spectrophotometric Screening Method	9.2	50
10.	Copper (as Cu)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/L	3113 B of APHA 23 rd Edition 2017	<0.02	—
12.	Vanadium (as V)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.02	0.05
13.	Zinc (as Zn)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	0.02	1.5
14.	Cadmium (as Cd)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.003	<0.1
15.	Cobalt (as Co)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.1	0.1
16.	Arsenic (as As)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.01	0.5
17.	Cyanide (as CN ⁻)	mg/L, Max.	4500 C of APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/L, Max.	3113 B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Antimony (as Sb) (as MBAS)	mg/L, Max.	Antimony IS 15243	<0.1	1
20.	Phenolic Compounds (as % MBAS)	mg/L, Max.	IS 3025 (Part 43)	<0.001	0.005
21.	COD	mg/L	IS 3025 - Part-56	35	—
22.	BOD (as DO)	mg/L	IS 3025 (Part 44)	4	3
23.	Dissolved Oxygen (as DO)	mg/L, Min	IS 3025 (Part 38)	5.6	4
24.	Oil & Grease	mg/L, Max.	IS 3025 (Part 39)	< 1	0.1
25.	Total Coliform	mpn/100ml, Max.	IS 3025	90	5000

Interpretation of results: Nil, Deviation from test method: Nil

*Complaints Register is available at Laboratory

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TEST REPORT

Name & Address of the Client: M/s. BSW Steel Limited		Test Report No.: BSE/1/2021/PA-S-03906	
Project Name: Rajang Iron ore Mines		Lab Code No.: 210659209	
Sample Description: Surface Water Sample		Issue Date: 17.09.2021	
Quantity: 1 Box x 500 ml Sample Bottles		Year Ref: Letter Dated 09.09.2021	
1 Box x 500 ml Sample Bottles for O&G		Date of Receipt: 16.09.2021	
1 Box x 250 ml Sample Pre-Sterilized Bottle For Micro		Date of Registration: 16.09.2021	
Packing: 1 Box x 500 ml		Date of commencement of testing: 16.09.2021	
Test Required: As given below		Date of completion of testing: 17.09.2021	
		Sample condition at receipt: 1 Sample	
		Sample tested as received	
Sampling Details			
Date of Sampling: 06.09.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Rajang Road, opp. stream		General Environment condition: ok	
		Page No.: 04/1	

TEST RESULTS

S. No.	Test Parameter	Unit	Test Method	Result	Limit for Stream Water Standards
1.	Colour	Hazen Unit Max.	IS 3025 (Part 1)	00	300
2.	pH		IS 3025 (Part 11)	6.70	5.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part 11)	25	—
4.	Total Dissolved Solids	mg/l Max.	IS 3025 (Part 10)	140	500
5.	Chloride (as Cl ⁻)	mg/l Max.	IS 3025 (Part 12)	25	1000
6.	Iron (as Fe)	mg/l Max.	1111 B of APHA 23 rd Edition 2017	0.20	50
7.	Sulphate (as SO ₄)	mg/l Max.	IS 3025 (Part 14)	15	400
8.	Fluoride (as F ⁻)	mg/l Max.	4500-F of APHA 23 rd Edition 2017	0.12	1.5
9.	Nitrate (as NO ₃)	mg/l Max.	4500-NO ₃ of APHA 23 rd Edition 2017	0.5	50
10.	Copper (as Cu)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.003	<0.1
15.	Lead (as Pb)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as C _N)	mg/l Max.	4200-CN of APHA 23 rd Edition 2017	<0.02	0.05
18.	Chromium (as Cr ⁶⁺)	mg/l Max.	3111 B of APHA 23 rd Edition 2017	<0.02	0.05
19.	Arsenic, Inorganic (as MBAS)	mg/l Max.	Arson. Kit IS 17268	<0.1	1
20.	Phenols, Unsubstituted (as C ₆ H ₅ OH)	mg/l Max.	IS 3025 (Part 4)	<0.001	0.005
21.	COD	mg/l	IS 3025 (Part 5)	20	—
22.	BOD (at 20°C)	mg/l	IS 3025 (Part 4)	4	5
23.	Dissolved Oxygen (as O ₂)	mg/l Min.	IS 3025 (Part 5)	5.3	4
24.	Oil & Grease	mg/l Max.	IS 3025 (Part 3)	<1	0.1
25.	Total Coliform	mpn/100ml Max.	IS 1622	55	500

Interpretation of results: Nil, Deviation from test method: Nil

*Complaints Register is available at Laboratory



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TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited		Test Report No.: BSPTG2021/MS-03491	
Project Name: Jalajiang Iron ore Mines		Lab Code No.: 21065134	
Sample Description: Surface Water Sample		Issue Date: 17.09.2021	
Quantities: 1 No. x 500 ml Sample (Minerals) 1 No. x 500 ml Wide mouth, High Density Polyethylene 1 No. x 250 ml Sample For Heavy Metal Analysis		Year Ref.: Latest Date: 01/01/2021	
Packaging: 1 Plastic Bottle		Date of Receipt: 05.09.2021	
Test Required: As given below		Date of Registration: 09/09/2021	
		Date of commencement of testing: 10.09.2021	
		Date of completion of testing: 17.09.2021	
		Sample condition at receipt: Fine ok	
		Sample tested as received	
Sampling Details			
Date of Sampling: 06.09.2021		Sampling Method/Procedure: IS 3025 Part 1	
Location of Sampling: Jalajiang Down Stream		General Environment conditions: ok	
		Page No.: 1 of 1	

TEST RESULTS

S. No.	Test Parameter	Units	Test Method	Result	Limits for Surface Water Standards
1.	Colour	Hazen Units, Max.	IS 3025 (Part 4)	10	500
2.	pH	-	IS 3025 (Part 1)	6.82	6.5 to 8.5
3.	Total Suspended Solids	mg/l	IS 3025 (Part 1)	60	—
4.	Total Dissolved Solids	mg/l, Max.	IS 3025 (Part 1)	145	1500
5.	Chloride (as Cl ⁻)	mg/l, Max.	IS 3025 (Part 3)	24	600
6.	Total Hardness	mg/l, Max.	11.1 D of APHA 23 rd Edition 2017	0.20	50
7.	Sulphate (as SO ₄ ²⁻)	mg/l, Max.	IS 3025 (Part 2)	15	400
8.	Fluoride (as F ⁻)	mg/l, Max.	4500 P.D. APHA 23 rd Edition 2017	0.20	1.0
9.	Nitrate (as NO ₃ ⁻)	mg/l, Max.	4500 P.D. APHA 23 rd Edition 2017	9.4	50
10.	Copper (as Cu)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.02	1.5
11.	Manganese (as Mn)	mg/l	3111 B of APHA 23 rd Edition 2017	<0.02	—
12.	Selenium (as Se)	mg/l, Max.	3.11 B of APHA 23 rd Edition 2017	<0.01	0.05
13.	Zinc (as Zn)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	0.02	15
14.	Cadmium (as Cd)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.002	<0.1
15.	Lead (as Pb)	mg/l, Max.	3111 B of APHA 23 rd Edition 2017	<0.01	0.1
16.	Arsenic (as As)	mg/l, Max.	3114 C of APHA 23 rd Edition 2017	<0.01	0.2
17.	Cyanide (as CN ⁻)	mg/l, Max.	4500 C.F. 1. Comparative Method APHA 23 rd Edition 2017	<0.02	0.25
18.	Chromium (Cr ⁶⁺)	mg/l, Max.	3.11 B of APHA 23 rd Edition 2017	<0.02	0.55
19.	America (as Hg ²⁺) (as Hg)	mg/l, Max.	America, K of IS 1324b	<0.1	1
20.	Phenols, Compounds (as C ₆ H ₅ OH)	mg/l, Max.	IS 3025 (Part 4)	<0.001	0.005
21.	THH	mg/l	IS 3025 (Part 3)	20	—
22.	BOD (as O ₂)	mg/l	IS 3025 (Part 4)	5	1
23.	Dissolved Oxygen (as O ₂)	mg/l, Min.	IS 3025 (Part 3)	5.1	4
24.	Oil & Grease	mg/l, Max.	IS 3025 (Part 3)	<1	0.1
25.	Total Solids, mg	(up to 100 mg), Max.	IS 3025	80	5000

Interpretation of results: Nil. Deviation from test method: Nil.

*Complaints Register is available at Laboratory

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JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

SEPTEMBER - 2021



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TEST REPORT

Client : M/s. JSW Steel Ltd.
Name of Mines: Jajang Iron Ore Mines
Month : September
Date : 24.09.2021

SURFACE WATER FLOW RATE OF STREAMS

S.No	Location	Flow rate (Velocity) in Meter/Second
1.	BAITARANI RIVER UP STREAM	2.883
2.	BAITARANI RIVER DOWN STREAM	3.177
3.	SUNA RIVER UP STREAM	1.663
4.	SUNA RIVER DOWN STREAM	1.987
5.	KAKARPANI NALA UP STREAM	0.970
6.	KAKARPANI NALA DOWN STREAM	1.338
7.	JALPA RIVER UP STREAM	1.496
8.	JALPA RIVER DOWN STREAM	1.812

For B.S Envi-Tech (P) Ltd.,



Authorised Signatory

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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

APRIL - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	03.05.2021	
Sample Description: Ambient Noise Level		
Month	: April-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		"Celsius: 31.3
Wind speed(m/s):	AVG: 3.3	MAX: 7.0
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Occlus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₉₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	05.04.2021	10.00 AM-11.00 AM	80.5	79.9	80.2	80.6	80.8	81.1
Screen Plant Area	05.04.2021	11.30 AM-12.30 PM	79.3	78.5	78.8	79.2	79.7	80.0
Excavator Operator Cabin	05.04.2021	10.00 AM-11.00 AM	81.3	80.3	80.8	81.4	81.7	82.1
Dozer Operator Cabin	05.04.2021	10.00 AM-11.00 AM	81.8	80.8	81.5	81.8	82.2	82.6
Dumper Operator Cabin	05.04.2021	11.30 AM-12.30 PM	78.7	77.8	78.3	78.7	79.1	79.6
Loader Operator Cabin	05.04.2021	11.30 AM-12.30 PM	82.1	81.4	81.7	82.1	82.5	82.8
Mines Office Area	05.04.2021	02.00 PM-03.00 PM	59.8	59.1	59.4	59.7	60.2	60.6

N.B: <85 dB(A) AS PER CTO & EC79

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 59.1 to 82.8 dB(A)	1 to 2 hrs



Env. Engineer

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04	Issued to:
Reporting Date: 03.05.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: April-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Temperature:		°Celsius: 33.3
Wind speed(m/s):	AVG: 3.0	MAX: 6.7
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Ocals - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	12.04.2021	10.15 AM-11.15 AM	79.6	78.7	79.2	79.6	79.9	80.3
Screen Plant Area	12.04.2021	10.15 AM-11.15 AM	77.9	76.9	77.4	77.7	78.3	78.8
Excavator Operator Cabin	12.04.2021	10.15 AM-11.15 AM	80.4	79.5	79.9	80.2	80.8	81.3
Dozer Operator Cabin	12.04.2021	11.45 AM-12.45 PM	80.9	80.0	80.5	80.8	81.2	81.7
Dumper Operator Cabin	12.04.2021	11.45 AM-12.45 PM	79.3	78.5	78.9	79.2	79.6	80.2
Loader Operator Cabin	12.04.2021	11.45 AM-12.45 PM	80.7	79.7	80.2	80.6	81.1	81.5
Mines Office Area	12.04.2021	08.30 AM-09.30 AM	59.2	58.5	58.9	59.2	59.6	59.9

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 58.5 to 81.7 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	03.05.2021	
Sample Description: Ambient Noise Level		
Month	: April-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		°Celsius: 34.7
Wind speed(m/s):	AVG: 3.6	MAX: 7.3
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Occls: 4/8
Distance from Source (In Meter):	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	19.04.2021	09.00 AM-10.00 AM	80.9	80.1	80.4	80.8	81.2	81.6
Screen Plant Area	19.04.2021	09.00 AM-10.00 AM	78.2	77.3	77.7	78.2	78.5	78.9
Excavator Operator Cabin	19.04.2021	09.00 AM-10.00 AM	79.8	78.9	79.2	79.7	80.2	80.6
Dozer Operator Cabin	19.04.2021	10.30 AM-11.30 AM	80.2	79.2	79.7	80.3	80.6	80.9
Dumper Operator Cabin	19.04.2021	10.30 AM-11.30 AM	78.3	77.2	77.7	78.3	78.8	79.2
Loader Operator Cabin	19.04.2021	10.30 AM-11.30 AM	81.1	80.5	80.9	81.1	81.4	81.7
Mines Office Area	19.04.2021	11.45 AM-12.45 PM	59.8	58.8	59.3	59.7	60.2	60.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 58.8 to 81.7 dB(A)	1 to 2 hrs



*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	03.05.2021	
Sample Description: Ambient Noise Level		
Month	: April-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		<i>Celsius: 35.1</i>
Wind speed(m/s):	AVG: 3.1	<i>MAX: 7.2</i>
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	<i>Octas - 4/8</i>
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	26.04.2021	09.30 AM-10.30 AM	79.2	78.4	78.8	79.2	79.6	79.9
Screen Plant Area	26.04.2021	09.30 AM-10.30 AM	78.5	77.8	78.2	78.5	78.8	79.1
Excavator Operator Cabin	26.04.2021	09.30 AM-10.30 AM	80.8	79.9	80.4	80.7	81.2	81.5
Dozer Operator Cabin	26.04.2021	11.00 AM-12.00 PM	80.8	79.7	80.3	80.9	81.1	81.7
Dumper Operator Cabin	26.04.2021	11.00 AM-12.00 PM	78.8	77.9	78.3	78.8	79.2	79.6
Loader Operator Cabin	26.04.2021	11.00 AM-12.00 PM	80.0	79.2	79.6	79.9	80.3	80.7
Mines Office Area	26.04.2021	08.15 AM-09.15 AM	58.6	57.9	58.2	58.6	58.9	59.3

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 57.9 to 81.7 dB(A)	1 to 2 hrs



*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	03.05.2021	
Sample Description: Ambient Noise Level		
Month	: April-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Measurement Location:	Guest House Area	
Temperature:		°Celsius: 25.9
Wind speed(m/s):	AVG: 3.3	MAX: 7.5
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas 1/8
SLM type:	Lutron. Model SL-4023SD	
SLM Serial Number:	Q652517	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level [dB (A)]						Applicable Standard [dB (A)]	
			L _{eq,T}	L _{Amax}	L _{Amin}	L _A 90,T	L _{eq} Day	L _{eq} Night	Day Time	Night Time
08.30 AM	24 hrs	05.04.2021	51.3	52.8	40.0	52.5	51.3	41.3	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 40.0 to 52.8 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tippers.		



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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

MAY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-05		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.06.2021	
Sample Description: Ambient Noise Level		
Month	: May-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		°Celsius: 32.8
Wind speed(m/s):	AVG: 3.0	MAX: 6.8
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Occlus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₉₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	08.05.2021	09.00 AM-10.00 AM	80.2	79.3	79.7	80.2	80.6	80.9
Screen Plant Area	08.05.2021	09.00 AM-10.00 AM	78.6	77.7	78.2	78.6	78.9	79.3
Excavator Operator Cabin	08.05.2021	09.00 AM-10.00 AM	81.9	81.1	81.4	81.9	82.2	82.6
Dozer Operator Cabin	08.05.2021	10.30 AM-11.30 AM	81.9	80.9	81.3	81.8	82.4	82.8
Dumper Operator Cabin	08.05.2021	10.30 AM-11.30 AM	79.3	78.5	78.9	79.3	79.7	80.1
Loader Operator Cabin	08.05.2021	10.30 AM-11.30 AM	81.3	80.5	80.9	81.2	81.6	82.1
Mines Office Area	08.05.2021	11.45 AM-12.45 PM	57.4	56.6	56.9	57.3	57.7	58.2

N.B: <85 dB(A) AS PER CTO & EC79

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 56.6 to 82.8 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-05		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.06.2021	
Sample Description: Ambient Noise Level		
Month	: May-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		*Celsius: 33.7
Wind speed(m/s):	AVG: 3.4	MAX: 7.1
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Ocas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL 4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₉₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	15.05.2021	08.30 AM-09.30 AM	81.3	80.4	80.8	81.2	81.6	82.1
Screen Plant Area	15.05.2021	08.30 AM-09.30 AM	78.8	77.9	78.3	78.8	79.2	79.7
Excavator Operator Cabin	15.05.2021	08.30 AM-09.30 AM	79.8	78.8	79.3	79.7	80.2	80.6
Dozer Operator Cabin	15.05.2021	10.00 AM-11.00 AM	80.3	79.6	79.9	80.2	80.7	81.1
Dumper Operator Cabin	15.05.2021	10.00 AM-11.00 AM	80.2	79.3	79.9	80.2	80.5	80.9
Loader Operator Cabin	15.05.2021	10.00 AM-11.00 AM	82.3	81.4	81.8	82.2	82.7	83.1
Mines Office Area	15.05.2021	11.30 AM-12.30 PM	58.8	57.7	58.3	58.8	59.2	59.7

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 57.7 to 83.1 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-05		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.06.2021	
Sample Description: Ambient Noise Level Month : May-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		°Celsius: 34.2
Wind speed(m/s):	AVG: 2.9	MAX: 6.6
Wind Direction:	SW NE	
Cloud Cover:	Sunny	Oclas 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number.	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	22.05.2021	11.30 AM 12.30 PM	79.7	78.7	79.2	79.7	80.2	80.6
Screen Plant Area	22.05.2021	11.30 AM 12.30 PM	77.6	76.8	77.2	77.5	77.9	78.3
Excavator Operator Cabin	22.05.2021	11.30 AM- 12.30 PM	80.3	79.2	79.7	80.3	80.8	81.1
Dozer Operator Cabin	22.05.2021	10.00 AM- 11.00 AM	82.0	81.1	81.5	81.9	82.3	82.8
Dumper Operator Cabin	22.05.2021	10.00 AM- 11.00 AM	78.8	77.9	78.4	78.8	79.2	79.6
Loader Operator Cabin	22.05.2021	10.00 AM- 11.00 AM	80.7	79.7	80.3	80.6	81.1	81.5
Mines Office Area	22.05.2021	08.30 AM- 09.30 AM	56.7	55.8	56.2	56.7	57.1	57.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 55.8 to 82.8 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-05		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.06.2021	
Sample Description: Ambient Noise Level		
Month	: May-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		°Celsius: 32.4
Wind speed(m/s):	AVG. 3.7	MAX: 7.9
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Ocas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL 4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{eqn}	L ₉₀	L ₅₀	L ₁₀	L _{Max}
Crusher Plant Area	29.05.2021	10.45 AM 11.45 AM	79.2	78.1	78.5	79.2	79.7	80.1
Screen Plant Area	29.05.2021	10.45 AM 11.45 AM	77.0	76.8	76.4	76.9	77.5	78.1
Excavator Operator Cabin	29.05.2021	10.45 AM- 11.45 AM	80.6	79.6	80.1	80.5	81.1	81.4
Dozer Operator Cabin	29.05.2021	09.15 AM- 10.15 AM	81.7	80.5	81.2	81.7	82.1	82.5
Dumper Operator Cabin	29.05.2021	09.15 AM- 10.15 AM	77.8	76.6	77.2	77.8	78.1	78.9
Loader Operator Cabin	29.05.2021	09.15 AM- 10.15 AM	81.2	80.2	80.8	81.3	81.6	82.0
Mines Office Area	29.05.2021	12.15 PM- 01.15 PM	58.0	57.1	57.6	58.0	58.4	58.8

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 57.1 to 82.5 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-05	Issued to:
Reporting Date: 01.06.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: May-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	Guest House Area	
Temperature:		°Celsius: 26.8
Wind speed(m/s):	AVG: 3.0	MAX: 6.7
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octus - 4/8
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q632517	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			L _{eq,T}	L _{Amax}	L _{Amin}	L _A _{eq,T}	Leq Day	Leq Night	Day Time	Night Time
08.30 AM	24 hrs	08.05.2021	51.6	53.3	39.5	53.2	51.6	41.0	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 41.0 to 53.3 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tippers.		



Env. Engineer

*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

JUNE - 2021



B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-06		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.07.2021	
Sample Description: Ambient Noise Level Month : June-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		*Celsius: 33.4
Wind speed(m/s):	AVG: 3.2	MAX: 7.5
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Octas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	07.06.2021	09.30 AM-10.30 AM	79.3	78.5	78.8	79.3	79.7	80.1
Screen Plant Area	07.06.2021	09.30 AM-10.30 AM	77.8	76.9	77.3	77.8	78.2	78.6
Excavator Operator Cabin	07.06.2021	09.30 AM-10.30 AM	80.3	79.1	79.7	80.3	80.8	81.3
Dozer Operator Cabin	07.06.2021	11.00 AM-12.00 PM	81.4	80.4	80.8	81.3	81.7	82.3
Dumper Operator Cabin	07.06.2021	11.00 AM-12.00 PM	79.2	78.1	78.7	79.2	79.6	80.2
Loader Operator Cabin	07.06.2021	11.00 AM-12.00 PM	81.8	81.1	81.5	81.8	82.2	82.5
Mines Office Area	07.06.2021	12.15 PM-01.15 PM	55.3	54.4	54.9	55.2	55.6	56.1

N.B: <85 dB(A) AS PER CTO & EC79

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 54.4 to 82.5 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, GoI: Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-06	Issued to:
Reporting Date: 01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month: 1 June-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Temperature:		Celsius: 33.0
Wind speed(m/s):	AVG: 2.9	MAX: 6.7
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Octas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{max}	L ₉₀	L ₅₀	L ₁₀	L _{min}
Crusher Plant Area	14.06.2021	08.45 AM-09.45 AM	80.1	79.2	79.7	80.1	80.5	80.8
Screen Plant Area	14.06.2021	08.45 AM-09.45 AM	77.3	76.2	76.8	77.1	77.7	78.2
Excavator Operator Cabin	14.06.2021	08.45 AM-09.45 AM	80.4	79.5	79.9	80.3	80.8	81.2
Dozer Operator Cabin	14.06.2021	10.15 AM-11.15 AM	80.6	79.7	80.2	80.6	80.9	81.2
Dumper Operator Cabin	14.06.2021	10.15 AM-11.15 AM	78.8	77.8	78.2	78.8	79.2	79.7
Loader Operator Cabin	14.06.2021	10.15 AM-11.15 AM	81.6	80.7	81.2	81.6	82.0	82.1
Mines Office Area	14.06.2021	11.45 AM-12.45 PM	54.5	53.7	54.1	54.6	54.9	55.2

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.7 to 82.4 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-06	Issued to:
Reporting Date: 01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: June-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Temperature:		Celsius: 28.8
Wind speed(m/s):	AVG: 3.6	MAX: 8.0
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octas: 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-1023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₁₀	L ₅₀	L ₉₀	L _{max}
Crusher Plant Area	21.06.2021	11.30 AM-12.30 PM	80.0	78.9	79.4	79.8	80.5	80.9
Screen Plant Area	21.06.2021	11.30 AM-12.30 PM	78.2	77.2	77.7	78.1	78.6	79.2
Excavator Operator Cabin	21.06.2021	11.30 AM-12.30 PM	79.7	78.8	79.2	79.6	80.1	80.5
Dozer Operator Cabin	21.06.2021	02.15 PM-03.15 PM	80.2	79.5	79.9	80.2	80.5	80.9
Dumper Operator Cabin	21.06.2021	02.15 PM-03.15 PM	79.3	78.5	78.9	79.3	79.6	80.0
Loader Operator Cabin	21.06.2021	02.15 PM-03.15 PM	80.3	79.5	79.8	80.2	80.7	81.2
Mines Office Area	21.06.2021	03.30 PM-04.30 PM	53.8	52.9	53.3	53.8	54.2	54.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.9 to 81.2 dB(A)	1 to 2 hrs



*Complaints Register is available at Laboratory.

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-06	Issued to:
Reporting Date: 01.07.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: June-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Temperature:		*Celsius: 30.2
Wind speed(m/s):	AVG: 3.4	MAX: 7.7
Wind Direction:	SW-NE	
Cloud Cover:	Sunny	Octas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	28.06.2021	10.00 AM-11.00 AM	78.9	76.1	78.4	78.9	79.3	79.7
Screen Plant Area	28.06.2021	10.00 AM-11.00 AM	76.9	76.0	76.4	76.7	77.2	77.9
Excavator Operator Cabin	28.06.2021	10.00 AM-11.00 AM	79.3	78.3	78.8	79.2	79.7	80.2
Dozer Operator Cabin	28.06.2021	11.30 AM-12.30 PM	79.8	78.9	79.3	79.7	80.1	80.6
Dumper Operator Cabin	28.06.2021	11.30 AM-12.30 PM	78.2	77.3	77.7	78.2	78.6	79.1
Loader Operator Cabin	28.06.2021	11.30 AM-12.30 PM	80.8	79.9	80.3	80.8	81.2	81.5
Mines Office Area	28.06.2021	08.45 AM-09.45 AM	53.3	52.5	52.8	53.3	53.7	54.1

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.5 to 81.5 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory

4th Floor, 'AMITY VILLE', 12-13-1270/71/73,
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CIN No. : U74210TG1999PTC032358



TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-06		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.07.2021	
Sample Description: Ambient Noise Level		
Month	: June-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Measurement Location:	Guest House Area	
Temperature:		°Celsius: 27.4
Wind speed(m/s):	AVG: 3.3	MAX: 7.3
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas 1/8
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			$L_{eq,T}$	LA_{max}	LA_{min}	$LA_{90,T}$	L_{eq} Day	L_{eq} Night	Day Time	Night Time
08.30 AM	24 hrs	07.06.2021	51.5	53.1	39.3	52.8	51.5	40.4	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 39.3 to 53.1 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tippers.		



*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

JULY - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-07		Issued to: Jayang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	02.08.2021	
Sample Description: Ambient Noise Level Month : July-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		°Celsius: 30.3
Wind speed(m/s):	AVG: 3.0	MAX: 7.7
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Occlus 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	08.07.2021	09.00 AM-10.00 AM	79.4	78.3	78.8	79.2	79.9	80.3
Screen Plant Area	08.07.2021	09.00 AM-10.00 AM	78.4	77.5	77.9	78.3	78.8	79.2
Excavator Operator Cabin	08.07.2021	09.00 AM-10.00 AM	79.7	78.8	79.2	79.6	80.1	80.5
Dozer Operator Cabin	08.07.2021	10.30 AM-11.30 AM	81.7	80.7	81.2	81.6	82.1	82.7
Dumper Operator Cabin	08.07.2021	10.30 AM-11.30 AM	78.9	77.8	78.3	78.8	79.2	79.9
Loader Operator Cabin	08.07.2021	10.30 AM-11.30 AM	81.9	80.9	81.4	81.9	82.4	82.8
Mines Office Area	08.07.2021	12.00 PM-01.00 PM	53.5	52.7	53.1	53.3	53.8	54.2

N.B: <85 dB(A) AS PER CTO & EC79

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.7 to 82.8 dB(A)	1 to 2 hrs


Env. Engineer



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-07		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	02.08.2021	
Sample Description: Ambient Noise Level		
Month	: July-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		°Celsius: 30.7
Wind speed(m/s):	AVG: 3.3	MAX: 8.0
Wind Direction:	SW NE	
Cloud Cover:	Cloudy	Occlus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Tutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	15.07.2021	08.30 AM-09.30 AM	80.3	79.5	79.9	80.2	80.7	81.1
Screen Plant Area	15.07.2021	08.30 AM-09.30 AM	78.9	78.1	78.5	78.8	79.2	79.7
Excavator Operator Cabin	15.07.2021	08.30 AM-09.30 AM	79.3	78.2	78.8	79.3	79.9	80.2
Dozer Operator Cabin	15.07.2021	10.00 AM-11.00 AM	81.3	80.3	80.8	81.2	81.7	82.1
Dumper Operator Cabin	15.07.2021	10.00 AM-11.00 AM	79.1	78.2	78.6	79.1	79.5	79.9
Loader Operator Cabin	15.07.2021	10.00 AM-11.00 AM	82.3	81.3	81.8	82.2	82.7	83.1
Mines Office Area	15.07.2021	11.30 AM-12.30 PM	54.1	53.3	53.7	54.1	54.5	54.8

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.3 to 83.1 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-07		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	02.08.2021	
Sample Description: Ambient Noise Level		
Month	: July 2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		°Celsius: 29.3
Wind speed(m/s):	AVG: 3.8	MAX: 8.5
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron. Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	22.07.2021	09.15 AM-10.15 AM	80.8	79.9	80.3	80.8	81.2	81.7
Screen Plant Area	22.07.2021	09.15 AM-10.15 AM	78.8	77.9	78.3	78.8	79.2	79.7
Excavator Operator Cabin	22.07.2021	09.15 AM-10.15 AM	78.3	77.5	77.9	78.3	78.7	79.1
Digger Operator Cabin	22.07.2021	10.45 AM-11.45 AM	80.6	79.7	80.2	80.6	80.9	81.2
Dumper Operator Cabin	22.07.2021	10.45 AM-11.45 AM	77.9	76.9	77.3	77.8	78.2	78.8
Loader Operator Cabin	22.07.2021	10.45 AM-11.45 AM	81.4	80.5	80.9	81.3	81.7	82.2
Mines Office Area	22.07.2021	12.00 PM-01.00 PM	52.7	51.9	52.2	52.7	53.1	53.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 51.9 to 82.2 dB(A)	1 to 2 hrs


Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-07		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	02.08.2021	
Sample Description: Ambient Noise Level Month : July-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		%Celsius: 28.9
Wind speed(m/s):	AVG: 3.5	MAX: 8.2
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Occlus 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			Leq	L _{max}	L ₉₀	L ₅₀	L ₁₀	L _{1max}
Crusher Plant Area	29.07.2021	10.30 AM-11.30 AM	80.1	79.2	79.7	80.1	80.6	80.9
Screen Plant Area	29.07.2021	10.30 AM-11.30 AM	78.8	77.7	78.4	78.8	79.2	79.6
Excavator Operator Cabin	29.07.2021	10.30 AM-11.30 AM	78.8	77.9	76.3	76.8	79.2	79.5
Dozer Operator Cabin	29.07.2021	02.15 PM-03.15 PM	79.9	79.1	79.5	79.8	80.3	80.8
Dumper Operator Cabin	29.07.2021	02.15 PM-03.15 PM	79.3	78.5	78.9	79.2	79.7	80.1
Loader Operator Cabin	29.07.2021	02.15 PM-03.15 PM	80.8	79.9	80.4	80.7	81.2	81.6
Mines Office Area	29.07.2021	11.50 AM-12.50 PM	54.7	53.8	54.2	54.6	55.1	55.4

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s. events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.8 to 81.6 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-07	Issued to:
Reporting Date 02.08.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month : July-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	Guest House Area	
Temperature:		Celsius: 27.7
Wind speed(m/s):	AVG: 3.2	MAX: 7.9
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octas - 4/8
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			Leq,T	LA _{max}	LA _{min}	LA _{90,T}	Leq Day	Leq Night	Day Time	Night Time
08.30 AM	24 hrs	08.07.2021	50.5	52.2	36.8	51.9	50.5	38.1	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include Movement of vehicles mainly two wheelers, transportation of tippers.	Values ranged from 36.8 to 52.2 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)


 Env. Engineer



*Complaints Register is available at Laboratory.

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

AUGUST - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level		
Month	: August-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		*Celsius: 31.4
Wind speed(m/s):	AVG: 3.3	MAX:6.9
Wind Direction:	SW NE	
Cloud Cover:	Cloudy	Occlus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{Min}	L ₅₀	L ₉₀	L ₁₀	L _{Max}
Crusher Plant Area	05.08.2021	11.30 AM-12.30 PM	80.6	79.7	80.1	80.6	81.1	81.5
Screen Plant Area	05.08.2021	11.30 AM-12.30 PM	78.9	78.1	78.4	78.9	79.2	79.6
Excavator Operator Cabin	05.08.2021	11.30 AM-12.30 PM	80.3	79.5	79.9	80.3	80.6	81.0
Dozer Operator Cabin	05.08.2021	10.00 AM-11.00 AM	80.8	79.9	80.3	80.8	81.1	81.5
Dumper Operator Cabin	05.08.2021	10.00 AM-11.00 AM	78.2	77.3	77.8	78.2	78.6	79.1
Loader Operator Cabin	05.08.2021	10.00 AM-11.00 AM	81.9	81.1	81.5	81.8	82.2	82.6
Mines Office Area	05.08.2021	08.45 AM-09.45 AM	54.2	53.5	53.9	54.2	54.6	54.9

N.B: <85 dB(A) AS PER CTO & EC79

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.5 to 82.6 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level		
Month : August-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		Celsius: 30.3
Wind speed(m/s):	AVG: 3.5	MAX: 7.7
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{eqn}	L _{eq}	L _{eq}	L ₁₀	L ₅₀
Crusher Plant Area	12.08.2021	02.00 PM-03.00 PM	81.2	80.3	80.8	81.2	81.6	81.9
Screen Plant Area	12.08.2021	02.00 PM-03.00 PM	78.6	77.8	78.2	78.5	78.9	79.3
Excavator Operator Cabin	12.08.2021	02.00 PM-03.00 PM	79.3	78.4	78.9	79.2	79.6	80.0
Dozer Operator Cabin	12.08.2021	03.30 PM-04.30 PM	81.4	80.5	80.9	81.4	81.8	82.2
Dumper Operator Cabin	12.08.2021	03.30 PM-04.30 PM	78.7	77.9	78.2	78.6	79.0	79.5
Loader Operator Cabin	12.08.2021	03.30 PM-04.30 PM	81.7	80.8	81.2	81.7	82.1	82.5
Mines Office Area	12.08.2021	11.45 AM-12.45 PM	53.6	52.7	53.1	53.6	54.1	54.5

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.7 to 82.5 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level		
Month	: August-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd..		

Temperature:		*Celsius: 30.8
Wind speed(m/s):	AVG: 3.1	MAX: 7.3
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Ocas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	19.08.2021	08.30 AM-09.30 AM	80.0	79.2	79.6	79.9	80.2	80.7
Screen Plant Area	19.08.2021	08.30 AM-09.30 AM	79.2	78.4	78.8	79.3	79.6	79.9
Excavator Operator Cabin	19.08.2021	08.30 AM-09.30 AM	79.9	79.1	79.5	79.8	80.2	80.6
Dozer Operator Cabin	19.08.2021	10.00 AM-11.00 AM	80.9	80.1	80.5	80.8	81.2	81.6
Dumper Operator Cabin	19.08.2021	10.00 AM-11.00 AM	79.2	78.2	78.6	79.1	79.7	80.2
Loader Operator Cabin	19.08.2021	10.00 AM-11.00 AM	80.8	79.9	80.3	80.8	81.2	81.7
Mines Office Area	19.08.2021	11.30 AM-12.30 PM	54.9	54.1	54.4	54.9	55.2	55.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 54.1 to 81.7 dB(A)	1 to 2 hrs



Env. Engineer

*Complaints Register is available at Laboratory.



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level		
Month	: August-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

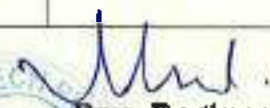
Temperature:		°Celsius: 29.4
Wind speed(m/s):	AVG: 3.0	MAX: 6.8
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octus - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron. Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{eqm}	L ₉₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	26.08.2021	09.00 AM-10.00 AM	79.3	78.5	78.9	79.3	79.6	80.0
Screen Plant Area	26.08.2021	09.00 AM-10.00 AM	78.3	77.4	77.9	78.2	78.6	79.1
Excavator Operator Cabin	26.08.2021	09.00 AM-10.00 AM	80.5	79.7	80.1	80.4	80.8	81.2
Dozer Operator Cabin	26.08.2021	10.30 AM-11.30 AM	81.8	80.9	81.3	81.7	82.2	82.6
Dumper Operator Cabin	26.08.2021	10.30 AM-11.30 AM	78.4	77.5	77.8	78.2	78.8	79.3
Loader Operator Cabin	26.08.2021	10.30 AM-11.30 AM	81.2	80.3	80.8	81.2	81.6	81.9
Mines Office Area	26.08.2021	12.00 PM-01.00 PM	53.2	52.2	52.8	53.2	53.5	53.9

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.2 to 82.6 dB(A)	1 to 2 hrs


Env. Engineer



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08	Issued to:
Reporting Date: 01.09.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: August-2021	
Sample Collected by: B.S. Envi-Tech [P] Ltd.,	

Measurement Location:	Guest House Area	
Temperature:		°Celsius: 28.5
Wind speed(m/s):	AVG: 3.4	MAX: 7.9
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Occlus - 4/8
SLM type:	Lutron. Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity:	13/10/2021	

Measurement details and statistical noise levels – dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			$L_{eq,T}$	L_{Amax}	L_{Amin}	$L_{A_{90,T}}$	Leq Day	Leq Night	Day Time	Night Time
09.00 AM	24 hrs	05.09.2021	51.1	52.7	37.6	52.4	51.1	39.1	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 37.6 to 52.7 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of litters.		


 Env. Engineer



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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

SEPTEMBER - 2021



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.10.2021	
Sample Description: Ambient Noise Level		
Month	: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		Celsius: 29.6
Wind speed(m/s):	AVG- 3.1	MAX: 7.4
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas 1/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	06.09.2021	09.00 AM- 10.00 AM	80.2	79.3	79.9	80.2	80.6	81.0
Screen Plant Area	06.09.2021	09.00 AM- 10.00 AM	78.8	77.9	78.3	78.8	79.1	79.5
Excavator	06.09.2021	09.00 AM- 10.00 AM	79.2	78.3	78.8	79.2	79.6	79.9
Dozer	06.09.2021	10.30 AM- 11.30 AM	81.0	80.2	80.6	80.9	81.3	81.8
Dumper	06.09.2021	10.30 AM- 11.30 AM	77.3	76.2	76.9	77.3	77.8	78.2
Loader	06.09.2021	10.30 AM- 11.30 AM	80.8	79.9	80.3	80.8	81.1	81.5
Mines Office Area	06.09.2021	12.00 PM- 01.00 PM	52.7	51.9	52.2	52.6	53.1	53.5

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 51.9 to 81.8 dB(A)	1 to 2 hrs


 Env. Engineer


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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month : September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Temperature:		Celsius: 27.8
Wind speed(m/s):	AVG: 3.7	MAX: 8.2
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Octas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L_{eq}	L_{max}	L₉₀	L₅₀	L₁₀	L_{min}
Crusher Plant Area	13.09.2021	08.30 AM- 09.30 AM	80.6	79.7	80.2	80.6	80.9	81.3
Screen Plant Area	13.09.2021	08.30 AM- 09.30 AM	78.4	77.5	77.9	78.3	78.8	79.2
Excavator	13.09.2021	08.30 AM- 09.30 AM	78.7	77.8	78.2	78.7	79.1	79.5
Dozer	13.09.2021	10.00 AM- 11.00 AM	81.6	80.8	81.1	81.6	81.9	82.3
Dumper	13.09.2021	10.00 AM- 11.00 AM	78.4	77.3	77.8	78.4	78.9	79.3
Loader	13.09.2021	10.00 AM- 11.00 AM	81.2	80.2	80.6	81.1	81.5	82.1
Mines Office Area	13.09.2021	11.30 AM- 12.30 PM	53.3	52.3	52.8	53.1	53.7	54.2

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.3 to 82.3 dB(A)	1 to 2 hrs


Env. Engineer



*Complaints Register is available at Laboratory

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TEST REPORT NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NO/2021-09		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.10.2021	
Sample Description: Ambient Noise Level		
Month	: September-2021	
Sample Collected by: H.S. Envi-Tech (P) Ltd.,		

Temperature:		*Celsius: 30.3
Wind speed(m/s):	AVG: 2.9	MAX: 6.7
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₅₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	20.09.2021	02.00 PM-03.00 PM	79.3	78.5	78.8	79.3	79.7	80.1
Screen Plant Area	20.09.2021	02.00 PM-03.00 PM	77.7	76.8	77.2	77.7	78.1	78.5
Excavator	20.09.2021	02.00 PM-03.00 PM	79.5	78.9	79.1	79.5	79.8	80.2
Dozer	20.09.2021	03.30 PM-04.30 PM	80.5	79.7	80.1	80.6	80.9	81.2
Dumper	20.09.2021	03.30 PM-04.30 PM	76.8	75.9	76.3	76.7	77.1	77.6
Loader	20.09.2021	03.30 PM-04.30 PM	81.5	80.7	81.1	81.6	81.9	82.2
Mines Office Area	20.09.2021	11.45 AM-12.45 PM	54.0	53.3	53.7	54.1	54.3	54.6

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.3 to 82.2 dB(A)	1 to 2 hrs


Env. Engineer



*Complaints Register is available at Laboratory

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt: Valid upto August, 2022

TEST REPORT NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		Issued to: Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Reporting Date	01.10.2021	
Sample Description: Ambient Noise Level Month : September-2021		
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		

Temperature:		*Celsius: 27.4
Wind speed(m/s):	AVG: 3.3	MAX: 7.5
Wind Direction:	SW-NE	
Cloud Cover:	Cloudy	Oxys - 4/8
Distance from Source (In Meter)	2	
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652514, Q652513 & Q652516	
Calibration Validity	13/10/2021	

Locations	Date	Time	Noise Levels in dB(A)					
			L _{eq}	L _{min}	L ₇₀	L ₅₀	L ₁₀	L _{max}
Crusher Plant Area	27.09.2021	09.45 AM-10.45 AM	79.5	78.8	79.2	79.5	79.7	80.1
Screen Plant Area	27.09.2021	09.45 AM-10.45 AM	77.1	76.1	76.6	77.0	77.5	77.9
Excavator	27.09.2021	09.45 AM-10.45 AM	78.1	77.2	77.5	78.1	78.4	78.9
Dozer	27.09.2021	11.15 AM-12.15 PM	79.9	79.0	79.5	79.8	80.2	80.7
Dumper	27.09.2021	11.15 AM-12.15 PM	78.6	77.7	78.1	78.6	78.9	79.3
Loader	27.09.2021	11.15 AM-12.15 PM	80.2	79.3	79.7	80.1	80.6	80.9
Mines Office Area	27.09.2021	08.30 AM-09.30 AM	53.5	52.7	53.0	53.4	53.9	54.2

N.B: <85 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.7 to 80.9 dB(A)	1 to 2 hrs



Env. Engineer

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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date: 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	Guest House Area	
Temperature:		°Celsius: 28.8
Wind speed(m/s):	AVG: 3.6	MAX: 7.4
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas - 4/8
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			L _{max,T}	L _{Amax}	L _{Aeq,10}	L _{Aeq,1}	Leq Day	Leq Night	Day Time	Night Time
09.00 AM	24 hrs	06.09.2021	48.6	50.6	37.1	50.1	48.6	38.8	55	45

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 37.1 to 50.6 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tippers		


 Env. Engineer



*Complaints Register is available at Laboratory



B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date: 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	East Houandry	
Temperature:		°Celsius: 26.9
Wind speed(m/s):	AVG: 3.4	MAX: 7.1
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas: 4/8
SLM type:	Lutron, Model SL-402JSD	
SLM Serial Number:	Q652517	
Calibration Validity:	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			L _{eq,T}	L _{Amax}	L _{Amin}	L _A _{90,T}	L _{eq} _{Day}	L _{eq} _{Night}	Day Time	Night Time
08.00 AM	24 hrs	29.09.2021	68.4	71.2	52.7	70.7	68.4	54.3	75	70

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include Movement of vehicles mainly two wheelers, transportation of tippers.	Values ranged from 52.7 to 71.2 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)


 Env. Engineer



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B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gal: Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date: 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level Month: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	West Boundary	
Temperature:		<i>Celsius: 27.5</i>
Wind speed(m/s):	<i>AVG: 3.2</i>	<i>MAX: 6.8</i>
Wind Direction:	SW-NE	
Cloud Cover:	Clear	<i>Octas - 4/8</i>
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			$L_{eq,T}$	LA_{max}	LA_{min}	$LA_{90,T}$	$L_{eq Day}$	$L_{eq Night}$	Day Time	Night Time
09.00 AM	24 hrs	29.09.2021	66.8	69.5	53.5	68.9	66.8	55.4	75	70

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include Movement of vehicles mainly two wheelers, transportation of tippers.	Values ranged from 53.5 to 69.5 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)


Env. Engineer



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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date: 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	North Boundary	
Temperature:		°Celsius: 27.3
Wind speed(m/s):	AVG: 3.0	MAX: 6.6
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas - 4/8
SLM type:	Lutron. Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			L _{eq,T}	L _{Amax}	L _{A90s}	L _A D _{OT}	L _{eq} Day	L _{eq} Night	Day Time	Night Time
08.30 AM	24 hrs	29.09.2021	67.1	70.8	53.7	69.5	67.1	56.3	75	70

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 53.7 to 70.8 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of litters.		


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Recognized by MoEF & CC, Govt. Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09	Issued to:
Reporting Date: 01.10.2021	Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Description: Ambient Noise Level	
Month: September-2021	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,	

Measurement Location:	South Boundary	
Temperature:		*Celsius: 28.2
Wind speed(m/s):	AVG: 3.5	MAX: 7.9
Wind Direction:	SW NE	
Cloud Cover:	Clear	Octas - 4/8
SLM type:	Lutron, Model SL-4023SD	
SLM Serial Number:	Q652517	
Calibration Validity:	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start Time	Duration	Date	Noise Level (dB (A))						Applicable Standard (dB (A))	
			L _{eq,T}	LA _{max}	LA _{min}	LA _{90,T}	Leq Day	Leq Night	Day Time	Night Time
09.30 AM	24 hrs	29.09.2021	69.2	71.4	57.9	71.1	69.2	60.2	75	70

Noted noise source/s, events and contribution level details:

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:ss)
No specific source.		
Village activities prevailing which include	Values ranged from 57.9 to 71.4 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tippers.		



Env. Engineer

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