



Regd. Office: JSW Centre Bandra Kurla Complex,

Bandra (East), Mumbai – 400 051 CIN : L27102MH1994PLC152925

Phone : +91 22 4286 1000 Fax : +91 22 4286 3000

Website: www.jsw.in

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, Chandersekharpur, Bhubaneswar – 751023

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

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°.			
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 I Ministry vide F. No. 11-362/2012-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 Annexure 1a . 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 recirculated 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.

xxiv	in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded. Sewage treatment plant shall be installed for the colony. ETP shall also be provided for workshop and wastewater generated during mining operation.	Vehicular emissions being regularly monitored. Also, Security personnel are also do not allow the vehicles to enter into the mines without having valid PUC. 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		
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.	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		
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. The project proponent shall undertake all	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. Jajang Mining operation was started from 1 st July		
	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.	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 Pan 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	Final Mine Closure plan was approved by erstwhile
	details of Corpus Fund shall be submitted	lessee. After the expiry of the lease on 31.03.2020,
	to the Ministry of Environment & Forests	the lease was put for auction.
	5 years in advance of final mine closure	After getting the lease through auction, mining plan
	for approval.	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	Not Applicable. There is no EC and CTO available		
	Processing/Beneficiation technology and	for the beneficiation plant.		
	scope of working should be made without			
	prior approval of the Ministry of			
	Environment & Forests.			
ii	No change in the calendar plan including	Noted and Being complied as per approved mine		
	Processing/Beneficiation of mineral iron	plan. There is no EC and CTO available for the		
	ore and waste should be made.	beneficiation plant.		
iii	At least four ambient air quality-	Regular Ambient air quality monitoring being		
	monitoring stations should be established	carried out at four AAQ monitoring stations in core		
	in the core zone as well as in the buffer	zone and four stations in buffer zone. AAQ		
	zone for RSPM (Particulate matter with	monitoring reports are attached as Annexure 1a.		
	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			

	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 Annexure 1c .		
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 checkup 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

	C 1	
	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	Not Applicable
	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.	
XV	The environmental statement for each	Will be complied within timeline.
	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.	Not Applicable
xvi	The project authorities should advertise at	Not Applicable
	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.	

JAJANG IRON ORE MINES

AAQ REPORT

APRIL - 2021



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

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-04 Issaed to: Reporting Analysis 03.05,202101.05.2021 Date Starting on Jajang Iron Ore Sample Analysis 01.05.202103.05.2021 Mines Received on Completed on οf Sample Description: Ambient Air Quality M/s JSW Steel Ltd. Location : Mines Office Month : April-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [μ g /m ³]	\$O₂ [µg/m³]	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
	01/04/2021	64	23	9.9	11+	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	05/04/2021	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
124	Standards 4 hourly andard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 (µg/m³)	02 [mg/m ³] (8 hourly)

Legend: PM 10-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,

Phone : +91 40 49783062 / 27018806 Fax : +91 40 49783063 Eine Jab@bsenvitech.com. info@bsenvitech (x)m

Website I www.bschvitech.com CIN No. EU7421t/TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021 Analysis Completed on		03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality	511	of
Location	M/s JSW Steel Ltd.			
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [μg/m ³]	8O 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
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	[3.3	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
- 1	verage	65	23	11.0	12.5	0.58
NAAQ (24	Standards 4 hourly andard)	100 [µg/m³]	60 (µg/m³)	80 (µg/m³)	[hā\æ ₃] 80	02 [mg/m³] (8 hourly)

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

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

802-Sulphur Dioxide

NO2- NitrogenDioxide

CO-Carbon Monoxide

Authorized Signatory

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CIN No. # U74210TG1999PTC03235B



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Entry	& Exit Gate		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [μg/m³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	18:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 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	114	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
П	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
t5	15/04/2021	65	24	11.1	12.5	0.59
(24	Standards 4 hourly andard)	100 [µg/m³]	60 [μg/m²]	80 [μg/m³]	80 [µg/m³]	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, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	JSW/JIOM/H	NV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	AL OS ODOS Analysis		03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Entry	& Exit Gate		M/s JSW Steel Ltd.
Month				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	ij.	

S.NO	DATE	PM ₁₀ [µg/m ²]	PM _{2.5} [μg/m ³]	SO ₂ [µg/m³]	ΝΟ 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
16	16/04/2021	68	26	12.5	13.7	0.67
17	17/04/2021	58	20	1.3	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	2.3	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	l2 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
A	verage	68	25	11.7	13.1	0.64
(24	Standards 4 hourly andard)	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. : U74210TG1999PTCf(32358)



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TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Ambi	ent Air Quality		of
Location	: Reside	ential Colony		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	,	

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [µg/m³]	8O ₂ [μg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	19:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP AA-09
	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	[].8	0.61
H.	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
(24	Standards hourly andard)	100 [µg/m³]	60 [μg/m³]	80 [µg/m²³)	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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Email



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-04	Issued to:
Reporting 03.05.2021		Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021 Analysis Completed on		03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Ambi	ent Air Quality		of
Location	: Reside	ential Colony		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd.	.,	

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [µg/m ³]	80 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	18:5182 Part 6	BSET SOP
16	16/04/2021	5l	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
(24	Standards 4 hourly andard)	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)

PM25-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

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CIN No. 3 U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021 Analysis Completed on		03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality		of
Location	: Work	Shop Area		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd		T

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.8} [μg/m ³]	SO ₂ (μg/m³)	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
- 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	7 l	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
(24	Standards hourly andard)	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_{3.5}-Particulate Matter(Size Less than 2.5µm)

SO₄-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

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CIN No. : U7421ITG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Work	Shop Area		M/s JSW Steel Ltd.
Month	: April-2	2021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [μg/m³]	6O ₂ [µg/m ³]	NO ₂ [μg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
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	7.3	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
A	verage	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)

PM2.5-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

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CIN No. 1174210TG1999PTC032358



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

TEST REPORT

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

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [μg/m ²]	SO ₂ [μg/m ³]	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
L	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	SS	19	11.5	12.9	0.58
6	20/04/2021	69	25	11.2	12.6	0.71
7	26/04/2021	66	2.3	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. # U74210TG1999PTC032358

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TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Ambie	ent Air Quality		of
Location	: Jeriba	that Village		M/s JSW Steel Ltd.
Month	= : April-2	2021		
Sample Collec	eted by: B.S.	Envi Tech (P) Ltd	.,	

8.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [μg/m ³]	8O ₂ [μg/m ³]	NO ₂ [μg/m²]	CO (mg/m ³)
	Protocol	18:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
	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 [jig/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

zed Signatory

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

TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Badhu	iabeda Village		M/a JSW Steel Ltd.
Month	: April-2	2021		
Sample Collec	eted by; B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM ₁₀ (μg/m ³)	PM _{2.5} [μg/m ³]	5O ₂ [μg/m ³]	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
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	61	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
- /	verage	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

Authorized Signatory

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TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-04	Issued to:
Reporting Date	03.05,2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Kama	lpur Village		M/s JSW Steel Ltd.
Month : April-2021				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd		

S.NO	DATE	PM ₁₀ [μg/m ³]	РМ _{2.5} [µg/m³]	80 ₂ [µg/m²]	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	18:5182 Part 23	18:5182 Part 24	18:5182 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	9.5	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
- 4	lverage	55	19	8.8	10.2	0.31
NAAQ Standarda (24 hourly standard)		100 [µg/m3]	60 [µg/m3]	80 (µg/m3)	80 [µg/m3]	02 [mg/m3] (6 hourly)

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

PM2.8-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

"Complainte Register is available at Laboratory

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Website (www.nsenvitech.com CIN No.: FU74210TG) 999PTC032358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

APRIL - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/FDM,	2021-04	Issued to:
Reporting Date	03.05,2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Fugiti	ve Dust Monitori	ng	of M/s JSW Steel Ltd.
Location	Location : Crusher Plant			
Month	: April-2	2021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,	

S.NO	DATE	SPM [μg/m³]	Standards as per CTO
1	01/04/2021	675	
2	02/04/2021	722	
3	03/04/2021	597	
4	04/04/2021	582	
5	05/04/2021	697	
б	06/04/2021	737	
7	07/04/2021	590	
В	08/04/2021	683	1
9	09/04/2021	751	1
10	10/04/2021	823	1
11	11/04/2021	716	1
12	12/04/2021	584	
13	13/04/2021	598	1
14	14/04/2021	663	1
ไอ้	15/04/2021	650	
l6	16/04/2021	580	1200
17	17/04/2021	725	(μ g/m²)
18	18/04/2021	663	
19	19/04/2021	650	1
20	20/04/2021	750	
21	21/04/2021	711	1
22	22/04/2021	597	
23	23/04/2021	813	1
24	24/04/2021	770	
25	25/04/2021	681	1
26	26/04/2021	592	1
27	27/04/2021	763	1
28	28/04/2021	749	1
29	29/04/2021	814	
30	30/04/2021	782	1
-	lverage	690	1

Legend: SPM-Suspended Particulate Matter



*Complaints Register is available at Laboratory.

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

TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Fugiti	ve Dust Monitori	ng	of
Location	: Worki	ng Pit Block-B		M/s JSW Steel Ltd
Month	: April-2	021		
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
1	01/04/2021	825	
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	
12	11/04/2021	831	
12	12/04/2021	650	
13	13/04/2021	794	1
14	14/04/2021	832	1
15	15/04/2021	722	1
16	16/04/2021	690	1200
17	17/04/2021	664	[µg/m³]
18	18/04/2021	780	1
19	19/04/2021	839	1
20	20/04/2021	794	1
21	21/04/2021	745	1
22	22/04/2021	682	10
23	23/04/2021	633	1
24	24/04/2021	B12	1
25	25/04/2021	825	1
26	26/04/2021	679	1
27	27/04/2021	729	1
28	28/04/2021	713	
29	29/04/2021	685	
30	30/04/2021	820	1
A	verage	749	

Legend:SPM-Suspended Particulate Matter

"Complaints Register is available at Laboratory

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horized Signatory

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CIN No.: U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/FDM/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	i ption: Fugiti	ve Dust Monitori	ng	of
Location : Loading Area Block B Month : April-2021				M/s JSW Steel Lt
		Envi Tech (P) Ltd	.1	

.NO	DATE	SPM [µg/m³]	Standards as per CTO
L	01/04/2021	550	
2	02/04/2021	681	
3	03/04/2021	636	1
4	04/04/2021	588	1
5	05/04/2021	719	1
6	05/04/2021	684	1
7	07/04/2021	794	1
8	08/04/2021	539	1
9	09/04/2021	684	1
10	10/04/2021	582	1
1]	11/04/2021	798	1
12	12/04/2021	712	1
13	13/04/2021	541	1200
14	14/04/2021	590	
15	15/04/2021	580	[hg/m³]
16	16/04/2021	793	1
17	17/04/2021	713	1
18	18/04/2021	550	1
19	19/04/2021	627	1
20	20/04/2021	582	1
21	21/04/2021	688	
22	22/04/2021	749	1
23	23/04/2021	717	1
24	24/04/2021	590	1
25	25/04/2021	693	
26	26/04/2021	784	
27	27/04/2021	527	1
28	28/04/2021	€47	1
29	29/04/2021	673	
30	30/04/2021	584	
A	verage	653	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

*Complaints Register is available at Leberatory

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Websile I www.bsenvitech.com CIN No. 174210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	of
Location	: Ilaul I	Road CB Block	_	M/s JSW Steel Ltd.
Month	: April-2	2021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	SPM [µg/m³]	Standards as per CTC
1	01/04/2021	831	
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	1
7	07/04/2021	683	
8	08/04/2021	770	
9	09/04/2021	594	
10	10/04/2021	B11	
1:	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	1200
17	17/04/2021	590	[μ g/m 3]
18	18/04/2021	772	
19	19/04/2021	585	
20	20/04/2021	675	
21	21/04/2021	724	1
22	22/04/2021	812	
23	23/04/2021	580	1
24	24/04/2021	735	1
25	25/04/2021	718	1
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	
- 1	Asiage	695	

Legend:SPM-Suspended Particulate Matter

athorized Signatory

"Complaints Register is available at Laboratory.

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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-04			
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysia Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	lption: Fugiti	ve Dust Monitori	ng	of
Location	M/s JSW Steel Ltd.			
Month	: April-2			
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd		

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
1	01/04/2021	847	
2	02/04/2021	826	
3	03/04/2021	879	
4	04/04/2021	649	1
5	05/04/2021	783	1
6	06/04/2021	717	1
7	07/04/2021	795	1
8	08/04/2021	862	1
9	09/04/2021	698	
10	10/04/2021	793	1
11	11/04/2021	855	
12	12/04/2021	813	1
13	13/04/2021	641	1200
14	14/04/2021	680	
15	15/04/2021	794	[րգ/այ
16	16/04/2021	857	
17	17/04/2021	863	
18	18/04/2021	717	
19	19/04/2021	690	1
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	
- 1	lverage	771	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

*Complainty Register's available at Laboratory

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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/FDM/	2021-04	Issued to:
Reporting Date	03.05.2021	Analysis Starting on	01.05.2021	
Sample Received on	01.05.2021	Analysis Completed on	03.05.2021	Jajang Iron Ore Mines
Sample Descr	iption : Fugiti	ve Dust Monitori	ng	of
Location	: OB Di	amp-4		M/s JSW Steel Ltd
Month	: April-2	2021		
Sample Collect	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	8PM [µg/m³]	Standards as per CTO
1	01/04/2021	512	
2	02/04/2021	581	
3	03/04/2021	645	
4	04/04/2021	520	
5	05/04/2021	683	1
Ģ	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	
[4	14/04/2021	638	
15	15/04/2021	585	
16	16/04/2021	663	1200
17	17/04/2021	597	[µg/m³]
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	1
28	28/04/2021	684	
29	29/04/2021	663	
30	30/04/2021	578	
- 1	verage	619	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

*Complaints Register's available at Laboratory.

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JAJANG IRON ORE MINES

AAQ REPORT

MAY - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	Issued to:		
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality	1	of
Location : Mines Office			M/s JSW Steel Ltd.	
Month : May-2021				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	"1	

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m³]	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	18:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
	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	2+	9.6	11	0.52
6	06/05/2021	57	20	10.7	12.1	0.58
7	07/05/2021	63	22	99	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
24	Standards 4 hourly andard)	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)

PM2.5-Particulate Matter(Size Less than 2.5pm)

SO₂-Sulphur Dioxide

NO2- NitrogenDioxide

CO-Carbon Monoxide

Authorized Signatory

*Complaints Register is available at Laboratory.

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CIN No. 1074210TG1999PTC032368



Recognized by MoEF & CC, Gol: 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	
Sample Received on	01.06.2021 Analysis Completed on		02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality	MI =	of
Location	M/s JSW Steel Ltd.			
Month : May-2021				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,	

S.NO	DATE	PM ₁₀ [µg/m ³]	PM _{2.5} [μg/m ³]	8O ₂ [µg/m³]	NO ₂ [μg/m ³]	CO [mg/m ³]
	Protocol	IS:51B2 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
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	11.7	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	5D	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)

PM2.5-Particulate Matter(Size Less than 2.5µm)

802-Sulphur Dioxide

NO2- NitrogenDioxide

CO-Carbon Monoxide

orized Signatory

"Complaints Register is available at Laboratory.

CIN No. #U74210TG1999PTC032358



Recognized by MoEF & CC, Gol: 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	
Sample Received on	01.06.2021 Analysis Completed on		02.06.2021	Jajang Iron Ore Mines
Sample Descr	i ption : Ambi	ent Air Quality		of
Location	M/s JSW Steel Ltd.			
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	DATE	PM ₁₀ [µg/m ³] IS:5182 Part 23	PM _{2.5} [µg/m ³] IS:5162 Part 24	80 ₂ [μg/m ³] [8:5182 Part 2	NO ₂ [µg/m³] IS:5182 Part 6	CO [mg/m³] BSET SOP AA-09
	Protocol					
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
_ 1	04/05/2021	61	22	10.9	12.3	0.56
5	03/05/2021	66	24	11 1	12.8	0.61
6	06/05/2021	70	26	10.5	11.9	0.72
7	07/05/2021	Sti	19	11.4	12.7	0.65
8	08/05/2021	65	23	11.8	13.3	0.53
9	09/05/2021	16	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
(24	Standards 4 hourly anderd)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	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

"Complaints Register is avaitable at 🕍

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

TEST REPORT

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

S.NO	DATE	PM ₁₀ [µg/m²]	PM _{2.5} [μg/m ³]	SO ₂ [µg/m³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP	
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	36	19	10.5	11.6	0.61
20	20/05/2021	67	24	99	11.4	0.72
21	21/05/2021	64	23	11.5	13.1	0.68
22	22/05/2021	7t	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	l l	12 +	0.58
31	31/05/2021	62	22	10.4	11.7	0.77
	verage	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/m ³] (8 hourly)

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

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

802-Sulphur Dioxide NO2- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

*Complaints Register is available at Laboratory.

Telangana, India

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Website : www.bsenvitech.com CIN No #U7421IITG1999PTC032358



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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05					
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021			
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambie	ent Air Quality		of		
Location	: Reside	ential Colony		M/s JSW Steel Ltd.		
Month						
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	1)			

S,NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [μg/m³]	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 I	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
В	08/05/2021	56	24	9.2	10.6	0.44
9	09/05/2021	5/1	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	2:	10.7	12.4	0.41
(24	Standards 4 hourly andard)	100 [µg/m³]	60 [pg/m³]	80 [μg/m³]	80 [pg/m³]	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

*Complaints Register's available at Laboratory B

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CIN No. #J74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Reside	ential Colony		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	9	

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} (μg/m³]	SO ₂ [μg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	19:5182 Part 6	BSET SOP
16	16/05/2021	5.1	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	- Gl	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. l	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
	verage	58	20	9.9	11.4	0.46
NAAQ (24	Standards 4 hourly andard)	100 [µg/m³]	60 [μg/m ^g]	80 [μg/m³]	80 [µg/m²)	02 [mg/m³] (8 hourly)

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

PM2.5-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

*Complaints Register's available at

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thorized Signatory

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TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05					
Reporting Date	02.06,2021	Analysis Starting on	01.06.2021			
Sample Received on	Ol Oc 2021 Analysis		02.06.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambie	ent Air Quality		of		
Location	: Work	Shop Area		M/s JSW Steel Ltd.		
Month						
Sample Collec	Month : May-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,					

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [μg/m ³]	80 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	δt	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
(24	Standards hourly andard)	100 [µg/m³]	60 [μg/ m ³]	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)

80₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

*Complaints Register is available at Laboratory

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



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Work	Shop Area		M/s JSW Steel Ltd.
Month				
Sample Collec	cted 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/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23		I8:5182 Part 2	IS:5182 Part 6	BSET SOP
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
	verage	63	24	11.4	12.9	0.63
NAAQ (24	Standards hourly andard)	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. J74210TG1989PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021 Analysis Completed on		02.06,2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location	: Jajang	g Village		M/s JSW Steel Ltd.
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

S.NO	Protocol IS:5	PM ₁₀ [µg/m³]	PM _{2.5} [μg/m³]	SO ₂ [μg/m ³]	NO ₂ [µg/tn ³]	CO [mg/m³]
		IS:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
l	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
- 1	Lverage	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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*Complaints Register is available at Laboratory

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CIN No. 0 U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021		
Sample Received on	01.06.2021	Analysia Completed on	02.06.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Ambie	ent Air Quality		of.	
Location	M/s JSW Steel Ltd.				
Month					
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,		

S.NO	DATE	PM ₁₀ [pg/m ³]	PM _{2.5} [μg/m ³]	8O ₂ [μg/m³]	NO ₂ (µg/m³]	CO [mg/m³]
Protoc	Protocol IS:51	IS:5182 Part 23	IS:5182 Part 24	[8:5182 Part 2	IS:5182 Part 6	BSET SOP
l	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	D.57
8	25/05/2021	59	21	10.5	11.8	0.7
- 1	lverage	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)

80₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

"Complaints Register is available at Laboratory

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CIN No. 1U74210TG1999PTG032358



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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05					
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021			
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambie	ent Air Quality		of		
Location	M/s JSW Steel Ltd.					
Month						
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.1			

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	80 ₂ [μg/m ³]	NO ₂ [μg/m ³]	CO [mg/m³]
Prote	Protocol 18:5	18:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
l	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
- /	lverage	60	22	10.1	11.6	0.54
NAAQ Standards (24 hourly standard)		100 [µg/m3]	60 [µg/m3]	80 [µg/m3]	80 [ng/m3]	02 [mg/m3] (8 hourly)

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

PM2.3-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dloxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

zed Signatory

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CIN No. 1 U74210TG 1899PTC032356



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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-05				
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021		
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines	
Sample Descr	lption: Ambie	ent Air Quality		lo	
Location	M/s JSW Steel Ltd				
Month					
Sample Collec					

S.NO	DATE	PM ₁₀ (μg/m³]	PM _{2.8} [μg/m³]	SO ₂ [µg/m³]	NO ₂ [μg/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	t8:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP
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	B.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
- 1	lverage	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



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Website : www.bsenvitech.com

CIN No. #U74210TG1999PTC032358

JAJANG IRON ORE MINES

MINERALOGICAL COMPOSITION REPORT

MAY - 2021



Recognized by MoEF & CC, Gol: 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		23.12	
Calcium as CaO		0.56	
Magnesium as MgO	Dr. borrer	1.08	
Alumina as Al ₂ O ₃	% by mass	17.52	
Iron as Fe ₂ O ₃		41.26 8.4	
Loss of Ignition			

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

Authorised Signatory

*Complaints Register is available at Laboratory.

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

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

MAY - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	SNV/2021/FDM/	/2021-05	Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06 2021	Jajang Iron Ore Mines
Sample Descr	iption: Fugiti	ive Dust Monitori	ng	of
Location : Crusher Plant				M/s JSW Steel Ltd.
Month	: May-2			
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,	

S.NO	DATE	SPM (µg/m³)	Standards as per CTO
L	01/05/2021	847	•
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	7
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	395	
15	15/05/2021	822	
16	16/05/2021	695	1200
17	17/05/2021	764	[μg/m ³]
18	18/05/2021	799	1
19	19/05/2021	514	1
20	20/05/2021	650	1
21	21/05/2021	668	1
22	22/05/2021	944	1
23	23/05/2021	860	1
24	24/05/2021	843	1
25	25/05/2021	913	1
26	26/05/2021	444	1
27	27/05/2021	470	1
28	28/05/2021	491	1
29	29/05/2021	523	1
30	30/05/2021	545	1
31	31/05/2021	599	1
	verage	704	1

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

"Complaints Register is available at Laboratory.

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CIN No. # U74210TG1999PTCC32358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	SNV/2021/FDM/	2021-05	Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	of
Location	M/s JSW Steel Ltd			
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	

Standar	SPM (µg/m³)	dards as per CTO
	726	-
	827	
	912	
4	585	
	698	
	856	
	755	
	696	
	772	
	794	
	822	
	962	
	977	
	679	
	597	
	822	1200
	726	$[\mu \mathbf{g}/\mathbf{m}^3]$
	749	
	560	
	647	
	795	
	692	
	715	
	820	
	746	
	506	
	491	
	532	
	548	
	580	
	612	
	716	

Legend:SPM-Suspended Particulate Matter

thorized Signatory

"Complaints Register is available at Laboratory

4* Floor, 'AMITY VILLE' 12-13-1270/71/73. St. Ann's Road, Tamaka, Secunderabad - 500017, Telangana, India:

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Website #www.bservitoch.com

CIN No. #U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/F	NV/2021/FDM/	2021-05	Issued to:
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	of
Location	M/s JSW Steel Ltd			
Month				
Sample Coller	eted by: B.S.	Envi-Tech (P) Ltd	.1	

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
l	01/05/2021	795	
2	02/05/2021	613	
3	03/03/2021	573	1
4	04/05/2021	585	7
5	05/05/2021	696	
б	06/05/2021	739	1
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	1200
17	17/05/2021	649	[μ g/m³]
18	18/05/2021	815	
19	19/05/2021	750	
20	20/05/2021	711	7
21	21/05/2021	644	
22	22/05/2021	682	1
23	23/05/2021	819	1
24	24/05/2021	S85	1
25	25/05/2021	894	
26	26/05/2021	467	1
27	27/05/2021	505	1
28	28/05/2021	526	1
29	29/05/2021	571	1
30	30/05/2021	616	1
31	31/05/2021	644	1
- 1	Verage	687	

Legend:SPM-Suspended Particulate Matter

ed Signatory

*Complaints Register is available at Laboratory

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Telangana, India.

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CIN No 1 L174210TG1999PTCII32358



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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-05				
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021		
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Fugiti	ve Dust Monitori	ng	of	
Location	M/s JSW Steel Ltd				
Month	: May-2				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,		

s.No	DATE	SPM (µg/m³]	Standards as per CTO
	01/05/2021	749	
2	02/05/2021	581	
3	03/05/2021	795	
4	04/05/2021	8:23]
5	05/05/2021	810	
6	06/05/2021	947	7
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	1
12	12/05/2021	792	
13	13/05/2021	815	
14	14/05/2021	737	
15	15/05/2021	773	1
16	16/05/2021	865	1200
17	17/05/2021	882	[μ g/m ³]
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

Complaints Registeres évaluable at La Complaints Registeres évaluable at La Complaints

4" Floor, 'AMITY VILLE', 12-13-1270/71/73, St. Ann's Road, Tarnaka,

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thorized Signatory

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CIN No. : U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	01.06.2021	Analysis Completed on	02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption: Fugiti	ive Dust Monitori	ng	of
Location : Screen Plant				M/s JSW Steel Ltd.
Month				
Sample Collect	cted by: B.S.	Envi-Tech (P) Ltd	12	

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
]	01/05/2021	913	
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	1
7	07/05/2021	689	1
8	08/05/2021	839	
9	09/05/2021	913	
10	10/05/2021	766	
TI :	11/05/2021	945	
12	12/05/2021	902	
13	13/05/2021	748	1200
14	14/05/2021	681	
15	15/05/2021	693	[µg/m ³]
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	1
31	31/05/2021	602	1
	lverage	755	

Legend:SPM-Suspended Particulate Matter

*Compleints Registeris available at Labora

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CIN No. 1U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.06.2021	Analysis Starting on	01.06.2021	
Sample Received on	OLOG COLL Analysis		02.06.2021	Jajang Iron Ore Mines
Sample Descr	iption : Fugiti	ve Dust Monitori	ng	of
Location	M/s JSW Steel Ltd.			
Month				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,	

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
]	01/05/2021	746	
2	02/05/2021	523	
3	03/05/2021	597	
4	04/05/2021	747	
5	05/05/2023	882	
6	06/05/2021	472	
7	07/05/2021	726	
8	08/05/2021	513	1
9	09/05/2021	765	
LO .	10/05/2021	484	
11	11/05/2021	493	
12	12/05/2021	520	
13	13/05/2021	678	
14	14/05/2021	702	
15	15/05/2021	646	
16	16/05/2021	633	1200
17	17/05/2021	497	[µg/m³]
18	18/05/2021	571	
19	19/05/2021	694	
20	20/05/2021	582	
21	21/05/2021	650	1
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	
- 1	lverage	604	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

"Contplaints Register is available at Law

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

JAJANG IRON ORE MINES

AAQ REPORT

JUNE - 2021



Recognized by MoEF & CC, Gol: Valld upto August, 2022

TEST REPORT

REPORT NO:	EPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06						
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021				
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines			
Sample Descr	iption: Ambi	ent Air Quality		of			
Location : Mines Office				M/s JSW Steel Ltd			
Month	: June-:	2021					
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.1				
Instruments	used Res	pirable Dust Sam	pler & Fine de	ust Sampler			
Model		rico RDS / El 142		-			
Serial no	58-						
Calibration va	didity 05/	10/2021 & 19/19	0/2021				

s.no	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
1	01/06/2021	0 4	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	D.41
5	05/06/2021	61	22	10.3	11.8	0.35
6	06/06/2021	66	25	9.5	10.9	D.53
7	07/06/2021	54	19	10	11.6	0.69
8	08/06/2021	51	18	10.7	12. l	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	15/05/2021	45	16	10.6	12.1	0.39
(24	Standards 4 hourly andard	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m ³] (8 hourly)

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

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

802-Sulphur Dioxide

NO2- NitrogenDioxide

CO-Carbon Monoxide

*Complaints Register is evaluable at Laboratory.

4" Floor, 'AMITY VILLE', 12 13-1270/71/73, St Ann's Road, Tameka. Secunderabad - 500017, Telangana, India

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C Authorized Signatory

Website : www.bsanvitech.com

CIN No. 1074210TG1999PTC032358



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

TEST REPORT

REPORT NO:	EPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06					
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	.07.2021 Analysis Completed on		Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	M/s JSW Steel Ltd					
Month	: June-:	2021				
Sample Collec	cted by: B.S.	Envi Tech (P) Ltd	-,			
Instruments 1	used Res	pirable Dust Sam	pler & Fine du	ist Sampler		
Model Enviro RDS / EI 142 & Enviro EI 1						
Scrial no		58-K-18 & 89-G-19				
Calibration va	didity 05/	10/2021 & 19/1	0/2021			

S.NO	DATE	PM ₁₀ [µg/m ³]	РМ _{2.5} [µg/m³]	SO ₂ [μg/m³]	ΝO 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
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
2:2	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
	lverage	55	20	10.2	11.6	0.52
NAAQ (24	Standards 4 hourly anderd)	100 [µg/m³]	60 [µg/m³]	80 [μg/m³]	80 [µg/m²)	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- NitrogenDioxide

CO-Carbon Monoxide

C Authorized Signatory

"Complaints Register is aveilable at Laboratory.

Website I www.bservitech.com

CIN No. #U74210TG*999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	SNV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	i ption: Ambie	ent Air Quality		of		
Location	: Entry	& Exit Gate		M/s JSW Steel Ltd.		
Month	: June-:	2021				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,			
Instruments :	used Res	pirable Dust Sam	ipler & Fine di	ust Sampler		
Model	Model Enviro RDS / El 142 & Enviro El 1			33		
Serial no		98-G-19 & 86-G-19				
Calibration ve	didity 05/	10/2021 & 19/1	0/2021			

S.NO	DATE	PM to [µg/m³]	PM _{2.6} (μg/m ³)	SO ₂ [µg/m³]	NO ₂ (μg/m ³ j	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
l	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
б	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	ßι	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
124	Standards 4 bourly andard	100 [µg/m²]	60 [μg/m²]	Β0 [μg/m³]	ΒΟ [μg/m³]	02 [mg/m ³] (8 hourly)

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

PM_{2.8}-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO2- Nitrogen Dioxide CO-Carbon Monoxide

'Complaints Registrats available at Laboratory.

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Authorized Signatory

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CIN No. : U74210TG1999PTC032358

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

TEST REPORT

REPORT NO:	REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-06						
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021				
Sample Received on	01.07.2021	Avalysis Completed on	02.07.2021	Jajang Iron Ore Mines			
Sample Descr	iption: Ambi-	ent Air Quality		of			
Location	; Entry	& Exit Gate		M/s JSW Steel Ltd.			
Month	: June-	2021					
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,				
Instruments :		pirable Dust Sam	ist Sampler				
Model		Enviro RDS / El 142 & Enviro El 133					
Serial no	98-	98-G-19 & 86-G-19					
Calibration va	alidity 05/	05/10/2021 & 19/10/2021					

S.NO DATE	DATE	PM ₁₀ [µg/m³]	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	IB:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP
16	16/06/2021	52	19	10.9	12.3	0.69
17	17/06/2021	58	22	11.L	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	118	0.79
21	21/06/2021	61	24	11.2	12.9	0.83
22	22/06/2021	49	18	12.1	13.7	0.73
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	452	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/m ³] (8 hourly)

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

PM2.5-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

C'Authorized Signatory

"Complaints Register is available at Laboratory

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CIN No. 1074210TG1999PTC032358

Website : www.bschwiech.com



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-06	Issued to:	
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021		
Sample Received on	01.07.2021	Analysis		Jajang Iron Ore Mines	
Sample Descr	iption: Ambi	ent Air Quality		of	
Location	: Resid	ential Colony		M/s JSW Steel Ltd.	
Month	: June-2	2021			
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,		
Instruments :	used Res	pirable Dust Sam	ist Sampler		
Model	Env	Envirotech APM-460BL & Envirotech APM 550			
Serial no 2852-DTC-15 & 1102-DTC-2012					
Calibration ve	didity 19/	19/10/2021			

s.no	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [μg/m ³]	80 ₂ [µg/m³]	NO ₂ (μg/m³)	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOF
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	89	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	119	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
(24	Standards 4 hourly anderd)	100 (µg/m ³)	60 [µg/m³}	80 [µg/m³]	80 [µg/m³]	02 [mg/m ³] (8 hourly)

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

PM_{3.5}-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. #U74210TG1999PTG032358



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

TEST REPORT

REPORT NO: «	JSW/JIOM/I	SNV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	2.07.2021 Analysis Starting on				
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	: Resid	lential Colony		M/s JSW Steel Ltd.		
Month	: June-:	2021				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd				
Instruments 1	ned Ros	Respirable Dust Sampler & Fine dust Sampler				
Model	Env	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/m ³]	8O ₂ [μg/m³]	NO ₂ [μg/m³]	CO [mg/m ³]
	Protocol Part 23 Part 24 Part 2 Part	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 /	10.3	0.42
21	21/06/2021	5.3	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.B	12.4	0.39
27	27/06/2021	48	17	11	12.6	0.42
28	28/05/2021	57	22	9.3	10.9	0.36
29	29/06/2021	52	(9	10.2	11.7	0.47
30	30/06/2021	60	23	8.5	10	0.4
-	verage	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/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 *Complamis Register is available at Linbowick/BAO

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Recognized by McEF & CC, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO: J	JSW/JIOM/I	NV/2021/AAQ/	2021-06	Issued to:	
Reporting Date	02.07.2021 Analysis Starting on		01.07.2021		
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines	
Sample Descri	i ption: Ambi	ent Air Quality		of	
Location	; Work	rk Shop Area		M/s JSW Steel Ltd.	
Month	: June-2	2021			
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	,		
Instruments u	sed Ros	pirable Dust Sam	ist Sampler		
Model	Env	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/m³]	NO ₂ [μg/m ³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	15:5182 Part 2	IS:5182 Part 6	AA-09
L	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	[2.4	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
II.	11/06/2021	33	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
Tā .	15/06/2021	46	16	LL	12.7	0.67
(2	Standards 4 hourly andard	100 [µg/m³]	60 [µg/m³]	80 {µg/m³}	80 [µg/m³]	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

orized Signatory

*Complaints Register is available at Laboratory

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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	; Work	Shop Area		M/s JSW Steel Ltd		
Month	: June-	2021				
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,			
Instruments 1	used Res	Respirable Dust Sampler & Fine dust Sampler				
Model	Env	Enviro RDS/El 142 & Envirotech APM 550				
Serial no 34-L-17 & 923-DTH-2011						
Calibration va	lidity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ (μg/m³)	PM _{2.5} [μg/m²]	SO ₂ [μg/m ³]	NO ₂ [µg/m ³]	CO (mg/m³)
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOF
16	16/06/2021	44	14	11.6	1.3	0.55
17	17/06/2021	al	18	113	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	10.9	12.4	0.68
22	22/05/2021	52	19	11.9	13.3	0.61
23	23/06/2021	43]4	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	450	23	11.8	13.3	0.72
27	27/06/2021	53	20	12.1	13.7	0.45
28	28/05/2021	65	25	111	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
A	verage	57	21	11.5	13.0	0.62
NAAQ Standards (24 hourly standard)		100 [µg/æ³	60 [μg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m ³] (8 hourly)

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

PM_{2.6}-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. 3 J74210TG1999PTC032358



Recognized by MoEF & CC, Gol: 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			
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	: Jajar	ig Village		M/s JSW Steel Ltd.		
Month	: June-	2021				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd				
Instrumenta i	used Res	pirable Dust Sam	ust Sampler			
Model		Enviro RDS/El 142 & Envirotech APM 550				
Serial no	30-	30-L-17 & 1084-DTB-2012				
Calibration ve	lidity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [μg/m ³] IS:5182 Part 24	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	CO [mg/m³]
	Protocol	IS:5182 Part 23		IS:5182 Part 2	IS:5182 Part 6	BSET SOP
1	07/06/2021	59	23	11.4	12.9	0.66
2	08/06/2021	64	2+	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	[ò	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
- 1	Lverage	56	20	11.0	12.5	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m3]	60 [μg/m3]	80 [µg/m3]	80 [µg/m.3]	02 [mg/m3] (8 hourly)

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

PM2.5-Particulate Matter(Size Less than 2.5µm)

SO₂-Sulphur Dioxide NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

"Complaints Register is available at Laboratory.

Telangana, India

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Website i www.bsenvitech.com CIN No. U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JtoM/I	ENV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	.2021 Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	: Jarib	ahal Village		M/s JSW Steel Ltd.		
Month	: June-:	2021				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.1			
Instruments :	used Res	Respirable Dust Sampler & Fine dust Sampler				
Model	Env	Enviro RDS/El 142 & Enviro El 133				
Serial no	33-	33-L-17 & 40-L-17				
Calibration va	didity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.8} [μg/m ³] IS:5182 Part 24	8O ₂ [μg/m ³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	18:5182 Part 23		IS:5182 Part 2	IS:5182 Part 6	BSET SOP
-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	65	25	11.9	13.4	0.68
8	29/06/2021	59	22	12.1	13.7	0.61
	verage	58	22	11.5	13.1	0.65
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)

80₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

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CIN No. : U74210TG1999PTC032358



Recognized by McEF & CC, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	Analysis Completed on		Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location	: Badh	uabeda Villago		M/s JSW Steel Ltd.		
Month	: June-:	2021				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	'1			
Instrumente	used Res	Respirable Dust Sampler & Fine dust Sampler				
Model		Enviro RDS/El 142 & Envirotech APM 550				
Serial no	30-3	30-L-17 & 1084-DTB-2012				
Calibration ve	alidity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} (μg/m ²)	SO ₂ [μg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol 19:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP	
	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	113	0.47
4	15/06/2021	+3	15	9.5	10.9	0.55
5	21/06/2021	āl	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
- 1	verage	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)

80₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-06	Issued to:		
Reporting Date	02.07.2021	7.2021 Analysis Starting on	01.07.2021			
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Arabi	ent Air Quality		of		
Location	: Kama	alpur Village		M/s JSW Steel Ltd.		
Month	: June-1	. –				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	4			
Instruments o	ised Res	pirable Dust Sam	pler & Fine do	ist Sampler		
Model		Enviro RDS/El 142 & Enviro El 133				
Serial no		33-L-17 & 40-L-17				
Calibration va		19/10/2021				

S.NO	DATE	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [µg/m ³]	SO ₃ [µg/m³]	NO ₂ [µg/m³)	CO [mg/m³)
	Protocol	IS:5182 Part 23	IS:51B2 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP	
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	
. A	verage	48	17	8.7	10.2	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

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"Complaints Register is available at Laboratory."

CIN No # U74210TG1999PTC032358

Email

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

JUNE - 2021



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

REPORT NO:	Issued to:				
Reporting 02.07.2021 Analysis Date Starting on			01.07.2021	Jajang Iron Ore Mines of	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	M/s JSW Steel Ltd.	
Sample Descr	iption:		Instrument	Respirable Dust	
Fugitive Dust !	Monitoring		Used	Sampler	
Location	: Crushe	er Plant	Model	Enviro RDS / El 142	
Month	: June 2	021	Serial no	103-G-19	
Sample Collec	eted by: B.S. E	Invi-Tech (P) Ltd.,	Calibration Validity	19/10/2021	

Standards as per CTO	SPM [µg/m³]	DATE	3.NO
	755	01/06/2021]
	732	02/06/2021	2
	830	03/06/2021	3
	813	04/06/2021	4
	B09	05/06/2021	5
	846	06/06/2021	6
	795	07/06/2021	7
	712	08/06/2021	8
	763	09/06/2021	9
	683	10/06/2021	10
	491	11/06/2021	11
	537	12/06/2021	12
	514	13/06/2021	13
	490	14/06/2021	14
	570	15/06/2021	15
1200	443	16/06/2021	16
[µg/m³]	445	17/06/2021	17
	695	18/06/2021	18
	581	19/06/2021	19
	563	20/06/2021	20
	713	21/06/2021	21
	750	22/06/2021	22
	463	23/06/2021	23
	B13	24/06/2021	24
	741	25/06/2021	25
	765	26/06/2021	26
	580	27/06/2021	27
	724	28/06/2021	28
	760	29/06/2021	29
	749	30/06/2021	30
	671	verage	A

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

*Complaints Register is available al Laboratory

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

TEST REPORT

REPORT NO:	Issued to:				
Reporting 02.07.2021 Analysis Starting on			01.07.2021	Jajang Iron Ore Mines of	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	M/s JSW Steel Ltd.	
Sample Descr Fugitive Dust I			Instrument Used	Respirable Dust Sampler	
Location	: Workin	g Pit Block-B	Model	Enviro RDS / El 142	
Month ; June-2021			Serial no	140-G-20	
Sample Collec	sted by: B.S. F	Invi-Tech (P) Ltd.,	Calibration Validity	27/10/2021	

S.NO	DATE	SPM (µg/m³)	Standards as per CTO
1	01/06/2021	682	
2	02/06/2021	B24	1
3	03/06/2021	740	1
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	13/96/2021	503	1
14	14/06/2021	441	
15	15/06/2021	516	
16	16/06/2021	450	1200
17	17/06/2021	522	[μg/m ³]
18	18/06/2021	781	
19	19/06/2021	826].
20	20/06/2021	802	1
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]
A	Average	641	Total Control of the

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

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*Complaints Register is available at Laboratory.

Website / www.bsenvitech.com

CIN No. #U74210TG1999PTC032358

Email



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

TEST REPORT

REPORT NO:	Issued to:				
Reporting 02.07.2021 Analysis Starting on			01.07.2021	Jajang Iron Ore Mines of	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	M/s JSW Steel Ltd.	
Sample Descr Fugitive Dust I	-	10 - Ea	Instrument Used	Respirable Dust Sampler	
Location	: Loadin:	g Area Block B	Model	Enviro RDS / El 142	
Month : June-2021			Serial no	61-K-18	
Sample Collec	ted by: B.S. E	Invi-Tech (P) Ltd.,	Calibration Validity	19/10/2021	

S.NO	DATE	SPM [µg/m²]	Standards as per CTO
1	01/06/2021	685	
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	1
15	15/06/2021	487	1
16	16/06/2021	516	1200
17	17/06/2021	480	[µg/m ³]
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	B13	
29	29/06/2021	572	
30	30/06/2021	733	
Average		622	

Legend:SPM-Suspended Particulate Matter

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CIN No. 3 U74210TG1999PTC032358



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TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/20	021-06	Issued to:
Reporting Date	02.07.2021	Analysis Starting on	01.07.2021	Jajang Iron Ore Mines of
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	M/s JSW Steel Ltd.
Sample Description:			Instrument	Respirable Dust
Fugitive Dust Monitoring			Used	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 (F) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
1	01/06/2021	750	
2	02/06/2021	826	
3	03/06/2021	613	
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	1
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	1
15	15/06/2021	463	1
16	16/05/2021	530	1200
17	17/06/2021	195	[µg/m³]
18	18/06/2021	811	
19	19/06/2021	722]
20	20/06/2021	620]
21	21/06/2021	B23	1
22	22/06/2021	517	
23	23/06/2021	533	1
24	24/06/2021	675]
25	25/06/2021	B24	
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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CIN No. #U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	Isaned to:		
Reporting 02.07.2021 Analysis Starting on		01.07.2021	Jajang Iron Ore Mine of	
Sample Received on	01.07.2021	Analysis Completed on	02.07.2021	M/s JSW Steel Ltd.
Sample Descr	iption:		Instrument	Respirable Dust
Fugitive Dust I	Monitoring		Used	Sampler
Location	: Screen	Plant	Model	Enviro RDS / El 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	\$PM (µg/m³)	Standards as per CTO
1	01/06/2021	867	
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	1
10	10/06/2021	502	
11	11/06/2021	494	
12	12/06/2021	483	
13	13/06/2021	448	1200
14	14/06/2021	496	
15	15/06/2021	St5	[µg/m³]
16	16/06/2021	484	
17	17/06/2021	784	1
18	18/06/2021	827	1
19	19/06/2021	907	1
20	20/06/2021	B24	
21	21/06/2021	680	
22	22/06/2021	920	
23	23/06/2021	485	1
24	24/06/2021	736	I
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	7
30	30/06/2021	715	1
-	verage	699	1

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

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TEST REPORT

REPORT NO:	JSW/JIOM/E	Issued to:			
Reporting Date 02.07.2021 Analysis Starting on			01.07,2021	Jajang Iron Ore Mine	
Sample Received on	01.07,2021	Analysis Completed on	02.07.2021	M/a JSW Steel Ltd.	
Sample Descri Fugitive Dust l			Instrument Used	Respirable Dust Sampler	
Location	÷ OB Du	mp-4	Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO
1	01/06/2021	527	
2	02/06/2021	676	
3	03/06/2021	531	
a	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	1
12	12/06/2021	443	
13	13/06/2021	529	1
14	14/06/2021	490	
15	15/06/2021	478	
16	16/06/2021	482	1200
17	17/06/2021	517	[µg/m³]
18	18/06/2021	714	
19	19/06/2021	582	
20	20/06/2021	648	1
21	21/06/2021	619	
22	22/06/2021	546	1
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	57 6	
30	30/06/2021	719	
	verage	587	

Legend:SPM-Suspended Particulate Matter

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JAJANG IRON ORE MINES

AAQ REPORT

JULY - 2021



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TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:	
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021		
Sample Received on	02.08.2021	Apoleoia	03.08.2021	Jajang Iron Ore Mines	
Sample Descr Location/Cod Month	of M/s JSW Steel Ltd				
Sample Coller	cted by: B.S.	Envi-Tech (P) Ltd	.,		
Instruments :	used Res	pirable Dust Sam	pler & Fine de	ust Sampler	
Model Enviro RDS / El 142 & Enviro El 1				33	
Serial no 58-K-18 & 89-G-19					
Calibration ve	didity 05/	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m³]	NO ₂ [μg/m³]	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	10.6	0.48
В	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	LL	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
(2-	Standards 1 hourly andard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	[hg\u_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)

802-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

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TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/AAQ/	2021-07	Issued to:	
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021		
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines	
Location/Cod Month	e : Mines : July-2			of M/s JSW Steel Ltd.	
		Envi-Tech (P) Ltd		est Camples	
Instruments used Respirable Dust Sampler & Fit Model Enviro RDS / El 142 & Enviro					
Serial no	58-1	58-K-18 & 89-G-19			
Calibration validity 05/10/2021 & 19/10/2021					

S.NO	DATE	NO DATE PM10 [µg/m³]	PM _{2.5} [µg/m³]	5O₂ µg/m³	ΝΟ ₂ [μg/m ³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
<u>l</u> 6	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	H.I	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	H.B	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 (24	Standards 4 hourly andard)	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 a available at Laboratory

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CIN No. # U74210TG1999PTC032358



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TËST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:	
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021		
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines	
Sample Descr Location/Cod	of M/s JSW Steel Ltd.				
		Envi-Tech (P) Ltd			
Instruments (used Res	Respirable Dust Sampler & Fine dust Sampler			
Model	Env	Enviro RDS / El 142 & Enviro El 133			
Serial no	98-	98-G-19 & 86-G-19			
Calibration va	lidity 05/	05/10/2021 & 19/10/2021			

	DATE	PM ₁₀ [µg/m ⁸]	PM _{2.5} [µg/m ³]	90 ₂ (µg/m³)	NO ₂ µg/m ³	CO mg/m ³
	Protocol	18:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
1	01/07/2021	59	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
В	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	4.8	17	12.2	13.8	0.68
14	14/07/2021	52	18	11.6	12.9	0.71
15	15/07/2021	55	[9	10.5	11.8	0.62
(2	Standards 4 hourly andard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m ⁵]	80 [µg/m³]	02 [mg/m³] (8 hourly)

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

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



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambie	ent Air Quality		of
Location/Cod	e : Entry	& Exit Gate/AAQ	CZ-2	M/s JSW Steel Ltd.
Month	: July-2	021		
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	-,	
Instruments t	ised Res	pirable Dust Sam	pler & Fine de	ust Sampler
Model Enviro RDS / El 142 & Enviro El 1				.33
Serial no	98-	G-19 & 86-G-19		
Calibration ve	didity 05/	05/10/2021 & 19/10/2021		

S.NO	DATE	DATE	E PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m³]	NO ₂ [ug/m ³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	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	(3.8	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	II	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	
(2	Standards 4 hourly andard)	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)

802-Sulphur Dioxide NO2- Nitrogen Dioxide CO-Carbon Monoxide

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TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Location/Cod Month	le : Resid : July-2			of M/s JSW Steel Ltd.
Sample Collec Instruments (Envi-Tech (P) Ltd pirable Dust Sam		urt Sampler
Model		drotech APM 460		
Serial no	285	2-DTC-15 & 110	2-DTC-2012	
Calibration ve	Hidity 19/	10/2021		

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m³]	NO ₂ [µg/m ³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	18:5182 Part 2	18:5182 Part 6	BSET SOP AA-09
L	01/07/2021	46	16	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	Ü 44
4	04/07/2021	4.5	15	9.9	11.3	0.39
5	05/07/2021	54	[9	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
В	08/07/2021	45	15	8.6	10.1	0.49
9	09/07/2021	41]4	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	31	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	II)	11.3	0.42
(2	Standards 4 hourly andard)	100 (µg/m³)	60 (µg/m²]	80 [µg/m³]	80 [µg/m³]	02 mg/m² (8 hourly)

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

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

SO₂-Sulphur Dloxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

'Complaints Register's available of Laboratory

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Website I www bsanvitach.com

CIN No. # U74210TG1999PTC032358



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

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07 Issued to: Analysis Reporting 03.08.202102.08.2021Starting on Date Jajang Iron Ore Sample Analysis 03.08.202102.08.2021 Mines Received on Completed on of Sample Description: Ambient Air Quality M/s JSW Steel Ltd. : Residential Colony/AAQCZ-4 Location/Code Month : July-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd., Respirable Dust Sampler & Fine dust Sampler Instruments used Envirotech APM-460BL & Envirotech APM 550 Model 2852-DTC-15 & 1102-DTC-2012 Serial no Calibration validity 19/10/2021

S.NO	DATE	PM ₁₀ (µg/m ³)	PM _{2.6} [µg/m ³]	SO ₃ (µg/m³]	NO ₂ [μg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5162 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	LLT	12.5	0.35
24	24/07/2021	41	13	9.9	11.2	0.3
25	25/07/2021	48	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	[0.]	11.4	0.34
28	28/07/2021	36	12	10.8	12.3	0.41
29	29/07/2021	39	13		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
	verage	48	17	9.5	10.9	0.42
NAAQ (24	Standards 4 bourly anderd)	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's available at Laborators

Website 1 www.bsenvitech.com CIN No. 1 J74210TG1999PTC032358



Recognized by MoEF & CC, Gol: Valld upto August, 2022.

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-07 Issued to: Reporting Analysis 03.08.202102.08.2021Date Starting on Jajang Iron Ore Sample Analysis 02.08.202103.08.2021Mines Received on Completed on σf Sample Description: Ambient Air Quality M/s JSW Steel Ltd. : Work Shop Area/AAQCZ-3 Location/Code Month : July-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd., Respirable Dust Sampler & Fine dust Sampler Instruments used Model Enviro RDS/El 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} [ug/m ³]	80 ₂ [µg/m³]	NO ₂ [µg/m³]	CO img/m³t
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
	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	99	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	119	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
(24	Standards 4 hourly andard)	100 [µg/m³]	60 [µg/m²]	80 [µg/m³]	80 [µg/m³]	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

*Complaints Register a available at Emboration A

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CIN No. 1 U742 10TG 1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality		of
Location/Cod	le : Work	Shop Area/AAQC	Z 3	M/s JSW Steel Ltd.
Month	: July-2	021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	
Instruments :	used Res	pirable Dust Sam	pler & Fine di	ust Sampler
Model	Env	dro RDS/El 142 d	k Envirotech A	APM 550
Scrial no	34-	L-17 & 923-DTII-	2011	
Calibration va	lidity 19/	10/2021		

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{3.8} [µg/m³]	SO ₂ [µg/m ³]	NO ₂ [µg/m³]	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	16	140,4	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	16	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	0.69
NAAQ (24	Standards 4 hourly andard)	100 (µg/m³)	(hā\æ ₃	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 Complaints P

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CIN No. 1074210TG1999P1Q032358



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

TEST REPORT

REPORT NO:	JSW/JtOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Sample Descr	iption: Amble	ent Air Quality		of
Location/Cod	e : Jajan	g Village/AAQBZ-	-1	M/s JSW Steel Ltd.
Month	: July-2	021		
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,	
Instruments o	sed Res	pirable Dust Sam	pler & Fine di	ist Sampler
Model	Env	riro RDS/EI 142 8	k Envirotech /	PM 550
Serial no	30-	L-17 & 1084-DTE	3-2012	
Calibration va	lidity 19/	10/2021		

S.NO	DATE		O DATE PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m³]	SO ₂ [µg/m ³]	NO ₂ µg/m³j	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	
- /	lverage	52	18	10.9	12.3	0.59	
_) Standards urly 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

thorized Signatory

*Complaints Register is available at Laboratory

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CIN No. #U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Location/Cod Month	l e : Jariba : July-2			of M/s JSW Steel Ltd.
Sample Collec	cted by: B.S.	Envi Tech (P) Ltd	.,	
Instruments :	used Res	pirable Dust Sam	pler & Fine di	ist Sampler
Model	Env	dro RDS/EL 142 (Enviro El 13	13
Serial no	33	L-17 & 40-L-17		
Calibration ve	Шdity 19/	10/2021		

S.NO	O DATE	.	PM ₁₀ [μg/m ³]	PM _{2.5} [µg/m ⁹]	\$О₂ [µg/m³]	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP	
L	08/07/2021	57	20	12.4	13.7	0.69	
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	12.6	0.55	
8	30/07/2021	42	14	11.5	12.9	0.61	
f	Average	51	18	t1.3	12.7	0.60	
~) Standards utly 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. #J74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Sample Descri	iption: Ambi	ent Air Quality		of
Location/Cod	e : Badh	uabeda Village/A	AQBZ-3	M/s JSW Steel Ltd.
Month	: July-2	021		
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.,	
Instruments u	ised Res	pirable Dust Sam	pler & Fine de	ist Sampler
Model	Env	iro RDS/EI 142 8	k Envirotech A	u'M 550
Serial no	30-1	L-17 & 1084-DTE	-2012	
Calibration va	didity 19/	10/2021		

S.NO	DATE	PM ₁₀ (µg/m ³)	PM _{2.5} [µg/m ³] IS:5182 Part 24	80 ₂ µg/m ³ IS:5182 Part 2	NO ₂ [ug/m ³] IS:5182 Part 6	CO [mg/m³] BSET SOP AA-09
	Protocol	IS:5182 Part 23				
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
- 1	verage	49	16	10.4	11.9	0.56
_	Standards urly standard)	100 [µg/m3]	60 [µg/m3]	80 (µg/m3)	80 (g/m3	02 [mg/m3] (8 bourly)

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. # U742101 G1999PTC032358

Email



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-07	Issued to:
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	Jajang Iron Ore Mines
Sample Descr Location/Cod Month	of M/s JSW Steel Ltd.			
Sample Collect	cted by: B.S.	Envi-Tech (P) Ltd		
Instruments (used Res	pirable Dust Sam	ıpler & Fine dı	ıst Sampler
Model	Env	dro RDS/Ei 142 8	k Enviro El 13	3
Serial no 33-L-17 & 40-L-17				
Calibration va	lidity 19/	10/2021		

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.0} [µg/m³]	SO ₂ [µg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP
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	B.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
f	verage	45	15	8.5	9.9	0.29
_) Standards irly 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

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

JULY - 2021



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

TEST REPORT

REPORT NO: -	JSW/JIOM/E	Issued to:		
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	M/a JSW Steel Ltd.
Sample Descr	lption:		Instrument	Respirable Dust
Fugitive Dust 1	Monitoring		Used	Sampler
Location/Cod	e : Crusher Pt	ant/FDM-1	Model	Enviro RDS / EI 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 [µg/m²]	Standards as per CTO
	01/07/2021	716	-34
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]
Li)	10/07/2021	711]
11	11/07/2021	632	
12	12/07/2021	543]
13	13/07/2021	670	
14	14/07/2021	540	1
15	15/07/2021	582	
16	16/07/2021	726	1200
17	17/07/2021	692	[hg/m³]
18	18/07/2021	589	
19	19/07/2021	720	1
20	20/07/2021	642	1
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

Authorized Signatory

*Complaints Register is available at Laboratory

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CIN No. #U74210TG1999PTC032358



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

TEST REPORT

REPORT NO: -	Issued to:			
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of
Sample Received on	02.08.2021	Analysis Completed on	03.08.2021	M/s JSW Steel Ltd.
Sample Deser	iption:		Instrument	Resptrable Dust
Fugitive Dust 1	Monitoring		Used	Sampler
Location/Cod	e: Working Pl	f Block-B/FDM-2	Model	Enviro RDS / El 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	8PM [µg/m³]	Standards as per CTO
1	01/07/2021	823	12977
2	02/07/2021	715	
3	03/07/2021	567	
4	04/07/2021	594	
5	05/07/2021	582	1
6	06/07/2021	679	1
7	07/07/2021	594	
8	08/07/2021	816	
9	09/07/2021	802	
10	10/07/2021	543	
TL (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	1200
17	17/07/2021	513	[µg/m³]
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	3
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

Authorized Signatory

*Complaints Register is available at Laboratory.

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CIN No. :: U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of
Sample 02.08,2021 Analysis Completed on			03.08.2021	M/s JSW Steel Ltd.
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Cod	e:Loading Area	a Block B/FDM-3	Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO
1	01/07/2021	613	
2	02/07/2021	725	
3	03/07/2021	432	1
4	04/07/2021	795]
5	05/07/2021	582	
6	06/07/2021	661	
7	07/07/2021	714	1
8	08/07/2021	561	1
9	09/07/2021	595	1
10	10/07/2021	434	
11	11/07/2021	473	1
12	12/07/2021	462	
13	13/07/2021	530	1
14	14/07/2021	580	
15	15/07/2021	483	
16	16/07/2021	520	1200
17	17/07/2021	673	[µg/m³]
18	16/07/2021	471	
19	19/07/2021	478	
20	20/07/2021	443	
21	21/07/2021	530	
22	22/07/2021	558]
23	23/07/2021	476	1
24	24/07/2021	483	1
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	
- 3	Average	540	

Legend: SPM-Suspended Particulate Matter

Authorized Signatory

*Complaints Register is available at Laboratory

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

TEST REPORT

REPORT NO: .	Issued to:			
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of
Sample Received on 02.08.2021 Analysis Completed on			03.08.2021	M/a JSW Steel Ltd.
Sample Descr	iption:		Instrument	Respirable Dust
Fugitive Dust !	Monitoring		Used	Sampler
Location/Cod	e : Haul Road	CB Block/FDM-4	Model	Enviro RDS / El 142
Month : July-2021			Serial no	64-K-18
Sample Collected by: B.S. Envi-Tech (P) Ltd.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
L	01/07/2021	516	
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	
6	08/07/2021	562	
9	09/07/2021	593	
10	10/07/2021	584	
11	11/07/2021	463	
12	12/07/2021	711	1
13	13/07/2021	570	1
14	14/07/2021	423	1
15	15/07/2021	549	
16	16/07/2021	595	1200
17	17/07/2021	552	[µg/m³]
18	18/07/2021	460	
19	19/07/2021	463	
20	20/07/2021	581	
21	21/07/2021	613	
22	22/07/2021	G B4	
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	
-	verage	567	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

*Complaints Register is available or Laborator C'BAO

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CIN No. 1 U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	03.08.2021	Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of
Sample Received on	02.08.2021	Analysis Completed on	03.08,2021	M/s JSW Steel Ltd.
Sample Descr	iption:	ME 1 3	Instrument	Respirable Dust
Fugitive Dust 1	Monitoring		Used Model	Sampler Enviro RDS / El 142
Location/Cod	e : Sereen Plau	nt/FDM-5		
Month : July-2021			Serial no	95-G-19
Sample Collec	ted by: B.S. E	Invi-Tech (P) Ltd	Calibration Validity	19/10/2021

S.NO	DATE	SPM [µg/m³]	Standards as per CTO
1	01/07/2021	613	
2	02/07/2021	713	
3	03/07/2021	683	
4	04/07/2021	663	1
5	05/07/2021	550	
G	06/07/2021	579	1
7	07/07/2021	539	1
8	08/07/2021	650	
9	09/07/2021	470	1
10	10/07/2021	590	
11	11/07/2021	582]
12	12/07/2021	574	1
13	13/07/2021	582	1200
14	14/07/2021	613	1
15	15/07/2021	581	[µg/m³]
16	16/07/2021	731]
17	17/07/2021	693	1
18	18/07/2021	631	1
19	19/07/2021	583	1
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	
-	\verage	586	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory *Complaints Register is available at Laborator C'8 AO

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TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/20	021-07	Issued to:		
Sample 02.08.2021 Analysis		Analysis Starting on	02.08.2021	Jajang Iron Ore Mines of		
		021 Analysis Completed on 03.08.2021		M/s JSW Steel Ltd.		
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler		
Location/Cod	e: OB Dump-	4/FDM-6	Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO
T	01/07/2021	449	
2	02/07/2021	513	1
3	03/07/2021	628	1
4	04/07/2021	483	
5	05/07/2021	449	
6	06/07/2021	560	
7	07/07/2021	584	7
В	08/07/2021	493	
9	09/07/2021	678	
10	10/07/2021	593	
11	11/07/2021	480	1
12	12/07/2021	446	1
13	13/07/2021	498	1
]4	14/07/2021	513	1
15	15/07/2021	584	
16	16/07/2021	685	1200
17	17/07/2021	513	[µg/m³)
18	18/07/2021	493	
19	19/07/2021	470	1
20	20/07/2021	520	
21	21/07/2021	460	1
22	22/07/2021	483	7
23	23/07/2021	563	1
24	24/07/2021	472	
25	25/07/2021	633	
26	26/07/2021	513	
27	27/07/2021	493	1
28	28/07/2021	415	
29	29/07/2021	395	1
30	30/07/2021	377	
31	31/07/2021	361	
A	verage	510	1

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

'Complaints Register's available at Laborator C'BAO

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Website : www.bschvitoch.com CIN No. EU74210TG1999P1CU32358

JAJANG IRON ORE MINES

AAQ-7 PARAMETERS

AUGUST - 2021



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

TEST REPORT

Name & Address of the Customer:

M/s JSW Steel Limited

Jajang from Ore Mines.

Sample Description: Ambient Air Quality sample

Qty & Packing

: I filter paper for

Load, Benzo(a) pyrone, Arsenic, Nickel

30ml absorbing solution for Ammonja.

70 ml absorbing solution for Ozone

I No Charcoal tube for Benzene

Test Required: As per given below

Test Report No. : BSET/2021/TR-1612

Issue Date

: 18.08-2021

Your Ref.

: Letter dated 13.08.2021

Date of Receipt : 13.08.2021

13.08 2021

Date of Registration 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

General Environment conditions: Ok

Location of Sampling: Near Mines Office

Page No: 1 of 1

TEST RESULTS

5- No.	Tests Parameter	Test Method	Result	NAAQ Standards for Industrial Residential, Rural and Other areas
ı	Ozone (O ₃), µg/ m ³	19-5182 (Part-IX) 1974 (Reaffirmed 2014)	10.0	180 (1 Hour)
2	Lead (Pb), µg/ m ¹	USEPA 10 - 3 2 - 1999, BY AAS	0.12	I (24 Hours)
3	Astimonia (NII), μg/ m ³	BSET:SOP/AA-06, (Induphenol Blue Method)	11.1	400 (24 Hours)
4	Renzonc, µg/ m³	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	S (Annual)
5	Renzo (a) Pyrene, (BaP) Particulate phase only, ng / an³	IS: 5182 (P-12) :2004 (Reaffirmed 2014)	<1	l (Annual)
ń	Arsenic (As), ng / m ³	USEPA 10 3.2 - 1999, BY AAS - VGA	0.32	6 (Annuel)
7	Nickel (Ni), ng / im ³	USEPA - IO 3.2 - 1999, BY AAS	0.45	20 (Appual)

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

Authoria

Ricomplaints Register is available at Laboratory.



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

TEST REPORT

Name & Address of the Customer :

M/s JSW Steel Limited Jajang Iron Ore Mines

Sample Description: Ambient Air Quality sample

Qty & Packing : I filter paper for

Lead.Benzo(a) pyrene. Arseme, Nickel

30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone

I No Charcoal tube for Benzune

Date of Sampling: 10 08,2021

Test Required : As per given below

General Environment conditions: Ok-

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

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

Location of Sampling: Entry & Exit Gate

Page No: 1 of 1

TEST RESULTS

S. No.	Test Parameter	10.4 mg m . 190 1974		NAAQ Standards for Industrial Residential, Rural and Other areas
1	Ozone (O ₃), μg/ m ³			IRP (I Hour)
2	Load (Pb), pg/ m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.12	1 (24 Hours)
3	Атторія (NH ₁), ду ін ¹	BNFT/SOP/AA-06. (Indephenol Blue Method)	10.9	400 (24 Hours)
4	Barvaene, ug/ m²	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Bonzo (a) Pyrone, (BuP) Particulate phase only, ng / m ³	IS: 5182 (P-12) :2004 (Realfinned 2014)	<1	I (Annual)
á	Arsenic (As), ng / m ³	USEPA - IO - 3.2 - 1999; BY AAS - VGA	0.42	6 (Annual)
7	Nickel (Ni), ng / m²	USEPA TO 3.2 - 1999, BY AAS	0.53	20 ₍ (Annual)

Interpretation of results: Nil Deviation from test method: Nil

Authorized Signatory

"Completets Register is available at Laboratory.

Telangana, India

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Website www.bsenvitech.com

CIN No.: U74210TG1999P C032358



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

TEST REPORT

Name & Address of the Customer ?

M/s JSW Steel Limited.

lajang Iran Ore Mines.

Sample Description: Ambient Air Quality sample

Qty & Packing

Lead, Benzo(a) pyrene, Arseme, Nickell

: 1 filter paper for

30ml absorbing solution for Ammoniu. 10 ml absorbing solution for Ozone

I No Charcoal tube for Benzene

Test Required : As per given below

Test Report No. : BSET/2021/TR-2614

Essue Date

: 18.08.2021

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

Sample condition at receipt

Found ok

Sample tested as received

Sampling Details

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	l'est Method	Kesult	NAAQ Standards for Industrial Residential Rural and Other areas
ı	Ozone (O ₅), ug/ m ³	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	13.1	180 (1 Hour)
2	Lead (Pb), µg/ m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.29	I (24 Hours)
3	Antinoπia (NH ₂), μg/ m ²	RSET/SOP/AA-06, (Indephenol Blue Method) 8.5		400 (24 Hours)
4	Benzene, µg/ m²	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Renzo (a) Pyrene, (BaP) Particulate phase only, ng / m²	1S: 5182 (P-17) ·20f4 (Reaffirmed 2014)	<1	I (Annual)
6	Arsenio (As), ng / m ¹	USEPA 10 - 3.2 - 1999, BY AAS - VGA	0.42	6 (Annual)
7	Nickel (Ni), ng / m ³	USCPA - 10 - 3.2 - 1999, BY AAS	0.35	20 (Annual)

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

Authorized Signatory

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CIN No. #U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer :

M/s JSW Steel Limited

Jajang Iron Ore Mines

Sample Description: Ambient Air Quality sample

Qty & Packing

: I lifter paper for

Load Benzo(a) pysone, 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

Test Report No. : RSET/2021/TR-2615

Issue Date

: 18 0X 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 Found ok

Sample condition at receipt

Sample tested as received

Sampling Details

Date of Sampling: 10.08.2021

General Environment conditions: Ok

Location of Sampling: Workshop Area

Page No: 1 of I

TEST RESULTS

S. Nic	Test Parameter	Test Method	Reşult	NAAQ Standards for Industrial Residential, Rural and Other areas
1	Ozone (Oh), ag/ m1	IS:5182 (Part-IX) 1974 (Reaffirmed 2014)	9.1	180 (1 Hour)
2	Load (Pb), µg/ m ³	USEPA TO = 3.2 - 1999, BY AAS	0.10	l (24 Flaury)
3	Ammonia (NH ₄), µg: m ⁴	n' BSET/SOP/AA-06, (Indopherol Blue Method)		400 (24 Hours)
4	Велгене, дву т	1S 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Benzo (a) Pyrone, (BaP) Paniculate phase only, ng / m²	18: 5182 (P-12) .2004 (Reaffirmed 2014)	<1	l (Anitual)
ŧı.	Arsenic (As), ng / m	USUPA 10 - 3.2 1999, BY AAS VGA	0.47	6 (Amoual)
7	Nickel (Ni), ng / m"	LSEPA - (O 3.2 - 1999) BY AAS	0.32	20 (Annual)

freespretation of results: Nif-Deviation from fast method: Nil

"Complaints Register is available at Laboratory.



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TEST REPORT

Name & Address of the Customer :

M/s JSW Steel Limited

Jajang Iron Ore Mines

: I filter paper for

Sample Description: Ambient Air Quality sample:

Quy & Packing

Load,Bonzo(a) pyrene, Arsenio, Nickell 30ml absorbing solution for Ammonta

10 mil absorbing solution for Ozone 1 No Charcoal tube for Benzene

Test Required : As per given below

Test Report No. : BSET/2021/TR-2616

Issue Date

: 18.08.2021

Your Ref.

: Letter dated 13.08.2021

Date of Receipt : 13 HK 2021

Date of Registration

13.08.2021 13,08,2021 Date of commencement of testing 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

General Environment conditions: Ok-

Location of Sampling: Jajang Village

Page No: 1 of 1

TEST RESULTS

S. No.	Test Parameter	Test Parameter Cent Method		NAAQ Standards for Industrial ,Residential, Rural and Other areas
1	Ozone (O ₁), µg/ m ³	3S.5182 (Part-IX) 1974 (Reaffirmed 2014)	9.0	180 (1 Hoor)
2	Lead (Pb), pg/ m ³	USEPA - IO - 3.2 - 1999, BY AAS	0.12	1 (24 Hours)
3	Antinonia (NH ₁), agr in ¹	BSET/SOP/AA-06, (Indophonol Blue Method)	12.7	400 (24 Hours)
4	Benzene, jag/ m ¹	15: 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 (Real/timed 2014)	<1	f (Anguel)
ń	Arsenic (As), ng / m ³	USEPA TO 3.2 1999. BY AAS VGA	0.40	6 (Annual)
1	Nickel (Ni), ng / m/	USEPA TO 3.2 1999, BY AAS	0.32	20 (Annual)

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

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Website Twww.bsenvitech.com CIN No. 3 U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer:

M/s JSW Steel Limited

Jajang Iron Ore Mines

Sample Description: Ambient Air Quality sample

Qty & Packing

: 1 filter paper for

Lead, Benzu(a) pyrene, Arsenie, Nickel

30ml absorbing solution for Ammonia 10 ml absorbing solution for Ozone

I No Charcoal tube for Benzene

Test Required : As per given below

Test Report No. : BSET/2021/TR-2617

Issue Date

: 18,08,2021

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

Sample condition at receipt

Found ok

Sample tested as received

Sampling Details

Date of Sampling: 10 08:2021 General Environment conditions: Ok Location of Sampling: Jaribahal Village

Page No: 1 of 1

TESURESULUS

S, No.	Test Parameter	Test Method	Result	NAAQ Standards for Industrial Residential, Rural and Uther areas
1	Ozone (Oz), "tg/m/	8S:5182 (Part-IX) 1974 (Reaffirmed 2014)	9.7	180 () Hour)
2	Lead (Pb), ug/ m³	USEPA - JO - 3.2 - 1999, BY AAS	0.13	1 (24 Hours)
3	Ammonia (NH)), pg/m²	8SET/SOP/AA-06, (Indoplered Blue Method)	123	400 (24 Hours)
4	Benzene, µg/ m²	IS: \$182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)
5	Henzo (a) Pyrone, (BaP) Particulate phase only, ng / m ³	15: 5182 (P-12):2004 (Reaffirmed 2014)	< 1	I (Annual)
б	Atsenic (As), ng / m1	USEPA TO 3.2 1999, BY AAS - VGA	0.36	6 (Annual)
7	Nickel (Ni), ng / m²	USEPA - IO - 3.2 - 1999, BY AAS	0.43	20 (Annual)

Interpretation of results: Nif-Dizviation from test method: Nil.

othorized Signatory

"Complete's Register's available at Laboratory.

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Website : www.bsenvitech.com CIN No U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer:

Mix JSW Styol Limited

Jajang Iron Orc Mines

Sample Description: Ambient Air Quality sample

Qty & Packing : I filter paper for

Lead, Benzo(a) pyrene, Arsenie, Nickel

30nd absorbing solution for Ammonia

III ml absorbing solution for Ozone I No Charcoul tube for Benzene

Test Required : As per given below

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

Date of Registration 13.08.2021

Date of commencement of testing 13,08,2021

Unite of completion of testing 17.08.2021 Sample condition at receipt Found ok

Sample tested as received

Sampling Details

Date of Sampling: 10 HS 2021

General Environment conditions: Ok

Location of Sampling: Bandhabeda Village

Page No: 1 of 1

TEST RESULTS

S. No.	Test Parameter	Fest Method	Result	NAAQ Standards for Industrial ,Residential, Roral and Other areas
ı	Ozone (Or), rig/ m ¹	19:5182 (Part-IX) 1974 (Reallithed 2014)	8.6	180 (1 Hour)
2	Lead (Pb), pg/ m ²	USEPA = 10 = 3.2 = 1999, BY AAS	0.29	I (24 Hnurx)
3	Ammenta (NHO, ag/ m²	ma (NHO, ug/m² BSET/SOP/A A-U6. (Indophenol Blue Method)		400 (24 Hours)
4	Bonzene, pg/ m²	IS: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Anoust)
5	Benzo (a) Pyrone, (BaP) Particulate phase only, ng / m*	IS: 5182 (P-12) .2004 (Reaffirmed 2014)	51	1 (Annual)
6	Arsenic (As), ng / m²	USEPA - 10 - 3.2 + 1999, BY AAS - VGA	0.32	6 (Annual)
7	Nickel (Ni), ag - m²	USUPA - 10 - 3.2 - 1999. BY AAS	0.60	20 (Annual)

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

"Complaints Register is available at Laboratory.



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

TEST REPORT

Name & Address of the Customer :

M/s JSW Steel Limited

Jajang Iron Ore Mines

Sample Description: Ambient Air Quality sample

Oty & Packing

: I Offer paper for

Lead,Bertzo(a) pyrene, Arsenie, Niekel-

30ml absorbing solution for Amnionia.

10 ml absorbing solution for Ozone

I No Charcoal time for Benzene

Test Required: As per given below

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

Date of Registration

Date of commencement of testing 13.09 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 General Environment conditions: Ok. Location of Sampling: Kamalpur Village

Page No: 1 of 1

13.08.2021

TEST RESULTS.

5. No.	Test Paraineller	l'est Method	Result	NAAQ Standards for Industrial Residential Rural and Other areas	
ĵ.	Ozone (O ₃), µg/ m²	one (O ₃), μ ₂ g' m ² IS.5182 (Part-IX) 1974 (Real/irmed 2014)	9.8	180 (1 Hour)	
2	Lead (Pa), µg/ m ¹	USUPA TO +3.2 = 1999, BY AAS	0.10	E (24 Hours)	
3	Ammonia (NH ₃), µg-m'	BSET/SOP/AA-06, (Indophenol Blue Method)	13.1	400 (24 Hours)	
4	Веплеме, µд/ m"	1S: 5182 (P-11) :2006 (Reaffirmed 2012)	< 0.1	5 (Annual)	
5	Benzo (a) Pyrone, (BaP) Particulate phase only, ng / m²	15: 5182 (P-12) :2004 (Reaffirmed 2014)	< 1) (Annual)	
٨	Arxenia (As), ng / m ³	USEPA 10 - 3.2 1999, BY AAS - VGA	0.42	6 (Annual)	
7	Nickel (Ni), ng / m²	USEPA 10 3.2 1999, BY AAS	0.35	20 (Annual)	

Interpretation of results. No Deviation from test method: Nil-

*Complaints Registrous available at Laboratory.

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Website : www.bsenvitech.com.

CIN No. : U74210TG1999P1C032358

JAJANG IRON ORE MINES

AAQ REPORT

AUGUST - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/1	ENV/2021/AAQ/	2021-08	Issued to:	
Reporting Date	02.09.2021	09.2021 Analysis Starting on 01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Ambi	ent Air Quality		of	
Location/Cod	e : Mines	Office/AAQCZ-1		M/s JSW Steel Ltd.	
Month	: Augus				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.,		
Instruments :		pirable Dust Sam		est Sampler	
Model		fro RDS / EI 142			
Serial no		58-K-18 & 89-G-19			
Calibration va	Calibration validity 05/10/2021 & 19/10/2021				

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ³]	80 ₂ [ug/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
	01/08/2021	SO	ខេ	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	l6	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	1t.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
(24	Standards hourly andard)	100 (µg/m³	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m ³] [8 hourly]

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

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

50₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

Authorized Signatory

'Complaints Register is available at Laboratory.

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CIN No U74210TG1999PTC032358



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

TEST REPORT

		LEG I IVE	CIVI		
REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:	
Reporting Date	02.09.2021	021 Analysis 01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Ambie	ent Air Quality		of	
Location/Cod	M/s JSW Steel Ltd				
Month					
Sample Collec	eted by: B.S.	Envi-Tech [P] Ltd	.,		
Instruments	ased Res	pirable Dust Sam	pler & Fine di	ist Sampler	
Model		Enviro RDS / El 142 & Enviro El 133			
Serial no	58-	58-K-18 & 89-G-19			
Calibration va	didity 05/	05/10/2021 & 19/10/2021			

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} μg/m ³	\$O ₂ [µg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	15:5182 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	26/08/2021	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 [μ g/m³]	80 [µg/m³]	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

"Complaints Register is available at Leberatory.

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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:	
Reporting Date	02.09.2021	O21 Analysis Starting on O1.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines	
Sample Descr	iption : Ambi	ent Air Quality		of	
Location/Cod	e : Entry	& Exit Gate/AAC	CZ-2	M/s JSW Steel Ltd.	
Month					
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd		1	
Instruments used Respirable Dust Sampler & Fine de			ust Sampler		
Model			RDS / El 142 & Enviro El 133		
Serial no	98-	G 19 & 86-G-19	& 86-G-19		
Calibration ve	Hdity 05/	10/2021 & 19/10	0/2021		

S.NO	DATE Protocol	PM ₁₀ (µg/m ³) IS:5182 Part 23	PM _{2.5} [µg/m ³] IS:5182 Part 24	80 ₂ [ug/m ³] 18:5182 Part 2	NO ₂ [µg/m ³] 18:5182 Part 6	CO [mg/m³] BSET SOP AA-09
2	02/08/2021	57	20	11.t	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	0.76
6	06/08/2021	63	22	11.2	12.7	0.57
7	07/08/2021	58	20	10.6	11.9	0.43
В	08/08/2021	49	17	11.5	12.8	0.74
9	09/08/2021	61	21	11.9	18.3	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	118	13.2	0.68
14	14/08/2021	67	23	10.7	12.1	0.46
15	15/06/2021	57	19	112	12.6	0.66
(24	Standards I hourly andard)	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. 5U74210TG 1899PTC032358



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

REPORT NO: JSW/JIOM/ENV/2021/AAQ/2021-08 Issued to: Analysis Reporting 02.09.2021 01.09.2021Date Starting on Jajang Iron Ore Sample Analysis 02.09.202101.09.2021Mines Received on Completed on ٥f Sample Description: Ambient Air Quality M/s JSW Steel Ltd. Location/Code : Entry & Exit Gate/AAQCZ-2 Month : August-2021 Sample Collected by: B.S. Envi-Tech (Pl Ltd., instruments used Respirable Dust Sampler & Fine dust Sampler Enviro RDS / El 142 & Enviro El 133 Model Serial no 98-G-19 & 86-G-19 Calibration validity 05/10/2021 & 19/10/2021

S.NO	DATE Protocol	PM ₁₀ µg/m ³ IS:5182 Part 23	PM _{2.5} (μg/m ³) IS:5182 Part 24	SO ₂ µg/m ³ IS:5182 Part 2	NO ₂ (µg/m³) IS:5182 Part 6	CO [mg/m³] BSET SOP AA-09
17	17/08/2021	43	14	11	12.4	0.55
18	18/08/2021	49	17	11.4	12.8	0.41
[9]	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)

\$0₂-Sulphur Dioxide NO₂- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

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Websile (www.bschvitech.com)

CIN No. 1:U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	NV/2021/AAQ/	2021-08	Issued to:	
Reporting Date	02.09.2021	2021 Analysis Starting on 01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Ambie	ent Air Quality		of	
Location/Cod	e : Resid	ential Colony/AA	QCZ-4	M/s JSW Steel Ltd.	
Month	: Augus	*			
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	-,		
Instruments t	ised Res	pirable Dust Sam	pler & Fine de	ust Sampler	
Model	Env	Envirotech APM-460BL & Envirotech APM 550			
Serial no	285	2-DTC-15 & 1103	2-DTC-2012		
Calibration ve	didity 19/	10/2021			

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [μg/m ³]	SO ₂ [µg/m ³]	NO ₂ (µg/m³	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 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
R	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
TI.	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	U.6	0.36
15	15/08/2021	47	16	9.8	11.2	0.48
(24	Standards 4 hourly anderd)	100 [µg/m³]	(hR/ur ₃)	80 [µg/m³]	80 [µg/m³]	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

*Complaints Register is available at Laboratory

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CIN No. 1 U74210TG1999PTC032358



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

TEST REPORT

		THE PERSON NAMED IN				
REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:		
Reporting Date	02.09.2021	2021 Analysis 01.09	01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	e : Resid	ential Colony/AA	QCZ-4	M/s JSW Steel Ltd.		
Month	: Augus					
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	'1			
Instruments :	sed Res	pirable Dust Sam	pler & Fine de	ust Sampler		
Model	Env	Envirotech APM-460BL & Envirotech APM 550				
Serial no	285	2852-DTC-15 & 1102-DTC-2012				
Calibration va	didity 19/	10/2021				

S.NO	DATE	PM ₁₀ (μg/m ³)	PM _{2.5} [μg/m³]	SO ₂ [µg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	18:5182 Part 23	19:5182 Part 24	IS:5182 Part 2	18:5182 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	I fi	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	16	95	10.9	0.49
30	30/08/2021	47	16	10.6	12.1	0.54
31	31/08/2021	51	17	10	11.8	0.46
I	verage	45	15	9.4	10.9	0.43
NAAQ (24	Standards 4 hourly andard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/xɔ³]	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

"Complaints Register is evailable at Laboratory.

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Website (www.bsenvitech.com CIN No. : U74210TG1999PTCC32358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:
Reporting Date	02.09.2021	.2021 Analysis 01.09.20:		
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality		of
Location/Cod	e : Work	Shop Area/AAQC	Z-3	M/s JSW Steel Ltd.
Month	: Augus	t 2021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,	
Instruments (nsed Res	pirable Dust Sam	pler & Fine de	ust Sampler
Model	Model Enviro RDS/El 142 & Envirotech A			
Serial no	34-	L-17 & 923-DTH-	2011	
Calibration va	didity 19/	10/2021		

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ²]	NO ₂ [µg/m³]	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	LA	10.7	12	0.64
- 6	06/08/2021	56	20	113	12.6	0.52
7	07/08/2021	49	17	10.5	t 1.8	0.69
8	08/08/2021	43	15	11.8	13.1	0.56
9	09/08/2021	53	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	L7	9.9	11.4	0.45
13	13/08/2021	51	L8 _	10.1	11.7	0.63
14	14/08/2021	rice	21	114	12.9	0.55
15	15/08/2021	53	18	12.2	13.6	0.69
(24	Standards 4 hourly andard)	100 [µg/m³]	60 [µg/m³]	60 [µg/m³]	80 [µg/m³]	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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"Complaints Register is available at Lahoratory."

Website : www.hsenvitech.com CIN No.: U74210TG 1999PTC032358



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

TEST REPORT

	and the same of th			
REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines
Sample Descr	iption : Ambi	ent Air Quality		of
Location/Cod	e : Work	Shop Area/AAQC	Z-3	M/s JSW Steel Ltd
Month	: Augus	st-2021		
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,	
Instruments :	used Rcs	pirable Dust Sam	pler & Fine di	ıst Sampler
Model Enviro RDS/EI 142			& Envirotech A	PM 550
Serial no	34-	L 17 & 923-DTH-	2011	
Calibration va	lidity 19/	10/2021		

s.no	DATE	PM ₁₀ (µg/m³)	PM _{2.6} [µg/m ³]	\$O ₂ [µg/m ³]	NO₂ µg/m³	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	1S:5182 Part 2	IS:5162 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	E1	0.54
21	21/08/2021	41	14	9.9	11.4	0.65
22	22/08/2021	52	16	11. l	12.5	0.57
23	23/08/2021	59	20	10.4	11.7	0.53
24	24/08/2021	62	22	II	12.7	0.68
25	25/08/2021	45	16	10.7	12.2	0.54
26	26/08/2021	46	17	11.9	13.1	0.65
27	27/08/2021	53	19	10,1	11,6	0.59
26	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
	verage	49	17	10.6	12.2	0.58
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	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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TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:		
Reporting Date	02.09.2021	2021 Analysis Starting on	01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	e : Jajan	g Village/AAQBZ	·1	M/s JSW Steel Ltd.		
Month	: Augus	<u> </u>				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,			
Instruments :	sed Res	pirable Dust Sam	pler & Fine do	ust Sampler		
Model		Enviro RDS/El 142 & Envirotech APM 550				
Serial no	30-	30-L-17 & 1084-DTB-2012				
Calibration va	didity 19/	10/2021				

S.NO	DATE	PM ₁₀ (μg/m³)	PM _{2.5} (µg/m³]	SO ₂ ug/m ³	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP AA-09
	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
- /	Lverage	51	17	10.9	12.2	0.58
NAAG 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. #U74210TG1999PTC032358



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TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-08	Issued to:		
Reporting Date	02.09.2021	9.2021 Analysis 01.09.2021				
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines		
Location/Cod Month	le : Jariba : Augus			of M/s JSW Steel Ltd.		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,			
Instruments :	used Rcs	pirable Dust Sam	pler & Fine di	ist Sampler		
Model	Env	Enviro RDS/EI 142 & Enviro EI 133				
Serial no	33-	L-17 & 40-L 17				
Calibration va	didity 19/	10/2021				

S.NO	DATE	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} (μg/m³)	90 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	
1 3	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	III.	12.4	0.49	
7	26/08/2021	43	14	10.7	12. l	0.57	
8	27/08/2021	49	17	11.2	12.6	0.63	
- /	tverage	53	18	11.1	12.4	0.58	
NAAG Standards (24 hourly standard)		100 [µg/m3]	60 [µg/m3]	80 [ug/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/I	ENV/2021/AAQ/	2021-08	Issued to:		
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021			
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	e : Badhi	uabeda Village/A	AQBZ-3	M/s JSW Steel Ltd.		
Month	: Augus	t-2021				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.,			
Instruments :	ised Res	pirable Dust Sam	pler & Fine de	ist Sampler		
Model		Enviro RDS/El 142 & Envirotech APM 550				
Serial no	30-	30-L-17 & 1084-DTB-2012				
Calibration ve	lidity 19/	10/2021				

9.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} (µg/m³)	\$O₂ (μg/m³	NO ₂ (μg/m³]	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
l	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
6	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)

80₂-Sulphur Dioxide

NO₂- Nitrogen Dioxide

CO-Carbon Monoxide

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TEST REPORT

REPORT NO: J	JSW/JIOM/E	ENV/2021/AAQ/	2021-08	Issued to:		
Reporting Date	02.09.2021					
Sample Received on	01.09.2021	Starting on O1.03 Analysis O2.05 Completed on		Jajang Iron Ore Mines		
Sample Descri	ption: Ambie	ent Air Quality		of		
Location/Code	: Kama	lpur Village/AAQ	B Z -4	M/s JSW Steel Ltd		
Month	: Augus					
Sample Collect	ted by: B.S.	Envi-Tech (P) Ltd	.1			
Instruments u	sed Res	ptrable Dust Sam	pler & Fine du	ist Sampler		
Model		dro RDS/El 142 8				
Serial no	33-1	33-L-17 & 40-L-17				
Calibration val	lidity 19/	10/2021				

S.NO DATE		PM ₁₀ (μg/m²)	PM _{2.5} (µg/m³)	SO ₂ [ug/m ³]	NO ₂ [µg/m³)	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
	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 [ug/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 1999PTC032358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

AUGUST - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/2	021-08	Issued to:
Reporting 02.09.2021 Analysis Starting on			01.09.2021	Jajang Iron Ore Mines
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	M/s JSW Steel Ltd.
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Cod	e : Crusher Pl	ant/FDM-1	Model	Enviro RDS / El 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 (µg/m³)	Standards as per CTO
1	01/08/2021	695	
2	02/08/2021	625	1
3	03/08/2021	795	1
4	04/08/2021	744	1
5	05/08/2021	713	1
6	06/08/2021	529	1
7	07/08/2021	626	1
B	08/08/2021	854	
ij	09/08/2021	769	1
10	10/08/2021	751	
11	11/08/2021	642	1
12	12/08/2021	582	1
13	13/08/2021	595	1
14	14/08/2021	769	1
15	15/08/2021	592	1
16	16/08/2021	558	1200
17	17/08/2021	643	[µg/m³]
18	18/08/2021	682	1
19	19/08/2021	652]
20	20/08/2021	842	1
21	21/08/2021	754	
22	22/08/2021	732	
23	23/08/2021	659]
24	24/08/2021	583	1
25	25/08/2021	594	1
26	26/08/2021	699	
27	27/08/2021	823	1
28	28/08/2021	582	1
29	29/08/2021	576	1
3D	30/08/2021	764	
31	31/08/2021	695	
	Average	694	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

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CIN No 074210TG1999PTG032358



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TEST DEBORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/20	021-08	Issued to:
Reporting 02.09.2021 Analysis Starting on		01.09.2021	Jajang Iron Ore Mines of	
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	M/s JSW Steel Ltd.
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Cod	e : Working Pi	t 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 [µg/m²]	Standards as per CTO
1	01/08/2021	695	
2	02/08/2021	582	1
3	03/08/2021	795	1
4	04/08/2021	715	1
5	05/08/2021	743	1
6	06/08/2021	625	1
7	07/08/2021	813	1
8	08/08/2021	829	1
9	09/08/2021	594	
10	10/08/2021	573	1
LJ	11/08/2021	566	
12	12/08/2021	520	
13	13/08/2021	649	
14	14/08/2021	683	
15	15/08/2021	6 7 3	
16	16/08/2021	514	1200
17	17/08/2021	548	[µg/m³]
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]
1	Average	673	

Legend:SPM-Suspended Particulate Matter

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TEST REPORT REPORT NO: JSW/JIOM/ENV/2021/FDM/2021-0 Issued to: Jajang Iron Ore Mines Reporting Analysis 02.09.2021 01.09.2021οľ Date Starting on M/s JSW Steel Ltd. Sample Analysia 01.09.202102.09.2021 Received on Completed on Sample Description: Instrument Respirable Dust **Fugitive Dust Monitoring** Used Sampler Model Enviro RDS / El 142 Location/Code:Loading Area Block B/FDM-3 Month 61-K-18 : August-2021 Serial no Calibration 19/10/2021 Sample Collected by: B.S. Envi-Tech [P] Ltd., Validity

S.NO	DATE	SPM [µg/m²]	Standards as per CTO
	01/08/2021	745	
2	02/08/2021	829	
3	03/08/2021	535	1
4	04/06/2021	548	
5	05/08/2021	516	
ß	06/08/2021	764	1
7	07/08/2021	695	
В	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	1
14	14/08/2021	820	
15	15/08/2021	546	
16	16/08/2021	573	1200
17	17/08/2021	591	µg/m³
18	18/08/2021	698	
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	659	
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

Authorized Signatory

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

TEST REPORT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/20	021-08	Issued to:		
Reporting Date	02.09.2021	Amalouse		7 1 PH 3 1 1 1 1 1 1 1 1 1	01.09.2021	Jajang Iron Ore Mines of
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	M/s JSW Steel Ltd.		
Sample Descr	iption:	-	Instrument	Respirable Dust		
Fugitive Dust I	Monitoring		Used	Sampler		
Location/Cod	e: Haul Road	CB Block/FDM-4	Model	Enviro RDS / El 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 [µg/m²]	Standards as per CTO
1	01/08/2021	684	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	02/08/2021	759	1
3	03/08/2021	825	1
1	04/08/2021	943	1
5	05/08/2021	516	1
6	06/08/2021	547	1
7	07/08/2021	582	1
ß	08/08/2021	683	
9	09/08/2021	792	
III	10/08/2021	583	
11	11/08/2021	824	1
12	12/08/2021	736	1
13	13/08/2021	648	1
11	14/08/2021	738	1
15	15/08/2021	801	1
16	16/08/2021	570	1200
17	17/08/2021	690	μg/m ³
18	18/08/2021	764	
19	19/08/2021	738	1
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	
26	28/08/2021	781	
29	29/08/2021	659	
30	30/08/2021	831	
31	31/08/2021	720	
1	Average	688	

Legend: SPM-Suspended Particulate Matter

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TEST DEDORT

REPORT NO:	J8W/JIOM/E	NV/2021/FDM/2	021-08	Issued to:
Reporting Date	02.09.2021	Analysis Starting on	01.09.2021	Jajang Iron Ore Mines of
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	M/s JSW Steel Ltd.
Sample Descr	iption:	N 3	Instrument	Respirable Dust
Fugitive Dust !	Monitoring		Used	Sampler
Location/Cod	e : Screen Plan	nt/FDM-5	Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO
1	01/08/2021	695	
2	02/08/2021	847	1
3	03/08/2021	826]
4	04/08/2021	592	1
5	05/08/2021	749	1
6	06/08/2021	590	1
7	07/08/2021	681	1
В	08/08/2021	628	1
9	09/08/2021	738	1
10	10/08/2021	803	1
11	11/08/2021	669	1
12	12/08/2021	674	1
13	13/08/2021	816	1200
14	14/08/2021	739	
15	15/08/2021	563	[µg/m³]
16	16/08/2021	669	1
17	17/08/2021	720	
18	16/08/2021	794	
19	19/08/2021	615	
20	20/08/2021	587	
21	21/08/2021	559	
22	22/08/2021	538	1
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	
26	28/08/2021	584	
29	29/08/2021	573	
30	30/08/2021	759	
31	31/08/2021	722	
	Average	697	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

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CIN No. 1 U74210TG1999PTC032358



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

TEST DEDODT

REPORT NO:	JSW/JIOM/E	NV/2021/FDM/2	021-08	Issued to:
Reporting Date 02.09.2021 Analysis Starting on		01.09,2021	01	
Sample Received on	01.09.2021	Analysis Completed on	02.09.2021	M/s JSW Steel Ltd.
Sample Descr Fugitive Dust 1			Instrument Used	Respirable Dust Sampler
Location/Cod	e: OB Dump-	4/FDM-6	Model	Enviro RDS / El 142
Month : August-2021			Serial no	60-K-18
Sample Collected by: B.S. Envi-Tech (P) 1.(d.,			Calibration Validity	19/10/2021

S.NO	DATE	SPM (µg/m ³)	Standards as per CTO
1	01/08/2021	659	
2	02/08/2021	582	1
3	03/08/2021	726	1
1	04/08/2021	598	7
5	05/08/2021	54 I	1
6	06/08/2021	683	1
7	07/08/2021	669	1
B	08/08/2021	726	1
9	09/08/2021	562	1
10	10/08/2021	813	1
11	11/08/2021	843	1
12	12/08/2021	573	1
13	13/08/2021	694	1
14	14/08/2021	557	1
15	15/08/2021	538	1
16	16/08/2021	683	1200
17	17/06/2021	552	[hg/m ³]
LB BJ	18/08/2021	674	· -
19	19/08/2021	805	
20	20/08/2021	582	1
2)	21/08/2021	694	
22	22/06/2021	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	
A	verage	644	

Legend: SPM-Suspended Particulate Matter

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Telangana, India

JAJANG IRON ORE MINES

AAQ REPORT

SEPTEMBER - 2021



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	2021 Analysis Starting on 01.1				
Sample Received on	01.10.2021	Analysis Completed on	02.10 2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod Month	M/s JSW Steel Ltd					
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	·1			
Instruments :	ısed Res	pirable Dust Sam	e Dust Sampler & Fine dust Sampler			
Model	Env	Enviro RDS / El 142 & Enviro El 133				
Serial no	58-	58-K-18 & 89-G-19				
Calibration va	didity 05/	05/10/2021 & 19/10/2021				

	DATE	PM ₁₀ (μg/m ³)	PM _{2.5} {μg/m³]	SO ₂ [μg/m ³]	NO ₂ [µg/m³]	CO (mg/m³)
	Protocol	IS:5182 Part 23	IS:5182 Part 24	18:5182 Part 2	IS:5182 Part 6	BSET SOP
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
1.3	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
(24	Standards 4 hourly andard)	100 [µg/m³]	60 [μg/m³]	80 [µg/m³]	80 [µg/m³]	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- NitrogenDloxide

CO-Carbon Monoxide

Authorized Signatory

*Complaints Register is available at Laboratory.

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CIN No. #U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021			
Sample Received on	01,10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	le : Near	Mines Office/AAQ	CZ-1	M/s JSW Steel Ltd		
Month		nber-2021				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,			
Instruments :	used Res	Respirable Dust Sampler & Fine dust Sampler				
Model	Env	Enviro RDS / El 142 & Enviro El 133				
Serial no 58-K-18 & 89-G-19						
Calibration ve	didity 05/	05/10/2021 & 19/10/2021				

	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} (μg/m ³)	8O ₂ [µg/m³]	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
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 !	11.3	0.47
20	20/09/2021	45	15	9.7	Li	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]4	8.5	9.8	0.53
24	24/09/2021	47	16	9.6	11.1	0.58
25	25/09/2021	51	3.7	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
A	verage	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/m ³] (8 hourly)

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

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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	021 Analysis Starting on 01.10.2				
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	le : Entry	8 Exit Gate/AAQ	CZ-2	M/s JSW Steel Ltd		
Month	: Septer	nber-2021				
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	4			
Instruments	used Res	pirable Dust Sam	rable Dust Sampler & Fine dust Sampler			
Model	Env	Enviro RDS / El 142 & Enviro El 133				
Serial no	98-	98-G-19 & 86-G-19				
Calibration va	alidity 05/	05/10/2021 & 19/10/2021				

B.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ²]	SO ₂ [μg/m ³]	NO ₂ (μg/m³)	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
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	-13	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.B	12.3	0.46
14	14/09/2021	40	16	11.5	12.9	0.57
15	:5/09/2021	53	18	11	12.3	0.41
(24	Standards 4 hourly anderd)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	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

"Complaints Register is evallable at Laboratory.

Telangana, India

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CIN No. #U742101G1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:	
Reporting Date	02.10.2021	021 Analysis 01.10.2021			
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines	
Sample Descr	i ption : Ambi	ent Air Quality		of	
Location/Code : Entry & Exit Gate/AAQCZ-2				M/s JSW Steel Ltd	
Month	: Septer	mber-2021			
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	-,		
Instruments	u sed Res	pirable Dust Sam	pler & Fine de	ist Sampler	
Model Enviro RDS / El 142 & Enviro El 1			33		
Serial no 98-G-19 & 86-G-19					
Calibration validity 05/10/2021 & 19/10/2021					

S.NO	DATE	PM ₁₀ [µg/m³]	PM _{2.5} [µg/m ³]	SO₂ [μg/m ³]	NO ₂ [μg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	18:5182 Part 24	IS:5182 Part 2	18:5182 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	11	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)9	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
	verage	45	16	10.6	12.0	0.53
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	ΒΟ [μg/m³]	80 [µg/m³]	02 [mg/m ²] (8 hourly)

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

PM2.5-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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Recognized by MoEF & CC, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	Starting on				
Sample Received on	01.10.2021			Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod	e : Guesi	House Area/AAC	QCZ-4	M/s JSW Steel Ltd		
Month	: Septer	nber-2021				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	.,			
Instruments (sed Res	Respirable Dust Sampler & Fine dust Sampler				
Model		Envirotech APM-460BL & Envirotech APM 550				
Serial no	285	2852-DTC-15 & 1102-DTC-2012				
Calibration ve	Hdity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [μg/m³]	5O ₂ [μg/m ³]	NO ₂ [μg/tn ³]	CO [mg/m³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	IS:5182 Part 6	BSET SOP
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	4]	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	H	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
(24	Standards 4 hourly andard)	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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Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	2021 Analysis 01.10.2021 Starting on				
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambi	ent Air Quality		of		
Location/Cod		House Area/AAC	QCZ-4	M/s JSW Steel Ltd.		
Month		mber-2021				
Sample Collec	cted by: B.S.	Envi Tech (P) Ltd				
Instruments	used Res	pirable Dust San	ost Sampler			
Model Envirotech APM-460BL & Enviro			BL & Envirote	ch APM 550		
Serial no	285	2852-DTC-15 & 1102-DTC-2012				
Calibration ve	alidity 19/	19/10/2021				

s.no	DATE	PM ₁₀ [μg/m ³]	PM _{2.5} [μg/m ²]	80 ₂ [µg/m³]	NO ₂ [μg/m³]	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	q	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	[9]	8.8	10.4	0.5
2.7	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		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/m²]	80 (μg/m³)	80 [µg/m³]	02 [mg/m ³] (8 hourly)

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

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. 1 U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021			
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines		
Sample Descr	iption: Ambie	ent Air Quality		of		
Location/Cod	e : Near '	Workshop/AAQC	Z-3	M/s JSW Steel Ltd.		
Month		nber-2021				
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd				
Instruments t	ised Res	pirable Dust Sam	pler & Fine di	ust Sampler		
Model Enviro RDS/El 142 & Envirotech A						
Serial no	34-1					
Calibration va	lidity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [µg/m ³]	8O₂ [µg/m³]	NO ₂ [μg/m ³]	CO [mg/m ³]
	Protocol	I8:5182 Part 23	IS:5182 Part 24	I8:5182 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	-18	16	10.7	12.2	0.49
В	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]4	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
(22	Standards hourly andard)	100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	[hg\m ₃]	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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Recognized by MoEF & CC, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:			
Reporting Date	02.10.2021	Analysia Starting on	01.10.2021				
Sample Received on	01.10.2021	Jajang Iron Ore Mines					
_	le : Near	ont Air Quality Workshop/AAQC: mber-2021	Z-3	of M/s JSW Steel Ltd.			
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd	.,				
Instruments (used Res	pirable Dust Sam	pler & Fine di	ust Sampler			
Model	Env	Enviro RDS/EI 142 & Envirotech APM 550					
Serial no	34-	34-L-17 & 923-DTH-2011					
Calibration va							

S.NO	DATE	PM ₁₀ (μg/m ³)	PM _{2.5} [μg/m ²]	SO ₂ [μg/m ³]	NO ₂ [µg/m³]	CO [mg/m ³]
	Protocol	IS:5182 Part 23	IS:5182 Part 24	4 Part 2 Part 6	BSET SOP AA-09	
16	16/09/2021	55	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	l l	0.62
19	19/09/2021	47	17	8,01	12.2	0.55
20	20/09/2021	4()	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	[]	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/m²)	60 [μg/ m ³]	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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Website www.bsenvilech.com GIN No : U74210TG1999PTG032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	
Sample Received on	01.10.2021	Analysia		Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality	11	of
Location/Cod	e : Jajan	g Village/AAQBZ	1	M/s JSW Steel Ltd.
Month		mber-2021		
Sample Collec	ted by: B.S.	Envi-Tech (P) Ltd	1)	
Instruments :	ined Res	pirable Dust Sam	pler & Fine di	ast Sampler
Model Enviro RDS/Et 142 & 1			Envirotech A	APM 550
Serial no	30-			
Calibration validity 19/10/2021				

8.NO	DATE	PM ₁₀ (μg/m³]	PM _{2.5} [μg/m ³]	SO ₂ [µg/m³]	NO ₂ [µg/m ³]	CO [mg/m ³]
	Protocol	19:5182 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	LB	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
A	verage	47	17	10.6	12.0	0.50
NAAQ Standarde (24 hourly standard)		100 [µg/m³]	60 [µg/m³]	80 [µg/m³]	80 [µg/m³]	02 [mg/m ²] (8 hourly)

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

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

802-Sulphur Dioxide NO2- Nitrogen Dioxide CO-Carbon Monoxide

Authorized Signatory

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CIN No. # U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/I	NV/2021/AAQ/	2021-09	Issued to:
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines
Sample Descr	iption: Ambi	ent Air Quality		of
Location/Cod	le : Jariba	hal Village/AAQI	32-2	M/e JSW Steel Ltd.
Month		nber-2021		
Sample Collec	cted by: B.S.	Envi-Tech (P) Ltd	.,	
Instruments :	used Res	pirable Dust Sam	pler & Fine di	ust Sampler
Model	Env	13		
Serial no	33-			
Calibration validity 19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m ³]	РМ 2.8 [µg/m³]	SO ₂ [μg/m ³]	NO ₂ [µg/m³]	CO [mg/m³]
	Protocol	18:5182 Part 23	IS:5182 Part 24	IS:5182 Part 2	18:5182 Part 6	BSET SOP AA-09
L	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]4	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
- 1	Lverage	53	19	10.6	12.0	0.55
NAAQ Standards (24 hourly standard)		100 [µg/m³]	60 [µg/ m ³]	80 [µg/m³]	80 [µg/m³]	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, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	JSW/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:		
Reporting Date	02.10.2021	2021 Analysis 01.10.202				
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines		
Sample Descr Location/Cod	-	ent Air Quality uabeda Village/A	AQBZ-3	of M/a JSW Steel Ltd.		
Month Sample Collec		nber-2021 Envi Tech (P) Ltd	· F			
Instruments (ised Res	pirable Dust Sam	pler & Fine di	ust Sampler		
Model	Env	aro RDS/EI 142 8	NPM 550			
Serial no	30-	30-L-17 & 1084-DTB-2012				
Calibration va	lidity 19/	19/10/2021				

S.NO	DATE	PM ₁₀ [μg/m³]	PM _{2.5} [μg/m ³]	SO ₂ [μg/m ³]	NO ₂ [μg/zn³]	CO [mg/m ³]
	Protocol	18:5182 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	l B	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
- 1	lverage	48	17	10.1	11.6	0.50
NAAQ (2)	Standards 4 bourly andard)	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. 1 U74210TG1999PTCII32358



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

TEST REPORT

REPORT NO:	J8W/JIOM/I	ENV/2021/AAQ/	2021-09	Issued to:	
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021		
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	Jajang Iron Ore Mines	
Sample Descr	iption: Ambi	ent Air Quality		of	
Location/Cod	e : Kama	lpur Village/AAQ	BZ 4	M/s JSW Steel Ltd	
Month ; September-2021					
Sample Collec	eted by: B.S.	Envi-Tech (P) Ltd			
Instruments	ised Ros	pirable Dust Sam	pler & Fine di	ast Sampler	
Model	Env	iro RDS/EI 142 8	33		
Serial no	33-	33-L-17 & 40-L-17			
Calibration va	lidity 19/	10/2021			

S.NO	DATE	PM ₁₀ [µg/m³]		NO ₂ [μg/m³]	CO [mg/m ³]	
	Protocol	IS:5182 Part 23	IS:5182 Part 24	18:5182 Part 2	18:5182 Part 6	BSET SOP AA-09
]	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	В	9.5	0.39
7	23/09/2021	33	11	7.9	9.3	0.33
8	24/09/2021	39	13	7.4	8.5	0.26
-	Average	35	12	7.4	8.8	0.30
NAAQ (24	Standards 4 hourly andard)	100 [µg/m³]	60 [μg/m³]	80 [μg/m³]	80 [µg/m³]	02 [mg/m ³] (8 hourly)

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

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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G/N No. € U74210TG1999PTCQ32358

JAJANG IRON ORE MINES

FUGITIVE DUST MONITORING REPORT

SEPTEMBER - 2021



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

TEST REPORT

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

S.NO	DATE	SPM (µg/m³)	Standards as per CTO
	01/09/2021	580	
2	02/09/2021	595	
3	03/09/2021	649	
4	04/09/2021	606	
5	05/09/2021	547	
ń	06/09/2021	683	
7	07/09/2021	652	
8	08/09/2021	626	
9	09/09/2021	527	
LC.	10/09/2021	490	1
L1	11/09/2021	521]
12	12/09/2021	574	
13	13/09/2021	566].
14	14/09/2021	608]
15	15/09/2021	567	
L6	16/09/2021	628	1200
17	17/09/2021	657	[μg/m³]
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	624	
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

Authorized Signatory

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

TEST REPORT

REPORT NO:	JSW/JIOM/E	Issued to:			
Reporting 02.10.2021 Analysis Starting on		01.10.2021	Jajang Iron Ore Mines of		
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	M/s JSW Steel Ltd.	
Sample Descr	iption:	11/1/	Instrument	Respirable Dust	
Fugitive Dust I	Monitoring		Uacd	Sampler	
Location/Cod	e : Working Pi	t Block-B/FDM-2	Model	Enviro RDS / El 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 [µg/m³)	Standards as per CTO
L	01/09/2021	515	
2	02/09/2021	560	1
3	03/09/2021	612	1.
1	04/09/2021	577	1
5	05/09/2021	495	1
6	06/09/2021	627	1
7	07/09/2021	606	1
8	08/09/2021	551	1
9	09/09/2021	444	1
10	10/09/2021	104	
ΕŢ	11/09/2021	426	1
12	12/09/2021	498	1
13	13/09/2021	523	1
[4	14/09/2021	55 6	
15	15/09/2021	508	1
16	16/09/2021	599	1200
17	17/09/2021	613	[µg/m³]
[8	18/09/2021	644	
[4	19/09/2021	523	
20	20/09/2021	551	1
21	21/09/2021	441	
22	22/09/2021	478	1
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	S60	
	Average	528	

Legend:SPM-Suspended Particulate Matter

Authorized Signatory

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CIN No. 1074210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	Issued to:		
Reporting 02.10.2021 Analysis Starting on			01.10.2021	Jajang Iron Ore Mines
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	M/s JSW Steel Ltd.
Sample Description: Fugitive Dust Manitoring			Instrument Used	Respirable Dust Sampler
Location/Cod	e:Loading Arc	a Block B/FDM-3	Model	Enviro RDS / El 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 (µg/m²)	Standards as per CTO
i	01/09/2021	599	
2	02/09/2021	626	1
3	03/09/2021	651	
4	04/09/2021	678	
5	05/09/2021	619	1
6	06/09/2021	677	Į.
7	07/09/2021	696	16
К	08/09/2021	605	
9	09/09/2021	593]
10	10/09/2021	540	
1)	11/09/2021	577	
12	12/09/2021	586	
13	13/09/2021	549	1
14	14/09/2021	631	1
15	15/09/2021	610	
16	16/09/2021	642	1200
17	17/09/2021	688	[µg/m³]
18	18/09/2021	757	
19	19/09/2021	636	
20	20/09/2021	649	
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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Recognized by MoEF & CC, Gol: Valid upto August, 2022

TEST REPORT

REPORT NO:	lasued to:			
Reporting 02.10.2021 Analysis Starting on			01.10.2021	Jajang Iron Ore Mines of
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	M/s JSW Steel Ltd.
Şample Descr	iption:		Instrument	Respirable Dust
Fugitive Dust I	Monitoring		Used	Sampler
Location/Cod	e : Haul Road	CB Block/FDM-4	Model	Enviro RDS / El 142
Month : September-2021			Serial no	64-K-18
Sample Collec	•	Envi-Tech (P) Ltd.,	Calibration Validity	19/10/2021

S.NO	DATE	SPM (µg/m³)	Standards as per CTO
	01/09/2021	556	
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	1
7	07/09/2021	629	1
8	08/09/2021	604	1
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	1200
17	17/09/2021	639	[µg/m³]
18	18/09/2021	705	
10	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	
25	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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ÇIN No. # U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	JSW/JIOM/E	Issued to:		
Reporting 02.10.2021 Analysis Starting on			01.10.2023	Jajang Iron Ore Mines of
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	M/s JSW Steel Ltd.
Sample Description: Fugrive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Cod		nt/PDM-5	Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO
1	01/09/2021	527	
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	
y	09/09/2021	485	
10	10/09/2021	511	
11	11/09/2021	545	
12	12/09/2021	561	
13	13/09/2021	526	1200
14	14/09/2021	580	[µg/m³]
15	15/09/2021	503	[hg/m]
16	16/09/2021	601	
17	17/09/2021	624	
18	18/09/2021	711	
16	19/09/2021	543	
20	20/09/2021	617	2
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

"Complaints Register's available at Laboratory.

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Email

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Websile : www.bsenvitech.com C.N No. : U74210TG1999PTC032358



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

TEST REPORT

REPORT NO:	Issued to:			
Reporting Date	02.10.2021	Analysis Starting on	01.10.2021	Jajang Iron Ore Mines of
Sample Received on	01.10.2021	Analysis Completed on	02.10.2021	M/a JSW Steel Ltd.
Sample Description: Fugitive Dust Monitoring			Instrument Used	Respirable Dust Sampler
Location/Code: OB Dump-4/FDM-6			Model	Enviro RDS / El 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 [µg/m³]	Standards as per CTO		
L	01/09/2021	491			
2	02/09/2021	446			
3	03/09/2021	414			
4	04/09/2021	S08			
5	05/09/2021	177			
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			
[4	14/09/2021	468			
15	15/09/2021	517	1200 [µg/m³]		
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

"Complaints Register is available at Laboratory

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Website www.bsenvitech.com CIN No. #U74210TG1999PTC032358

JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

APRIL - 2021



Recognized by McEF & CC, Gol: 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's available at Laboratory.

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

SURFACE WATER QUALITY REPORT

APRIL - 2021



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

TEST REPORT

Name & Address of the Customer: Mo. JSW Steel Limited

Tell Report No. : BSFT/0021/WS-00026

Lab Code No 210977404 lanue Durce : [7.04,292]:

Your Ref.

: Letter Dated 05 B4 2901

Date of Receipt 1: 15,04,5 (2)

05.04.2021 Date of Repotration

Date of communications of testing Unic of completion of testing

06/04/2021 16 (4 202)

Sample condition at receipt Sample tested as revelved

Found ok

Pecking Lest Required

Queelly.

I No. x 250 to Sample Pro Sten, ped Books For Micro : Plestic Bull by : As given below

: 1 Nic x5.9 Lins Sample I No. a 500 m. Sample (Metals).

500 ml Wide mouth filess book (in Odd),

Sampling Details

Sampling Wested/Procedure: IS 3025 Par. I General Knylronment conditions: ok. .

Page No. 1 of 1

Date of Sampling, UZ.04.2921 Location of Sampling: Ballarent River Hostreum

Project Name: Japang Iron ore Mases

Sample Description: Surface Water Sample

TEST RESULTS

S. No.	Test Parameter	t sets	Lest Method	Reell	Limits for Screens Water Steedards
IĮ:	Conu-	Hazen Units, Max.	IS 3025 (Part-4)	5	300
ž.	rHI .	948	15 1025 (Pyr)-[1])	6.82	h Sto 8.5
1	Total Dissilved solids	mg/l, Max	IS 3025 (Part-16)	125	180
4	Chloride (as O1)	mg4, Max	(S. 4025 (Part-32)	т	MA:
5	Iran Coy Fel	mg/l, Max.	\$111 Bleri APHA 21 ¹² BJ (em 2.017	D.34	50
ů.	Sulphotes (as SO _c)	mg/l, Max	IS 3025 (Part-24)	24	400
7	Hounde (es I')	mg/l, Max.	45004 B; APHA 23 ¹² Edition 2017	0.10	1.5
a_	Niuraies (as NID.)	mgt, Max	4300-NOr-B CV Specinghologistic Subscring, Method	я	50
4	Copper pic Eq.	rrg/ Max	1111 3 of AFSIA 23 ^{et} Edition 2017	<0.02	1.5
Ю	Schmium (us Set	mg/l, Max.	J114 3- of API (4.2)** 1 dutor 2017	-20.0H	0.05
ш	Zinc (as Zn)	mg/. Max.	JTT: Bint APITA 21 th Edigina 2012	(kildi	15
12,	Cadmiuni (as Cd)	mg/ . Mea.	3111 B or APHA 23 ^{to} Edition 2017	-acuona-	<ii i<="" td=""></ii>
13,	Jord (as Pb)	mgd, Max	3101 H of APHA 23" Edition 2017	<0.01	93
Н.	Arsenic (os Av)	ngā, Max.	3D4 C of APIIA 23 ⁴ Edition 2017	<0.01	0,2
15,0	Gyanida (es CN)	mg/l, Max.	4900 CN B. Culmimotric Method, APHA 23 th Foot on 2017	<0.02	Cins
.6	Chiomom (as C+")	mg'l, Max.	3111 B of APIIA 23 ^{of} Equipp 2017	4BAD2	0,05
7	Annua Dosaggats (as MBAS)	mg/l, Max	Adues, K of IS 13348	×0.1	ı
1	Phonolic Compounds (46 CA1(4011)	mg/l, Mac	IS 3025 (Part-17)	<0.001	11,005
19,	BSBD (25 D ₂)	2/6	IS J025 [Pan-44]	1	3
20	Disautood Oxigen (as O ₂)	76/ 34m	(8.3025 (Part-3F)	5.2	-1
21.	Oil & Giese	mg/l. Max	18 3025 (Part 19)	< 1	C.1
22	Total Coliforn	(mpre to 0mb), Max.	IS:1622	285	54.0

Interpretation of results. Nil, Deviation from lest method: Nil.

Led of the Report

"Complaints Register is evaluable at Laboratory.

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handra Mouli k nmental Scientist

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Websile If www.bsenvitech.com

CIN No. 4 U74210TG1999PTC032358



Quantity

Packing.

Ten Required

Date of Sampling - 02,04,201)

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Changmer : MA, JSW Steel Limited

: 1 No. a5,0 Lirs Sample

: Plasco Bostes

: As given Jehnw

Location of Sampling: Builderani Blvcc Downstram

1 No. x 500 mt Sample (Meia s)

90 ml Wide miner Glass beefe für O&G

1 No. x 250 ml Sample Pre-Ster Great Bethle For Migra-

Project Name: Jajung Iron ore Mines

Sample Description; Surface Water Sample

Test Report No. : BSPT/202 7WS-00227

210977304 Lab Code No Issue Date : 13.04 2021

: Letter Dated 06 94 2021 Your Ref.

Bate of Receipt 1:305,04,2021

DSC4.2021 Date of Registration Date of commencement of testing 96 04 2021

Found ek

Date of completion of testing 6.04.2021

Semple condélion at receips Sample tested as received

Sampling Details

Sampling Method/Poterdure: IS 3025 Part 1

General Cardronment conditions: ok : Page No. 1 of 1

TEST RESULTS.

ś.	Test Parameter	Lnate	Test Method	Result	Limes for Stream Water
Νų.	Test Furthwiller	Cons	Lean Missionera		Standards
L,	Celnut	Hazon Units, Max	15 3025 (Pret-4)	05	4161
7	∌F	**	IS 3025 (Pan-11)	6.75	A.Star#S
3_	Total Dissilved Solids	rigit, Mix.	18 3025 (Part-16)	132	1500
C	Chloride (as C/)	ng/l. Msx.	IS 3025 (Pon-17)	IS	600
5,	iron las i c)	ng/l. Max.	31t; Biol APHA 23 th Corden 2017	0.65	50
4	Sulphates (as SO ₄)	ngil, Mixi	15 3025 (Part-21)	32	4.5+
ī	clounde (as f)	mgil, Max	1500 F D; APHA 23 ^M Edition 2017	4. 20	LS
8.	Nursies (as NO ₁)	mgil, Max	45(0-MJr-I) OV Spectropheternovin, Screening Method	15	50
9	Copper (as Cu)	mg/ . Mes.	3111 B of APEA 21 [®] E3con 2017	~0.02	LS
10.	Solonium (as Sej	тул Мак	3114 B of APHA 23 ⁴ Edition 2012	<0.01	309
r.	Zinc (us Zn)	mg/l, Max.	3/11 K of APHA 23 ^d Edition 2017	0.BH	15
17	Carlmon (in Cel)	ma/ Max.	3111 Bing APHA 23 rd Edmon 2017	-01.00Js	<0.1
13	Load (as Po)	mg/L Mass	3111 Til of APHA 23 rd Edition 2017	<0.1	0.1
ĮΨ	Alselic (as As)	mg/l, Mex.	2114 C of APAA 22 rd 1400co 2017	<0.01	U ₁ 2
IS.	Cyanide Jas CN1	ng/I Mas	4500 CN F, Color metric Method, APHA 21 rd Edizion 2017	<0.112	0.03
14	Chryspager (34 Cr ^{2k})	mge, Max	311 (B) of APHA 23 ^M Edition 2017	0.05	01%
17.	Assemb Objergons (as MBAS)	mg/l. Max	Appeal Nof IN 13248	্বা.1	I
18	Plicteric Compounds (as C, H₁QH)	mgd Mps.	15 3925 (Part+3)	-ay001	9,005
19.	BOD (ps O ₂)	mg/l	(9.9)25 (Pan 44)	+	3
70,1	Desolved (Poygen (as (%)	mg/l, Min	18 3025 (Part-38)	5.3	4
21.	Office Grease	mgil, Max	18 3025 (Part-3%)	< 1	12.1
22	Total Coliforn	(mpr/HK/ml).Max.	ES .622	366	5000

Interpretation of results: Nil, Deviation from ket method. Nil

4" Floor, 'AMITY VILLE', 12-13-1270/71/73,

*** End of the Report ***

*Complaints Register is available at Laborators

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portred Signatory Chandra Moulk) conmental Scientist

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Website : www.bschvitech.com CIN No.:: U74210TG1999PTC03235R

WATER FLOW RATE REPORT

APRIL - 2021



Recognized by MoEF & CC, Gol: 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
1.27	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.,

uthorized Signatory

"Complaints Register & available at Laboratory,

Website : www.bsenvitech.com CIN No. 1074210TG1999PTC032358

GROUND WATER
QUALITY REPORT

MAY - 2021



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

TEST REPORT

Name & Address of the Customer : M/s, JSW Steel Limited

Test Report No.: BSET/2021/WS-01293

Lab Code No.

: 214920505

Isano Dare

1.25.05.2021

Your Ref

: Letter Dated 15.05.2021

Date of Receipt 7 15.05,2021

Project Name: Jajung Iron ore Mines Sample Description: Ground Water Sample

Quy

r 1 No. x 2.0 Etrs Sample

I No 3,500 mt Sample(Metals)

I Nu x 250 ml Sample (Microbiology).

Packing.

: Plastic Boitle & Pro-Siemlized Boitle

Test Required: As given below

15.05.2021 Date of Registration 15.05.2021 Date of commencement of testing 24/05/2021 Date of completion of testing Sample condition at receipt Found ok

Sample tested as received.

Sampling Details

Date of Sampling: 40 05 2021

Lineation of Sampling: Bore we'll Kamalpur V-Lage

Sampling Method/Procedure: 18 2025 Part 1.

General Environment conditions: Ch.

Page No: 1 of 2

TEST RESULTS

s.						irement as per 10500:2012
Nu.	Test Parameter	Units	Test Method	Repuli	Acceptable limits	Parmissible limits in absence of alternative source
1.	Odour	75	1S 3025 -Part-5	Agreeable	Agrecable	Agrocablo
2.	Colour	Hilzen	18 3025 -Pan-4	< 5	5	15
3,	рН	+	IS. 3025- Part-11	6.72	6.5-8.5	No Relaxation
4.	Terbidity	NTU	IS: 5025 -Part-10	<1	1	5
5,	Total Hardness as CaOO ₃	mgil	IS:3025 Part 21	68	200	6110
6,	Cron 4s Fe	mg/l	3111 B of APHA 23 rd Edition 2017	0.07	L.D	Nu Relaxation
7,	Chlorides as Cl	mg/l	\$\$:3025 -Part-32	50	250	1000
8.	Total Disselved Solids (#105°C	mg/l	15:3025 - Pan-16	20K	500	24100
90	Calcium as Ca	ingil	ES:3025 - Part-40	24	75	200
IU.	Magnesium as Mg	ingil	ES: 3025 - Part-46	1.9	30	100
H _{ic}	Sulphate as SO ₃	mg/l	FS:3025 -Part-24	26	200	400
12.	Natrate as NO ₅	m.g/l	4500-NO ₂ -B UV Spectrophotometric Screening Method	13	45	No Relaxation
13,5	Fluoride as F	ntg/l	4500-F D. APHA 23 rd Edition 2017	0.42	1	1.5
14.	Total Alkalinity as CaCO;	mg/l	IS:3025 -Pan-23	52	200	600

Interpretation of results, Nil, Deviation from test methial; Nil-

Anthorized Signatory (AnChandra Mouli) Environmental Scientist

"Complaints Register is available at Laboratory."

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Website #www.bsenvitech.com

CIN No. 1 U74210TG 1999PTC032358



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

TEST REPORT

Name & Address of the Customer: Mrs. JSW Steel Limited

Test Report No. : BSBT/2021/WS-0-295

Lab Code No

. 210920505

Issue Date

1200 50 65 4

Your Ref

: Letter Dated 15,05,2021

Project Name: Jajang Iron ore Mines

Date of Receipt : 15 05,2021

Qty

Sample Description: Ground Water Sample

: I No. x 2.0 Ltrs Sample

I No. x 500 ml Sample(Merals).

LNe x 250 ml Sample (Microbiology)

Packing.

: Plastro Bottle & Pro-Sterifized Bottle

Test Required: As given helow

Date of Registration 15 05 2021 15 05.2021 Date of commencement of testing Date of completion of lepting 24 (15.2021) Sample condition at receipt Found ok

Sample tested as received.

Sampling Details

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 Not 2 of 2

TEST RESULTS

ş.	n'					rement as per 10500:2012
No.	Test Parameter	Daits	Test Method	Result	Acceptable limits	Permiusible limite in absence of alternative source
B	Beron as B	mg/l	4500-B B. Curcumin Method. APHA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Alummium as Al	mg/l	3500 ALB Erichneme Cyatune Rimethad	< 0.02	0.03	0.2
II.	Copper as Cu	nigil	3111 B of APHA 23 ⁸ Edition 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 B of APHA 23 ¹¹ Edition 2017	< 0.02	0.1	0.3
19,	Selenium as Se	mg/l	3114 Claf APHA 23 th Edition 2017	< 0.01	0.01	No Reloxation
20	Zinc as Zn	mg/l	JULI R of APHA 25 th Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	ing/l	3111 C of APHA 23 * Edition 2017	< 0.003	0.003	No Relaxation
22	Leart as Pb	mg/l	3111 C of APHA 23" Edition 2017	< 0.01	0.01	No Relination
27_	Mercury as Hg	mg/l	3112 B of APHA 23 th Edinas 2017	< 0.001	0001	No Relaxation
24.	Total Assente as As	mg/l	3134 Clof APHA 23 st Edition 2017	< 0.44	0.01	0.05
25.	Total Chromium as Cr	mg/l	3111 Clof APHA 23 th Edinon 2017	< 0.02	0.05	No Relaxation
26.	Total Coldoms	CFU/100mk	IS: 1622 1981	Absent	1	8

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

Authorized Signatory G Chandra Mouli) Covironmental Scientist

es bod of the Reported

*Complaints Register is available at Laboratory.

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CIN No. 1 U74210TG 1989PTC032358



Packing

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Customer : M/s. JSW Seet Limited

Test Report No.: BSET/2021/WS-01296

Lab Code No. : 210920405

lasue Date : 25.05.2021

Your Ref

2 Letter Dated 15 05 2021

Date of Receipt 7 15.05.2821

Swaple Description: Ground Water Sample

Project Name: Jajang from ore Mines

Qıy. : I No. a 2.0 Ltrs Sample

1 No. x 500 ml Sample(Metals):

1 No.s 250 ml Sample (Microbiology)

: Plastic Bottle & Pre-Stenlized Bottle

Test Required: As given below.

Date of Registration 15.05 2021 15/05/2021 Date of commencement of testing 24 05:2021 Nate of completion of testing Sample condition at receipt Tound ok

Sample tested as received

Sampling Details

Date of Sampling: 10.05.2021

Location of Sumpling: Bore well Jajong Village

Sampling Method/Procedure: 18 3025 Part I.

General Environment conditions: Ok

Page No: 1 of 2

TEST RESULTS

S.					Requirement as per IS 10500:2012	
No.	Test Parameter	Units	Test Method	Result	Acceptable Bimits	Fermissible limbs in whence of alternative source
J,	Odour	777	15:3025 -Part-5	Agreeable	Agrecable	Agreeable
2,	Colout	Hazen	[5:3025 -Port-4	< 5	5	15
3.	pli	**	IS:3025- Part-11	6.83	6 5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	<1	T.	5
5.	Total Hardness ns CaCO ₁	ngil	IS:3025 -Part 21	94	200	600
6.	Iron as Ге	mg/l	3111 B of APIIA 23 rd Edition 2017	0.09	1.31	No Relacation
7.	Chlorides as Cl	mg/I	18-3025 -Part-32	58	230	1000
8.	Tutal Dissolved Solids @ 105°C	mg/l	IS:3025 - Part-16	220	501)	2000
9.	Calcium as Ca	mgri	IS.3025 - Part-40	12	75	200
10	Magnesium as Mg	mgʻl	IS:3025 (Part-46	3,4	30	100
H _e	Sulphete as SO ₄	nig/l	15:3025 -Pagt-24	29	200	400
12.	Nitrate as NO ₄	mg/l	4300-NO ₃ -B UV Spectrophosometric Screening Method	15	45	No Relaxation
13,	Fluoride as F	ing/l	4500-F D, APHA 23 rd Edition 2017	0.36		1.5
14.	Total Alkalinity as CaCO ₄	mg/l	18:3025 -Part-23	46	200	60D

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

pathorized Signatory Chandra Mouli Environmental Scientist

*Complaints Register is available at Laboratory.

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Websile | www.bsenvitech.com

CIN No. 1 LI7421FTG1999PTC032358



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

TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited

Test Report No. : BSFT/2021/WS-01296

Lab Code No.

: 210920405

Issue Date

: 25.05.2021

Your Ref.

: Letter Dated 15.05.2021

Date of Receipt : 15 05,2021

Project Name: Jajang Iron ore Mines

Sample Description: Ground Water Sample 1 I No. x 2.0 Lirx Sample

1 No. x 500 ml Sample(Metals)

1 No.x 250 ml Sample (Microbiology).

Packing

Plastic Bottle & Pre-Sterifized Bottle

Test Required : As given below

15 05,2021 Date of Registration. Date of commencement of testing 15 05 202 (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

5.						rement as per 10500:2012
No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible limits In absence of alternative source
lặg	Boron as B	mg/I	4500-B B. Curcumin Method, APHA 23 rd Edition 2017	< 0.10	0,5	2.4
16.	Aluminium as Al	mg/l	3500 All B – Bradmonte Cyanine R method	< 0.02	0.03	0.2
172	Copper as Cu	ngil	3111 B of APHA 23 rd folition 2017	< 0,02	0.05	1.5
18	Manganose as Mn	ng/l	3111 B of APHA 23 rd Edition 2017	< 0.02	0.1	0.3
19,	Selenium as Se	mg/l	3114 Clof APHA 25 th Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as 7n	mg/l	31 1 B of APHA 23 th Edition 2017	< 0.02	٩	15
21,5	Cridmium as Cd	nig/l	3111 C of APHA 23 ¹¹ Edmop 2017	< 0.003	0.003	No Relaxation
22.	Lead as Pb	mg/l	3111 Clof APHA 212 Edition 2017	< 0.01	0.01	No Relaxation
23,	Mercury as Fig	ingl	3112 0 of APSIA 23 th Edition 2017	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	ingil	3114 C of APH 4 23 Fedition 2017	< 0.01	0.01	0.05
25)	Total Chromium as Cr	mg/l	111) Clof APHA 23 Edition 2017	< 0.02	0.415	No Relaxation
26.	Total Columnis	CFU/10lm1	IS 1622 [98]	Absent	ECA	1.5

Interpretation of results: Nit, Doy alson from test method: Nit

samprized Signatory (G,Chandra Mouli) Environmental Scientist

e- End of the Meson --

"Complaints Register is available at Laboratory.

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

TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited

Test Report No.: BSET/2021/WS-01297.

Lab Code No

: 710920905

Desire Date

: 25.05.2021

Your Ref

: Letter Dated 15 05,2021

Date of Receipt : 15.05.2021

Project Name: Jajang Iron ore Mines Sample Description: Ground Water Sample

Qty.

(1 No. 4 2.0 Litts Sample

I No. x 500 ml Sample(Metals):

1 No x 250 ml Sample (Microbiology).

Pecking

: Plastic Bortle & Pro-Stenlized Hortle

Test Required: As given below

Sample lested as received

Date of commencement of testing

Date of completion of testing

Sample condition at receipt

Date of Registration

Sampling Details

Date of Sampling: 10:05:2021

Location of Sampling: Dug well denidi Vi lage

Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Oc.

Page No: 1 of 2

15.05 2021

15.05.2021

24.05.2021

Found ok

TEST RESULTS

s.					Requirement as per TS 10500:2012	
No.	Test Parameter	Lnits	Lest Method	Result	Acceptable limits	Permissible limits In absence of alternative source
1,	Odour	100	15:3025 -Part-5	Agreeable	Agrocable	Agrocable
2,	Colour	Hazen	1S:3025 -Part-4	< 5	5	1.5
1,	рН	:ee	IS:3025- Purt-11	6.88	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	<1	1	5
5.	Total Hardness as CaCO ₁	mg/l	IS, 3025 -Pan-21	86	200	600
6;	Iron as Fe	mg/l	311.1 B of APHA 23th Edition 2017	0.07	1.0	No Reinsation
$\overline{Z}_{(k)}$	Cidorides as Cl	mg:l	IS:3025 -Part-32	45	250	1000
8,	Tutal Disselved Solids @:105°C	mg/l	US:3025 - Part-16	206	500	2000
9.	Calcium as Ca	mg/l	IS:3025- Part-40	ZH	75	200
10.	Марлозішт аз Мд	mg/l	IS.3025 -Part-46	3.9	30	100
H.	Sulphate as SO ₄	mg/l	15:3025 -Part-24	31	200	400
12.	Nurate as NO ₃	mg/l	4500-NO-JB DV Spectrophotomotic Screening Method	17	45	No Relaxation
13.	Fluoride as F	mg/l	4590-F D. APHA 23 th Edition 2017	0.42	1	1.5
14.	Total Alkalinity as CaCO _{1,}	mg/l	IS:3025 -Part-23	50	C/4200	600

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

Authorized Signatory ('C.Chandra Moult') C'BA Environmental Scientist

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Website www.bserwtech.com CIN No 1074210TG1999PTC03235B



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TEST REPORT

Name & Address of the Customer: M/r. JSW Steel Limited

Test Report No. : RSET/2021/WS-01297

Lab Code No : 210920305

Issue Date

: 25 05,2021

Your Ref

: Letter Dated 15/IS:2021

Date of Receipt : 15.05 2021

Project Name: Jajang Iron ore Mines

Sample Description: Ground Water Sample 2. I No. x 2.0 Ltrs Sample

1 No. a 500 nil Sample(Metals).

t No x 250 inf Sample (Microbiology)

Packing

: Plastic Bottle & Pre-Stembred Bettle

Test Required : As given below

15 05:2021 Date of Registration 15 05 2021 Date of commencement of testing Date of completion of testing 24 (15.2021) Found ok Sample condition at receipt

Sample tested as received.

Sampling Details

Date of Sampling: 10.03.2021

Location of Sampling: Dug well Japan Village

Sampling Method/Procedure: IS 3025 Part 1. General Environment conditions: Ok.

Page Not 2 of 2

TEST RESIJUTS

S.	1-					rement as per 10500:2012
Νo.	Test Payameter	Units	Test Method	Result	Acceptable limits	Permissible Nmits in absence of alternative source
1.5.	Borgn as B	ntgil	4500-B B. Curcumn Method, APBA 23 th Edition 2017	< 0.10	0.5	2.4
16.	Aluminum as Al	mg·1	3500 ALB Erichtome Cyannie Ritherhed	< 0.02	0.03	0.2
17,	Copper as Cu	ருழ ி	31" LB of APHA 23" Edition 2017	< 0.02	0.05	1.5
18	Manganese as Mn	r _{igm}	3111 B of APBA 23 ¹¹ Edition 2017	< 0.02	0.1	0.1
19,	Scienium as Sc	mg/l	3114 Clof APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20.	Zinc as Zn	пда	3111 B of APHA 23 rd Edition 2017	< 0.02	>	15
21.	Codmium as Cd	aigh	3111 C of APIIA 23 st Edition 2017	< 0.003	40 db3	No Relaxation
22	Load as Ph	mg/t	3111 Clos APHA 23" Edinon 2017	< 0.01	0.04	No Re avation
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	nigit	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 Edinion 2017	< 0.02	0.05	No Relaxation
26.	Lotal Coldonns	CEU/100ml	TS: 1622 - 1981	Absent	500	W

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

Authorized Signatory (C. Chandra Munii) Environmental Scientist

see End of the Reporters

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Wabsite : www.bsenvilech.com

CIN No. 1074210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer: M/r. JSW Steel Limited

Test Report No.: BSET/2021/WS-01296

Lab Cude No

: 210920205

Issue Dare

: 25.03 2021

Your Ref

: Letter Dated 15.05 2921

Date of Receipt : 15.05,2021

Project Name: Jajang Iron ore Mines Sample Description: Ground Water Sample

Qъ

: 1 No. x 2.0 Ltrs Sample

I No. x 500 and Sample(Metals):

I No x 250 ml Sample (Microbiology)

Packing

: Plastic Britle & Pre-Stenlized Borde

Test Required: As given below

15.05.2021 Date of Registration Date of commencement of testing 15.05.2021 24.05.2021 Date of completion of testing Sample condition at receipt Found ok

Sample tested as received

Sampling Details

Date of Sampling: 10.05,2021

Location of Sampling: Bore well Jalaham Village

Sampling Method/Procedure: IS 3025 Part 1. General Environment conditions: Ok.

Page No: 1 of 2

TEST RESULTS

s.					Requirement as per LS 10500:2012	
No.	Tesi Parameter	Units	Test Method	Result	Acceptable limits	Permissible Itrals in obsence of alternative source
1,	Odear	75	IS:3025 -Part-5	Agreeable	Agreeable	Agreeable
2.	Colour	1[azen	IS:3025 -Part-4	< 5	5	15
3,	ρН	-46	15:3025- Part-11	6.69	6.5-8.5	No Relaxation
4.	Титыбију	NTU	15:3025 -Part-10	<1		.5
5.	Total Bantness as CaCΩ ₁	mg/1	IS:3025 -Part-28	54	200	600
6.	Jeon as Fe	mg/l	3111 Blof APHA 23 rd Edition 2017	0.07	1.0	No Relaxation
7,	Chlorides as Cl	mg/l	IS:3025 -Part-32	42	250	10(11)
8.	Fotal Dissolved Solids for 105°C	mg/I	IS:3025 - Part-16	198	5410	2000
9,	Calcium 23 Ca	mg/l	IS:3025- Part-40	Iá	75	200
Iđ.	Magnesium as Mg	mg/f	JS.3025 -Part-46	2.4	30	100
U.	Sulphale as SO ₄	mg/l	15 3025 -Part-24	20	200	400
12.	Nitrate as NO;	ing/l	4500-NO ₃ -B UV Spectraphotometric Screening Method	13	45	No Relaxation
13.	Fluoride 28 F	mg/l	4500-F D. APHA 23 th Edition 2017	0.45	1	1.5
14.	Total Alkalimity as CaCO,	mg/l	IS:3025 -Part-23	58	(EG00	600

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

(G.Chandra Mauli) C'B 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

Lab Code No

. 210920205

Issue Date

: 25 05 2021

Your Ref.

: Letter Dated 15.05.2021

Date of Receipt : 15.05.2021

Project Name: Jajang Icun ore Mines

Qı,

Sample Description: Ground Water Sample : 1 No. x 2.0 Lits Sample

I No a 500 ml Sample(Meials)

I No x 250 ml Sample (Microbiology).

Packing

: Plastic Bortle & Pre-Stentized Bottle

Test Required: As given below

15.05 2021 Date of Registration 15.05 2021 Date of commencement of testing Date of completion of testing 24,05,2021 Found ok Sample condition at receipt

Sample tested as received.

Sampling Details

Date of Sampling: 10 05:2021

Location of Sampling: Bore well Jolahan Village

Sampling Method/Procedure: IS 3025 Part 1 General Environment conditions: Ok-

Page No: 2 of 2

TEST RESULTS

						rément às pér 10500:2012
S. Nu.	Test Parameter	Units	Test Method	Result	Acceptable linuits	Permissible limits in absence of alternative source
15.	Burun as B	ing/l	4500-B B. Curcumin Method, APHA 23 rd Edition 2017	< 0.10	D.5	2.4
16	Aluminium as Al	mg/l	3500 ALB – Erichnome Cyanine Rinerhod	< 0.02	0.03	0.2
67.	Copper as Cu	Ing/I	3111 B of APHA 23 ^{rt} Ethbor 2017	< 0.02	0.05	1.5
IK.	Manganese av Mn	mg/l	3111 Blof APHA 23 ^{rt} Edmor 2017	< 0,02	0.1	0.3
19.	Selenium as So	mg/l	3114 Clof APHA 23 rd Edition 2017	< 0.01	0.01	No Relaxation
20-	Zinc as Zn	n\w\l	3111 B of APHA 23 th Ethnor 2017	< 0.02	2	15
216	Cadmium as Cd	mg/I	3101 Clof APHA 23 ¹¹ Edition 2017	< 0.003	0.003	No Relaxation
22	Lead as Ph	mg/l	310 LC of APHA 23 rd Edition 2017	< 0.01	0.401	No Relaxation
23.	Mecoury as Hg	mg/l	31:2 B of APHA 23 ⁴ Editor 2017	< 0.001	0.001	No Relexation
24.	Total Arseme as As	mg/l	3104 Clos APHA 23 rd Edman 2017	< 0.01	0.00	0.05
25	Total Chromium as Cr	mg/l	3111 Clof APHA 23 rd Edition, 2017	< 0.02	0.05	No Relaxation
26	Total Colliforms	CFU/100ml	(8 1622 - 1981	Absent		•

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

Authorized Signatory G.Chandra Moull 1 nyironmental Scientist

... End of the Reportion

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CIN No. EU74210TG1999PTC032358



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TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited Test Report No. : BSET/2021: 9/5-01299 Lab Code No. : 210920105 Issue Dute : 25 05 2021 Your Ref. : Letter Dated 15.05.2021 Project Name: Jajang Iron ure Mines Date of Receipt 2 15 05 2021 Sample Description: Ground Water Sanyole Date of Registration 15.05.2021 Qty. : 1 No. x 2.0 Ltis Sample Date of commencement of testing 15 05 2021

I No. x 500 ml SampletMetals).

Date of completion of testing 24.05 2021 I Nu x 250 ml Sample (Microbiology) Sample condition at receipt Found uk

Sample tested as received Test Required: As given helow

: Plastic Bonio & Pre-Sterihaist Bottle

Sampling Details

Date of Sampling: 10:05,2021 Sampling Method/Procedure: (\$ 3025 Part 1) Location of Sampling: Tap Water Near Jajane, Village General Environment conditions: Ok.

Page Not 1 of 2

TOST RESULTS

5.	Fort Burnard				Requirement as per IS 10500:2012		
No.	Test Parameter Units Test Method		Result	Acceptable limits	Permissible limits in absence of alternative source		
1.	Odeur	124	IS:3025 -Part-5	Agrecuble	Agreeable	Agreeable	
2,	Colour	Ниден	15.3025 -Part-4	< 5	5	15	
3,	pEC .	200	IS:3025- Part-11	6.77	6.5-8.5	No Relacation	
4,	Turhidity	NTU	IS:1025 -Part-10	<.1	1	5	
s.	Total Handness as CaCO:	mg/l	15:3025 -Parr-21	56	200	600	
ń.	Jean as Fe	mg/I	3111 Biol APHA 23 ^K Edition 20:7	0.09	1,0	No Relaxation	
7.	Chlorides as C.	mgd	JS:3025 -Part/32	38	250	1000	
К.	Total Dissolved Solida - ig105°C	ngd	IS:3025 - Part-16	202	500	ZONO	
9.	Calcium as Ca	mgd	45:3025- Part-40	20	75	2011	
ነቡ	Мадпозици за Мд	mg/l	(S:3025 -Part-46	1.5	30	HOI	
H.	Sulphate as SO ₃	mg/l	IS:3025 -Part-24	32	200	400	
12.	Nutrate as NO ₃	mg/l	4500-NO ₂ -B UV Spectrophotometric Screening, Method	18	45	No Relexation	
13.	Fluonde as F	mg/l	450N-F D, APHA 23 rd Edition 2017	0.41	I	1.5	
14.	Total Alkalinity as CaCO _{1,}	irig/I	IS:3025 (Part-23)	50	200	6110	

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

Authorized Signatory (CoChandra Mouli) Environmental Scientist

*Complaints Register is available at Laboratory

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CIN No. 3 J74210TG1999PTC032358.



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TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited Test Report No. : BSFT/2021/WS-01299 Lab Code No. : 210920305 Issue Date : 25 05,2021 Your Ref. : Lotter Dated 15.05.2021 Project Name: Jajang Iron ore Mines Date of Receipt : 15,05,2021 Sample Description: Ground Water Sample Date of Registration. 15 05:2021 1. I No. x 2/3 Lirs Sample Qıy. Date of commencement of testing 15 05,2021 I No. x 500 ml Sample (Metals): Date of completion of leiting 24.05.2021 1 No x 250 m1 Sample (Microbiology) Sample condition at receipt Found ak Packing Plastic Bottle & Pre-Stantized Bottle

Plastic Bottle & Pre-Steribzed Bottle
Sample tested as received.

Test Required: As given helow

Sampling Details

Date of Sampling: 10.05.2021

Location of Sampling: Tap Water Near Jajang, Village

Sampling Method/Procedure: IS 3025 Part ! Concrat Environment conditions: Ok

Page No: 2 of 2

TEST RESULTS

\$.	7.1				Requirement as per IS 10500:2012		
Ño.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible timits in absence of alternative source	
15,	Boron as B	mg/l	45/MLB B Cureumin Method, APHA 23 rd Edition 2017	< 0.10	0.5	24	
16.	Aluminium as Al	nigit	5500 Al B – Erichrema Cyunine R method	< 0.02	0.03	0.2	
17.	Copper as Cu	mg/l	3111 B of APHA 23 rd Edmon 2017	< 0.02	0.115	1.5	
18.	Maitganose as Mn	mg/l	3111 B of APHA 23 rd Edmon 2017	< 0.02	0.1	03	
19.	Selenium ax Se	mgil	3114 C of APSIA 231 Edition 2017	< 0.01	0.01	No Relaxation	
20,	Zinc as Zr	mg/l	3101 B of APHA 23 rd Edition 2017	< 0.02	5	15	
21,	Cadmium as Cd	mg/l	3[11 C of APHA 23 st Edition 2017	< 0.003	0.003	No Reinsation	
22.	Lead as Pb	mg/l	3111 C of APHA 23 st Edition 2017	< 0.01	4,01	No Relaxation	
210	Mercory as Hg	mg/l	3112 B of APHA 23 ^{rt} Edition 2017	< 0.001	0.001	No Relaxation	
24.	Total Assembles As	mg/l	3) 14 C of APHA 23° Edition 2017	10.0	4.01	0.05	
25.	Total Chromium as Cr	ng/l	3111 C of APHA 21 rd Edition 2017	< 0.02	0.05	No Relaxation	
26,	Tetal Coliforms	CFU/IIIOmi	15: 1622 1981	Absent		88	

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

Authorized Signatory (G.) handra Mouli) Environmental Scientiar

44 East of the Report 44

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Email : lab@bsenvitech.com, info@bsenvitech.com Website : www.bsenvitech.com

CIN No. : D74210TG1999PTC032358



Packing

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited Test Report No. : B3ET/2021/WS-01300 Lab Code No. . 210920005 fasue Date 125 05 2021 Your Ref. alletter Dated 15.85,2029 Dute of Receipt : 15 05,2021 Project Name: Jujung Iron are Mines Sample Description: Ground Water Sample Date of Registration 15 05:2021 Qly. : I No. x 2.8 Ltrs Sample Date of commencement of testing 15 05 2021 1 No. x 500 ml/Sample; Metals). Date of completion of testing 24 (05.2021)

1 No x 250 ml Sample (Microbiology) Sample condition at receipt Found ok

Sumple tested as received Test Required: As given below

Sampling Details

: Plastic Bottle & Pro Sterilized Bottle

Date of Sampling: 10.05.2021 Sampling Method/Procedure: IS 3025 Pan 1 Eneration of Sampling: Dog well Near BIL Siding General Environment conditions: Ok

Page No: 1 of 2

TEST RESULTS

5.					Requirement as per IS 10500:2012		
Nu.	Test Parameter	Umbis	mhis Teet Method	Result	Acceptable linuits	Permissible limits in absence of alternative source	
L	Cklour	649	IS:3025 (Part 5	Agreeable	Agreeable	Agrocable	
2.	Colour	Hazon	IS:3025 Part 4	< 5	5	15	
3.	рн		IS-3025- Part-11	6.81	6.5-8.5	No Relexation	
4.	Turbidiry	MIL	IS:3025 -Purt-10	<1	L	5	
5.	Total Hurdness as CuCO,	mgil	IS:3025 -Part-21	52	200	600	
6,	Iron as Fe	nıgı	311.1 Blaf APHA 23 ⁴ Edition 2017	0.08	1.0	No Relaxation	
7.	Chlorides as Cl	mg/l	IS:3025 sPart (32	44	250	1000	
×,	Total Obselved Solids 66105°C	ingl	15:3025 - Part-16	196	500	2000	
9,	Calcium as Ca	mg,l	TS:3025- Part-40	18	75	2110	
10.	Magazstum as Mg	mp/l	IS:3025 -Pan-46	1.7	30	100	
H,	Sulphate as SO ₄	mg/l	18.3025 -Part-24	25	200	400	
12.	Nitrate as NO ₅	mg/l	4500-VQ-BIJV Spectrophetometric Screening Method	13	45	No Relayation	
13,	Fluoride as 61	mg/l	4500-F D; APHA 23 rd Edition 2017	0.39	1	1.5	
14.	Total Alkalinity as CaCO ₃	mg/l	IS:1025 (Part-23)	56	200	600	

Interpretation of results. Not, Deviation from rest method: Not

ithorized Signatory (Chandra Mouti) nyyonmental Scientist

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Wabsite www.bsenvitech.com CIN No. ± U74210TG1999PTC032358



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TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited

Post Report No.: BS61/3921/WS-01390

Lab Code No.

: 21KH92D005

Issue Date

:25.05.2021

Your Ref.

: Letter Dated 15 05,2021

Project Name: Jajang from ore Mines

Date of Receipt : 15.05.2021

Sample Description: Ground Water Sample

: 1 No. x 2.0 Lars Sample

I No. x 500 ml Samplo(Metals).

I No.x 250 inl. Sample (Microbiology):

Packing

: Plastic Brittle & Pre-Sterilized Bohile

Test Required: As given below:

Sample condition at receipt Sample tested as received

Date of commencement of testing

Date of completion of testing

Date of Registration

Sampling Details

Pate of Sampling: 10.05.2021.

Location of Sampling: Dug well Near BH. Siding.

Sampling Method/Procedure: IS 3025 Part 1

General Environment conditions: Ok

Page No: 2 of 2

15.05.2021

15.05.2021

24,05,2021

Found ok

TEST RESULTS.

S.			Units Test Method		Requirement ps per IS 10500:2012	
No.	Test Parameter	Units		Repult	Acceptable limits	Permissible limits in absence of alternative source
15.	Rargen us B	nig/I	4500-B B. Curcumin Method, APHA 23 th Edition 2017	< 0.10	0,5	2.4
16.	Altuminum as Al	π <u>.υ</u> /1	3500 ALB Erichrome Cyanare Rimethod	< 0.02	0.03	0.2
17,	Copper as Cu	otg/l	3111 B of APUA 23" Edition 2017	< 0.02	0.05	1.5
18.	Мяпдипечо as Min	ngil	3111 B of APHA 23 ³ Edition 2017	< 0.02	01	0.3
19.	Selemmen as Se	mg/l	3114 Clof APHA 20 rd Edition 3947	< 0.01	17.171	Nu Relacation
20.	Zinc as Zn	mg/l	30[1 B of APHA 21 rd Edition 2017	< 0.02	5	15
21.	Cadmium as Cd	ngl	3111 Claf APBA 21 ^{ol} Edition 2017	< 0.003	0.003	No Relaxation
22.	Load as Pb	ngit	3111 C of APHA 23 rd Edmon 2017	< 0.01	0.01	No Relacation
23.	Mercury as 11g	mg/l	3112 B of APHA 23 rd Edition 2017	< 0.001	0.000	No Relayation
24	Ectal Arsenic as As	mg/I	3114 Claf 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	41.05	No Relaxation
25.	Total Coldonns	CFU/100ml	18: 1622 - 1981	Absent		•

Interpretation of results. Nill, Deviation from test method: Nill

Authorized Signatory (G.Chandra Mouli) Environmental Scientist

· End of the Report

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EmaJ

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Website Ewww.bsenvilech.com/ QIN No. #U74210TG1999PTC032358

GROUND WATER LEVEL REPORT

MAY - 2021



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

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

8.No	Location	Ground Water Level In Meters
10	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 Welt BIL Siding	5 15

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

uthorised Signatory

*Complaints Register is available at Laboratory

Email (Jab@bsenvitech.com, info@bsenvitech.com Website (www.bsenvitech.com

CIN No. # U74210TG1999PTC032358

SURFACE WATER QUALITY REPORT

MAY - 2021



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

TEST REPORT

Name & Address of the Casannier; Mys. JSW Steel Limited Test Report No. : HSH 1/2/02/7/WS-00290 Lab Code No. 210921045 liste Date . 25315 21121 Your Ref. (1 ofter Deted (3.05.2021) Project Name: Jajang Iron are Miney Date of Retript in 15 05 2021 Sample Description: Surface Water Sample Date of Heghtration 15.05.2901 11 No. x5.0 Lira Sangio Quantity

1 Nn ik 300 ml Sample (Metals). 1 No. 5, 500 mt Wide mourb Glass baltle for O&G

1 No. x 250 ml Sample Pro Stonleard Bottle For Migro

Perking : Plasne Boules Test Required As green below

Location of Sampling: Buitarunt River Hystream

Date of Specifing: 10 05:2021

Date of commencement of festing 15.05,3021 24/05/201 Date of completion of testing Sample condition of receipt Found ok Sample resided as received

Sampling Details

Sampling Method/Procedure: [5 3025 Part]

General Environment conditions: old ,

Pege No. 1 of 1

TENT RESULTS

5. [4e.	Teri Parameter	Pales	Test Method	Result	Limits for Stream Water Stredards
1,	Culaur	Hazen Driis, Max.	IS 3025 (Part-4)	4	360
ż.	pli		15 3025 (Part-11)	6.87	6,2 to 8,3
2	Fotal Described 5nl dz	mgil, Max	15 0025 (Part-15)	134	(500)
4	Chloride (as C1)	mg/l, Max	IS 3025 (Pagt-32)	9.0	600
5	fron (as Je)	mg/l, Mas	3011 Blof AFIIA 20 ^{rt} Edition 2017	W.29	511
Α.	Sulphabes (as \$O ₄)	mg/l, Max.	IS 3025 (Part-20)	28	406
2,	Fluoride (es F)	mg/l, Mgs	4505-P D; APHA 23 rd Edmon 2017	0.17	1.5
4	Numnes (as NID ₁)	mg/l, Man	45IK-NO ₁ -IS UV Spectrophotometria Sentening Mediad	9.6	50
9	Capper Jas Cuj	mg/I Max	APHA 21 rd Edition 2017	<0.02	1,5
10.	Solemum (as St.)	ing/I Mex.	1114 H of APJ4A 23 ¹⁵ Edmon 2017	<0.113	15/115
IJ,	Zinc (as Zn)	mg/I Max	APSIA 20° Edition 2017	0.04	15
12.	Cadming (as Cd)	cg/I Ma	3 11 9 of APSIA 23 th Edition 2017	×38,003	-01
13,	Lead (c. Ph)	mg/f. Max	Off III of APRIA 21 th Edition 2017	<0.01	II.)
14,	Arsenic (as As)	ng/t. Max	31 (4 C of APMA 33 rd Edition 2017	<0.01	П 2
15	Cyanide (as CK)	прі Мах.	4500 CN E, Corerimetric Medino, APHA 23 rd Edution 2017	-1M2	0.05
16.	Choomism (as C) **)	mg/l, Max	4111 H of AltriA 23° Edition 2017	<0.002	0.05
17.	Anionic Detergenis (as MBAS)	mg/l, Max	Armos, Kinf IS 13248	50.1	I I
IK,	Phennic Compounds, (as C ₆ H-OH)	mg/l, Max.	19 1025 (Part 43)	<0.001	U 905
٠٩.	BODias Oi)	mg·I	IS 3925 (Pan-44)	J	1
24	Dissulved Okygen (25 D ₂)	mg/l, Min	Lo 3025 (Pan-38)	27	1
21.	(h) & finesse	mg/l, Max	LS 3025 (Part-39)	41	0,1
22	Treat Coldana	(mpo/100mt),Max	IS 1672	240	5000

Interpretation of results: Nil, Deviation from (est method: Ni

End of the Report

*Complaints Register is available ant approaching

4" Floor, 'AMITY VILLE', 12-13-1270/71/73.

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borbed Signatury Germandra Mauti) hypropromental Scientisa

ിമ്മിയ്യിടെസ്വിട്ടേന്ന് info@bsenvituch.com Website www.bsenvilech.com

OIN No #U74210TG1999PTCf32358



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

TEST REPORT

Name & Address of the Customer : M/s, JSM: Steel I Instead

Test Report No. | BSBT/2021/WA-01291

Lab Code No 2110920005 Igning Distry : 25.03.2001

Project Sume: Jajang tron ore Manes

Year Hel 11 eact Oated 15.05,2001

Sample Pescription: Surface Water Sample

Date of Receipt 1: (505-2021)

Quantity ; 1 No 55 3 Lits Sample Make of Megistroope

1 No. x 500 oil Symply (Meals). No. a 500 ml Wide neath files factly in Q&G.

5,05,2,01 Date of continuous ment of testing 505 201

1 No. x 250 ml Sample Pre Sterthytal Honle For Michol

24,05,3021 Date of completion of testing

Packing : Plastic Bottley Test Required : As given below

Sample condition at receipt Found as Sample tested as received

Date of Samphag: 10305,2021

Sampling Details
Sampling Method-Procedure: 18.9 05 Pan 1

Lagation of Sampling: Balterum River Hownstream

General Environment conditions: ok . Page Nu. 1 of 1

LEST RESULTS

8. 80.	Fest Carameter	Ualls	Test Method	Reseale	Limits for Stream Vrater Standards
1,	Colon	Harm Units Max	IS 1027 (Pan-4)	IP.	300
2	LII		18 9925 (Part-11)	6.70	6,5 (u.8)5
),	Tigal ID scalved Solids	mg/I, Mex	15 3025 (Pan-16)	152	1500
4	Chloride (as Cit)	mg/I Max	15 3025 (Pan-32)	14	5.k)
4.	Juni (43 Fe)	nyo" Max	3111 H of APHA 23" Edition 2017	0.16	<i>j</i> 0
6	Sulphates (as 504)	rgot Max	IS 1925 (Pan-24)	14	400
7,	-Inmedictar Fi	cipil Max.	499(F1) APIIA 23* Edition 2/17	0.21	L4
8.	Notes (ra NOd	mg/l, Max	C/O NO. B UV Spectrophotomotric Screening, Method	15	50
9,	Copper (ak Cu)	og/l, Max.	3111 B of APIIA 23° I dition 2717	50.02	1,3
10,	Siffermann (ssy Se)	mgil. Max	51(4.9) of APUA 23" Edition 2017	-no	are
H,	Zetu (m. Ze)	mg/l. Max.	3111 B of APHA 23 ⁵⁰ Gagnin 2017	0.05	. ë
Iž,	Cadmium ray Cidi	mgl, Max	3.11 B of APHA 23 ^d Februar 2017	~IL403	시간
11,	Lend (as Ph)	ingt, Max	3111 B of AP:(A 23 f Edition 3)17	વા	Q1
ы	Aprenic (as As)	mg/l, Max	2114 C of APMA 22 rd Edmen 2017	~0.01	U2
D.	Cyanice (35 CN)	mg/l, Max	4509 CN E. Colombation Method. APDA 20 rd Lotton 2017	-90.02	1005
ΙĄ,	Chromium (& Cr ²)	ng/l, Mas	APITA 22 rd Edition 5017	0.05	0,125
17.	Attinit & Date gonts (45 MBAS)	mg/I Max	Acres, Kildrifs 13248	<0.1	1
ч.	Phenolic Compounds (as CsH ₂ OH)	myl Mus	(5 5025 (Port 41)	×0,404	0.005
14,	BOD ias Oyl	прі	15 ¥ (25 (85n.44)	6	A
211	Dissolval Osygonigas Og	mg4, Min	15 3025 (Pag-31)	4.9	4
21	Oil & Greave	mg/l, felox	15 (Y 25 (ran-39)	41	0,1
22	Ireal Conton	Import ti firm J. Max.	15:15:22	300	\$ SCIPI

Interpretation of results. Not. Deviation from test method. Not

"" Led of the Report

"Complaints Register is available at Laboratory

4° Floor, 'AMITY VILLE', 12-13-1270/71/73 St. Ann's Road Tamaka, Secunderabad - 900017, Telangana, India.

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ed Signatory Chrodra Neull tental Scientist

Email

: ab@bsenvitech.com, into@bsenviloch.com

Websile: "www.bserwiech.com CIN No. 1, J74210TG 1999PTC032358



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

TEST REPORT

Name & Address of the Costomer: 64%, \$5% Steel Minited

Test Report No. : BSD1/M21/WS-01292

Lah Code No

210920MIS

Project Numer: Jajang Iron ore Mines

Date of Namplag; 10,052021 Location of Sampling: Sung Nadi

1 25 05 2021 Issue Date Your Ref : Eatter Plated 15,05,0021

Sample Description: Surface Water Sample

Date of Receipt (15/05/2021)

: I No. xSC Liv Sample

Date of Registration

() manufacty

15/05/2021

1 No. x 500 ml Sample (Metals)

1505,2021 Date of elementment of testing

24,05,2021

NA in \$60 ml Wide mouth Class house for OSG I has a 250 ml Swigte Pre Steal and Bullic Fin Maga-

Date of completion of testing

Parking. Test Required

: Place of Bootes. As given below

Sample condition at receipt Sample tested as received.

Sampling Details

Nampling Method/Procedure: EX 2025 Part 1

General Ferresement conditions: c4

Page Net 1 of

raund ok

TEST RESULTS

S. No.	Tost Parámeter	Units	Test Maring)	Reside	Limits for Stream Water Standards
Ŀ,	Cillaui	Hoven Units, Alex.	IS 3025 (Part-4)	je.	¥00
2	pH	9	IS 3025 (Pan-11)	6.97	ذره مراذره
1	Total Oxyatyou Solids	mg/l, Max	IS 30025 (Part 16)	154	; 51Y1
4	Chloride (& C)	mg/l, Mas	IS 3005 (Pan-32)	10	600
5).	Iron (as /e)	mg/L Max	3111 B of AP(IA 27" Edinon 2017	0.34	ধ্ব
4.	Sulphates (as SO ₄)	mp/I Mex	IS 3025 (Port-24)	25	400
7.	Fluir de (a.F)	mg/l, Mws	458647D APHA 25 ⁴ Edward 277	0.42	1,5
8,	Nictiales (as NO ₁)	mg/ . Mex	4309-NCh-B UV Spectrophotometric Sciestinal Methic:	85	5-1
8.	Copeci (as Co)	mg/I, Max	5111 B of APRA 23 ⁴ Falsion 2017	40,02	1,5
m,	Solenium (23 Se)	mg/I, Max	3114 B of APHA 23 ⁴ 1.0 tion 2517	-040	Ojis
H.	Zinc (is Zh)	m _p /I Max	2311 B of APMA 23" ht Gen 2017	0.03	12
12,	Cadmium (as Cd)	ng/I Ma	2111 Pt of APHA 23° E01541 2017	<rb><a a="" h<="">)</rb>	(0)
13.	Lead (as Ph)	ng/I Max	301 B of APBA 23 ⁴ follows 2017	<11.01	a.
14,	Artenii for Asj	mg/I Max	3114 C of APHA 25 ⁴ Edition 2017	40.01	0.2
15.	Cvanuk (as CN)	ng/I Max	4500 CN E, Colombetre Method, APEA, 27 ^{et} (James 2017)	<0.02	0,05
lu,	ONOmium (as Cr ²⁸)	19/1 M2.	JEH B of APHA 2V ⁴ Inflien 2017	<11.02	0.05
17.	Anionia Deiergenes (as MRAS)	ng/ Max	Aures, Kiof IS 13248	< LI	1
18.	Phonon Compounds (as C, HZIII)	−g/I Mγ×.	IS 3025 (Part) 43)	a0,00]	9,995
ly,	Boticasiosi	mgal	IS 3035 (Part-44)	2)
200	Dissalved Oxygen (25 () ₄)	mg/l, Mat	IS 3005 (Pack-35)	56	4
2",	Oil & tjickey:	mg/, Max	IS 3025 (Part-39)	-51	3.7
22	Total Coliform	(mpr/10/ml),Max.	IN 1622	90	5000

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

*** End of the Report ***

*Complaints Register is available of Latanajury.

Phone |

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Abetiarized Signuous L.C.Connues Mank (Environmental Sciential

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CIN No. ∯U74210TG1999₱TC032358

4" Floor, "AMITY VILLE", 12-13-1270/71/73, St Ann's Read, Tamaka,

Secunderabad - 800017, Tolangana, India



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

Name & Address of the Customer: MA. ISW Steet | jouised

Fest Report Na. : 118 (17202 (7WS-0129))

Lab Cidde Ko 210920705

Project Name: Jujung Iron one Mines

Josep Date : 25.05,2021 : Letter Dayard (5.05.202)

Year Byf

Date of Receipt 1: 15,05,2021

Sample Description: Surface Water Sample

Location of Northpling: Kaleurponi Northsh

Date of Registration

15.03-2-21

Quantity : I No. \$5.0 Les Sample 1 No. x 500 ml Sample (Meals)

Date of commencement of testing

(505.242)

I No. 4 S00 ml Wide mouth Glass boule for O&G 1 No. a 250 oil Sample Pre Streetood Builde For Micro-

Date of completion of testing

DL05.0021 I-restrict to-

Packing Test Required

Date of Sampling: 19,05 2021

: Plastic Hottles : As green below

Nample condition at record

Sample tested as received

Sampling Details

Sampling Method/Procedure: 18 3025 Par. 1

General Froirgament conditions: ak .

Page No. For F.

TEST REMUCES.

Я. Чи.	Test Parameter	Units	Test Method	Result	Limits the Steeren Water Standards
L	Colour	Hazen Chris, Max	15 3/025 (Pan-4)	10	Jun
2	SH	8	18 3/03 (Pan-11)	6.71	5,5 10 8,5
3	Total Dropings Solids	mgl, Mass	IS 3025 (Part 16)	138	1500
ů,	CHeride (2-C)	high, Max	18 3028 (Pan-32)	N-5	300
5	con (asize)	mg/l, Mos	APHA 23° Ldu on 2017	0.30	Sii
ň.	Sulphaes (as SO ₁)	mg/l, Max.	18 3/25 (Part-24)	20	406
7	Fluitide (as F)	mg/l, Mae.	4500-F D; APITA 20 ⁴⁰ Islamon 2007	0.12	1.5
Б.,	Nicroles (as NO _O	mg/l, Max	45:0-NOB UV Spectrophotometric Screening Medical	93	30
'n	Coppet (os Un)	mg/l, Max	APIA 23 ^{et} Edition 2017	40.02	1.5
ış,	Selemum (as Sej	mg/l, Max	APHA 20° Latrior 20.7	<0.01	0.05
i.	/ notas /n)	mg/I Afex	2011 H of APRA 23 ⁴¹ (dution 2017	D.02	14
12.	Cadminim (as Cd)	mg/I Max.	2110 0 of APHA 23° Tator 2017	⊴N.003	40
11.	Load (se Ph)	mg/1 Max.	3] (1 U of APHA 23° Edom: 2017	<ili< td=""><td>6,1</td></ili<>	6,1
14	Anienic (as As)	mg/I Mas	3114 C of APHA 23 ³ Educe 2017	~0.01	92
В.	Cyanice (as CN)	mp/I Max	490 CN F, Consimetral Method, APHA 23 ^{rt} Edition 2017	<11.02	0.05
lú,	Change (as C-**)	mg/I Mzs.	31.0 tt at A191A 23° by one 2017	< ft.02	0.05
12	Amon's Deitrigency (65 MBAS)	my Max	Annex, K of 15 13243	vici	I
н.	Phenolic Compounds (as Call-OH)	mg/ Max	IS 3025 (Part-43)	±0.0€)	0,995
ni,	Bourge Ust	mgd	IS J925 (Pan-44)	J	3
20.	Dissolved Oxygen (25 Oy)	mg/l, Min	IS 1025 (Pag-48)	53	4
21.	Old & Grouse	mg/l, Max	18 3025 (Pan-39)	. <i< td=""><td>0,1</td></i<>	0,1
22	Total Celifone	(mps/100ml),842s.	LS 1622	90_	\$186

Interpretation of results: Nil, Deviation from xxt method. Nil

*** End of the Report ***

"Complaints Regislating available of Laboratory

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Ema I ிரிந்திக்காலிகள், com, info@bsenvitech.com Website : www.bsenvitech.com

CIN No. #U74210TG 1998PTC032358

Authorized Signatory

(G Chanter Steal) |

Environmental Schmityl



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

TEST REPORT

Nativ & Address of the Customer: M's, ASW Steel Limited

Test Begand No. 2 BSTT 202 (74 5-0129).

Lab Code No.

Project Nume: Jujung Iron ore Muses

Proper Balle : 2545,3(2) Your Bell . Letter Dated 15,05,362 (

Nample Ocsemption: Surface Water Sample Ometity : I Norsely Line Sample Date of Receipt 11,105,2021

No. 8 500 ml Sample (Motals)

Dete of Registration 15,05,2021 Date of caratternisment of testing 15,05,2071

1 No. x 200 ml Wide mouth Olaw bonte for OASS 1 No. a, 250 not Sample Pre Steriffood Battle Für Mittin.

24,05,2021 Date of completion of testing.

l'ecking : Plastic Buttley Test Required a Asigneri polaw

Date of Sampling: 10.45,2021

Location of Sampling: Jalpa Vadi

Sample condition at receipt Sample testral as received.

Sampling Details

Sampling Method/Procedure: IS 2025 Part 1

General kasarnement canditions: ok ...

Page No. 1 or 1

Lound ak

DISTRESULIS

S No.	Test Parameter	l'aib	Test Method	Resal	Limits for Stream Water Standards	
1.	Coloui	Hazen Jices Max	IS 2025 (Pan-4)	10	700	
2,	pFF		15 1025 (P.nt-11)	0.66	65 1045	
٦.	Total (Descived Solics	mg/LMgs	(\$ 3023 (Pan-10)	182	150)	
a	Chinode (as Ci)	mg/I, Max	15 JF25 (Pan-22)	15	600)	
3,	Iran (as he)	mg/LM35	31.1 E of APHA 25 rd Edition 2012	0.27	90	
ů,	Sulphases (in SC)()	mgA, Max.	IS 4023 (Pan-24)	12	4171	
7.:	Fluctude (av F)	mg/L Max	4500-ED APIJA 23* tienion 2017	0,14	.5	
R	Nitrates (as KO ₁)	crg I. Mas	1500-905-0 EV Spalterphotometric Screening Mallard	LU	Je.	
9.	Copper (as Cu)	സ്ഥ്യ Maa	3011 Blad API (4.23°) Johan 2017	40,0\$	Le	
W.	Selection (is Se)	mg/l, Mas	121418-4		905	
H,	Zinc (18 70)	ingl, Mas	3 11 H of APIIA 23 ^a Edition 2017	0.02	15	
ı,	Cader um (as Cit)	mg/l, Mas	V 11 B W APIDA 21'S Edition 3017	<0.003	خاليا	
1.	Kerel (as Ph)	mg/l, Mas	2011 Blief APHA 21 rd Edition 2017	40,01	Q.I	
4.	Andriu (as As)	mg/l, Max	J114 CHar APIA 21 ² I ditar 2007	<0.01	0.2	
٠.	Cyamda (as CN)	nigit, Max	4500 CNT, Calairmeiro Method, APITA 23 rd Edition 2017	<0.02	rjik.	
le.	Chromium (as Cr ²⁶)	mg/LMan	3111 % of APHA 21 rd Februar 2017	<u.412< td=""><td>CBS</td></u.412<>	CBS	
12	Americ Delegans (av MSAS)	mg/, Max	Annex, K of 1S 12248	-:0.1	ı	
18.	Phenolic Compounds (88 Calli OB)	mg/ Max	IS 1025 (Part-13)	-0.064	11,315	
ly.	HOCOS Un	mg/l	(S. 1025 (Pag 44)		3	
20.	Distribud Orygen (as O ₂)	ing I. Min	15-1025 (Pan-18)	52	4	
21,	Oil & Greek	лад Мах	IS 1025 (Pset-19)	41	3.1	
22	Total Colinem	(mpn/100m J.Man.	US 1522	.90	5000	

Interpretation of results 20 . Devemon from test method Nil

Mr. And of the Report

"Complaints Registor is available at Laboratory

4" Honr, 'AMITY VILLE', 12-13 1270/71/73, St. Ann's Road, Jamaka, Securidorabad - 500017, Telangaria, India

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HOBL

Auditudeed Signatury if C. Copyridea Moult i Environmental Scientist

Wubsite (www.bsenvitech.com

CIN No. 3 J74210TG1999PTC032358

WASTE WATER QUALITY REPORT

MAY - 2021



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

TEST REPORT

Name & Address of the Castamer: M/s. JSW Steel Limited

Test Report No. : BSET/2021/WW-01289

Lab Code No : 210921105

Project Name: Jajung Iron ore Mines

Isane Date : 25.05 2021

Your Ref.

: Letter Dated 15,05,2021

Date of Receipt : 15 05 2021

Qty

Packing

: I No. x 2.0 Ltrs Sample

Date of Registration

15 05:2021

Sample Description: Waste Water Sample

1 No. x 500 ml Sample (Metals)

Date of commencement of testing

15.05.2021

I No x 250 ml Sample (Microbiology)

24,95,2021 Date of completion of testing

: Plastic Boule & Pre-Stevilized Boule

Sample condition at receipt

Found ok

Test Required : As given below

Sample tested as received

Sampling Details

Sampling Method/Procedure: IS 3025 Part 1

Date of Sampling: 10 (15.2021) Location of Sampling: STP Inlex Water

General Environment conditions: Ok-Page Not Lof L

TEST RESULTS

S. No	Tosi Parameters	Units	Test Method	Result	General Standards for discharge of Environment pollutants G.S.N. 422(E)-1993
1	ηΠ	766	IS:3025- Part-11	7.32	55-90
2	Oil & Greate	nigil	IS.3025- Part-39	16	10
3	Total Suspended Solids	mg/l	IS:3025 - Part-17	242	100
4	Total Dissolved Solids/ği105°C	nig/l	15:3025 - Par:-16	1620	2100
5	BOD for 3days at 27°C	mg/l	IS:3025 - Part-44	310	30
ń	CUD	mg/l	15:3025 - Part-58	760	250

End of the Report

Authorized Signatury (G.Chaedra Meuli) Environmental Scientist

*Complaints Register is available at Laboratory

WATER FLOW RATE REPORT

MAY - 2021



Recognized by MoEF & CC, Gol: 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

8.No	Location	Flow rate (Velocity) in Meter/Second
1,5	Baitarani River	2.162
2.	Suna Nadi	1.056
3,	Kakarpani Nallah	0.418
4,	Jalpa Nadi	0.877

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

horised Signatory

"Compliants Register's available at Laboratory."

Website : www.hsenvitech.com CIN No. 1074210TG1999PTC03235B

GROUND WATER LEVEL REPORT

JUNE - 2021



Recognized by MoEF & CC, Gol: 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	11.26		
5.	Dug Well Jaribahal Village	4,02		
6.	Dug Well BIL Siding	4.91		

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

Authorised Signatory

"Complaints Register is available at Laboratory.

Email : lab@bsenviech.com, info@bsenvitech.com Website : www.hsenvitech.com

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

SURFACE WATER QUALITY REPORT

JUNE - 2021



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

TEST REPORT

Name & Address of the Customer : Mts. JSW Steel Lamited

Test Report No.: USF 1/2021/WS/01/09

Lab Code No 210878108 Issue Date : 17.06.2021

Project Name: Jajang Iron ore Mines

Your Ref. : Fatter Dated H9 H6 2021

Sample Deser Iption: Surface Water Sample

Date of Receipt 1: 09 08 2021

: I No. x50 ulrs bample

t As given below

Lucarien of Sampling: Bacterini Rever Eigserbare

Date of Registration

I No. a 500 ml Simple (Mrtals) 1 No. a 500 ml Wide mouth Glass bottle for DASG.

99.06,2021 Date of commencement of testing Date of completion of testing [6/16/2021

1 No. v 250 ml Sample Pre Stant 2ad Boule For Micro. Packing a Plastic Buildy. Test Required

Sample condition at receipt Found ok

Sample tested as received

Date of Sanipling: U4.06.2021

Sampling Details

Sampling Method/Procedure: 15 V/25 Port 1

Coneral Environment conditions: ak ...

Page No. 1 of 1

(8),116,2021

S. No.	Test Parameter	Itaita	Test Method	Result	Limits for Stream Water Standards
1.	Lokur	Basen Unios, Mex.	IS 3025 (Part-4)	5	100
2.	рН		(S-1025 (Part-L1)	6,13	h Shark S
).	Total Disso sed Solids	mg/t. Max.	15 3025 (Pan-L6)	112	1509
a.	Chloride (as Ch	ng I, Max.	IS 3025 (Pen-32)	πл	609
3.	front (as Re)	noo I, Max	API API	0.34	50
ė.	Sulphsus (as SO ₄)	mg'l, Max,	IS 3025 (Part-24)	22	400
1,	Fluce (do) see F1	mg/1, Max	4.589-F D; 4.914-23 f 1.5696-2017	0.88	1.5
х.	Nitratos (se NO ₁)	mg1,Max	4500-NOy-II UV Spertrophotometric Actoching Method	03	50
9	Copper las Cut	mg", Max.	MET Brist APHA 25 rd Edisons 2017	<0.62	1.5
III.	Selection (see Su)	mg/l, Mas	3104 H of APHA 231 Ections 2017	<0.01	0.05
ц,	Zinc (35 Zn)	nig'l, Max.	APITA BIST APITA 23 rd Edictor 70: 2	0.03	12
12.	Cadmom (as cd)	mg'l. Max.	31 (1 U o) APHA 25 ^{oc} Edeim, 2017	49.M3	50.1
13	Lead (as Pb)	mp'l. Max.	APHA 25 rd Edition 2017	<0.01	0.
14	Arsan ir (ia. 4s)	mg"l, Mass,	3104 C of ArtiA 251 Litting 2077	<0.0)	0.7
15	Cyande (20CN)	mg"i, relay,	4500 CM F. Colorinieu c Method, A 40A 23 ^a Edition 5017	-0.02	0.05
16	Caramigm (as Cr ⁹)	mg/l. Max.	31 (18 of APHA 23' Edition 2017	<0.02	0.05
12.	Anionic Ocietycos (as MBAS)	mg/v.Max	Annex Kiol 18, 0248	40.1	1
18.	Pretche Comsounds (as Folloff)	mg'l, Mec.	IS 3025 (Part-43)	বা.৪৮	0.001
19	BOD las Oel	mpl	IS 3025 (Pan=14)	- 1	3
20.	Dissolved Ologen (as O ₂)	mgl. Ma	IS 0025 (Pan-M)	5.2	
21.	Oil & Greace	mg/l, Max	IS 3025 (Part-3 rd)	*1	0
32	Tale! Coliform	Imps/100ml/ _c May.	15:1622	220	5000

Biompretation of results. No. Deviation from test method: Nil.

G.Chandra Moule J evironmental Scientist

NAME End of the Report

*Completiots Register is available at Laboratory.

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ിab@bsenvitedh.com, info@bsenvitech.com.

Wabsite www.bsenvitech.com CIN No. #U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Contempt: M/s, JSW Steel Limited

Test Report No. : BSE1/2021/WS-II174II

Lab Code No. 1: 210875086 Issue Date 117,05,2021

Project Name: Jajang Iran ore Mines

Your Ref. : Detter Detect 0x.06/202

Pate of Receipt (104.05.2021)

Sample Description: Surface Woler Sample all Maja 501 ets Sample Quentity

Location of Sampling: Buitarant River Bownstream

I No. x 500 ml Sample (Metals)

Date of Registration <93.06.2021 99 H6.3021

I No. + 500 ml Wide mouth Glass hittle Kn O&G 1 No. x 250 ml Sample Pre Sterilized Bottle For MicroDate of commencement of testing Date of completion of Learing 16,06,2021

Packing : Plastic Bettles Test Required : As given below

Sample condition at receipt Sample sessed as received

Sampling Details

Date of Sampling: 04.06.2021

Sampling Mathed/Precedurer IS 2025 Part I.

General Englement conditions of ,

Page No. Lof J.

Found of

TEST RESULTS

S. Na.	Test Parameter	Uniss	Trai Method	Heruit	Limits for Nircam Water Standards
1,	Tokur	Hazen Units, Max	ES 9725 (Part-4)	III-	71HI
2.	pll		J5 3025 (Pert-11)	÷.29	65168.5
3.	Treat Dissolved Solids	mg/l. Mas	45 3025 (Pan 16)	136	1,500
4	Chleriae (as Cl)	mg/l, Max.	ES 1923 (Pen-12)	12	AIHi
5,	con (as se)	mg/l. Max.	APEA 21" Edinac 2011	0.35	SII
ė,	Sulphites (as SO ₄)	mg/t, Mas	15 PR25 (Pen-24)	30	4Mi
20	Flurinda (as F)	mg/1, Mass.	4500.6 fb, APHA 23 ^Y Edictor 2017	0.23	1.5
н.	Number (as NO ₀)	mg/l, Max	a\$60-50590 TV Spectrophotometric Screening Method	[4	SU
9	Copper (as Cu)	ing'l, Mas	ATEA 21 th Edition 2017	40.05	1.5
III	Sclenium (ax Set	m _e /I, Mus	3114 B of APHA 25° Eletron 2012	<0.01	0.05
11.	Zinc (as Zn)	ng/l, Max	51 J B of AfticA 21" Islamon 2017	0.04	15
13.	Cadmium (as Cd)	mg/I, Max	2111 B of API A 2011 (dition 2017)	<0.003	*A) !
13.	Load (as Po)	ng/I, Mex	STOLE of APP A 28 th Edition 2017	<0.1	01
ļ¢.	Aremic (as As)	mg/l, Max.	2114 C of APRA 28 ¹² Edition 2017	•1k01	0.2
15	Cyanide (ax CN)	mg/I, Max	4500 CN E, Colorimortic Method, APIIA 23 th Fabrica 3017	-3):04	3715
Ph.	Cheemium (as Cr ²⁶)	mg/I, Mes	MILLE of APHA 23" Edition 2017	0.05	0.05
12.	Amenic Datargetts (as MBAS)	mgd, Max	Annex, Klof IS 13348	વા.1	1
14	Pleanie Compounds (as Cella(A')	ng/l. Max.	IS 2025 (Pan #3)	<0.001	0.005
14.	BOD (as Us)	mg'l	15 3025 (Pan-44)	. 5	
20.	Dissulved Chaygon Cas Dy	mg/l. Min	15 3023 (Part-3K)	4.8	+
21	Oil & Green	mg/l, Max	IS 3025 (Part-39)	41	01
22	Taial Celiform	(mpr/180ml) Max	IS-1622	JH 280	5000

reprotation of results. Not. Deviation from realmethod: Not

hed. E.of of the Report.

Authorized Signmory (G.Chandra Mouli) Knyironmental Selental

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CIN No. # J74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Costomer: Mrs. JSW Speci Limited

Fers Report No. : BSE0/3021/WS/01741

Lab Code No : 210679906 Issue Date : 17.06,2021

Project Name: Jujung Iron are Mines

Your Ref : 1 ezer Dated #9.06 2021

Sample Deteription: Surface Water Sample Quantity : 1 No. x5.0 Lits Sample Date of Riccelpt :: 0.9 0e,2021

T No. x 500 ml Rample (Metals)

Date of Registration 04 05 2021

Date of Registration (Protein 04 05 2021)

4 No. x 500 oil Wide month Glass heatle for O&C

Date of commission and desting 09.96.2021

Date of completion of testing 16.66.2021

1 Me. x 230 ml Sample Pre Ster fixed Blottle Fut Micro : Place ⊕ Bordes

Sample conduction at receipt Foundate.

Sample setted as received

Test Required

Packing

: As given helms

Sampling Details
Sampling Method-Procedure: 18 3025 Page

Page No. 1 of I

Date of Sampling: 04.06.2011 Location of Sampling: Suna Nadi Sampling Method-Procedure: 18 3025 Part 1 General Environment candidates at

TEST RESULTS.

5. Ne.	Test Paradioter	Units.	Test Medical	Result	Lindes for Sercem Water Standards
4,	Color	States Units, Max.	IS 1023 (Part-4)	10	390
2.	μH		15 3025 (PsH-11)	6.84	45 to 45
34	Petal Disselved Solids	mg/l. Max.	15 7025 (Pan 16)	142	1500
1	Chlorde (se Cl)	mg/l, Max	LS 3025 (Pan-12)	9.5	600
5,	Irms (as Fe)	mg/l, Mex.	911" Blof APHA 23" Edition 2017	9.21	40
ŕ	Sulphates (as SOc)	mg/L/Max.	IS 3925 (Pen-24)	2.7	400
Y.	Flunnde (us F)	mg/I, Max.	4500-j" D; A2/8A 23 rd Edition 2017	0.14	1.5
9.	Nilswes (25 NO ₅)	mg/L Max	4500-500-49 UV Specirophotometric Scronning Method	#4	গ
9.	Copper (as Cu)	mg/I, Max	301 B of APPA 23 ^d Injinen 2017	-00.02	1.5
10.	Selenium (as Se)	mg/I Max.	3/14H of AZNA 25 th Edzian 2017	×0.01	1105
E,	Zano (as. Vm)	mg/LMzx.	MH K of APEA 25 th I-dition 2017	9.04	.5
17	Calinuar (& Cil)	mg/I, Max.	API-A 27th Edition 2017	~0.903	-01
11	Load las Poi	mg/I, Max	3111 B of APPA 23 st Edition 2017	×0.01	0.1
14	Ansonic (as 59)	iFipl. Max	3114 C oc APHA 23 th Fallium 2017	40.01	n 2
13	Cyanide (as CPI)	mg/I Mez	4500 CN F, Calormoric Methol, APITA 23° E.±too 2017	<0.02	0.05
ነሳ.	Chromost (a Cr*)	mg/I, Mex.	3101 B 65 A248A 23° Edinon 2011	*0 02	0.05
11.	Animus Detergests for MBA5)	mg/l, Max	Annex, K of LS 13248	90.1	T I
l:.	Phenotic Compounds (as CgH)OE(mgd, Mas	15: 3925 (Pen-45)	~n.eq i	11.905
12	BHD76 O()	mg/l	IS 1025 (Part-44)	. 3	1
20.	Dissolved Cogger (ps (g)	mg'l. Min	18 3025 (Pan-JX)	5.4	1
21.	Oil & Greate	ing/ . Max	15 3025 (Part-19)	<1	li 1
12	Tetal Californi	Impp/100ml),64ax	IS:1622	70	5000

Truemreation of results. Nil, Deviation from est method: Nil.

*** End of the Report ***

*Complaints Register is available at Laboratory C'BAY

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Empil (lab@bsorwitech.com, info@bsenvitech.com)
Website (www.bsenvitech.com)

Website www.bsenvilech.com CIN No. : U74210TG1999PTC032358

Anthorized Signatury
(C) Chandra Mesh I
Environmental Scientisi



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

TEST REPORT

Name & Address of the Customer : M/s. JSW Steel Limited

Test Regions No. : BSPT, 2021/WS-01742

Lab Code No. 1: 2011N15N06 Lisue Date : 1706,2021

Project Name: Jajang Jeun see Minus

Your Ref : Letter Dated (% 05/2021)

Sample Description: Surface Water Sample : I Note Set plus Sample Date of Receipt : 09 06.2921

1 No. x 500 m. Sample (Metals)

Date of Acgistration 0706,2021 19 (16.2021 Date of commencement of testing

1. While 500 = 1 Windom criph Glass backs for Co2C. 1 No. x 250 ml Sample Pre Storifized Bettle For Mittin Date of completion of seaming 16 06.2021

: Plast o Boules

Sample candition of receipt Sample trated as received

General Environment conditions; ok

Packing Test Required a As given bolow

Sampling Details
Sampling Method-Procedure: IS 1025 Par 1

Page No. of I

Lound ok

Date of Sampling: 04,06 2021 Location of Sampling: Kakargami Nellah

TEST RESULTS

8. No	Test Pargmiter	Units	Test Method	Result	Limits for Stream Water Scandards
I,	Calme	Hazen Units, Max.	IS 31(25 / Part-4)	10	V00
2	Hc	15	IS 3025 (Part-11)	6.68	6.5 to 8.5
1	Lotal Dissulved Schilds	mgt, Mac.	IS 1025 (Pan-16)	124	1500
-l.	Chloride (as CI)	mg/l, Max.	15/3025 (Port 32)	4. D	600
5	[rom (79 f e)	mg/l, Max	5111 B of APITA 23 ¹⁷ Edition 2017	0.2k	S
e.	Sulphares Tax SOLI	ing'l, Max	IS 3025 (Iber-24)	34	400
<i>J</i> .	Hounde (as F)	mg/l. Max.	45H45 D, A7HA 20 rd 4.5mor 20-7	#17	1.5
k,	Nictures (us (NO ₂)	mg/l, ofex	4300 NO ₁ B UV Specinophotometric Servicing Medical	LV	50
9.	L'oppet (es Cu)	mg/l, Max.	STILLBLOC APITA 20 rd Februar 2015	40.02	15
u.	Sevenium (as Se)	mg/l. Max	3114 B of APITA 23 th Edition 2013	46.01	8005
ij.	Zinc las Zni	mg I, Max.	311" H. of A 211A 23" Editine 20-7	0. 03	15
2.	Cadinium (24 (d)	nig I, Max.	Spir floor APHA 27 rd Edmon 2017	<0.003	•0.1
٦.	Lazari (say Phy)	mp I, Max.	31)1 B of APHA 237 Editor, 2017	40.1	0:
:4	Arsent, (as As)	mg/l, Max	3114 C. of APIA 20 th 1 diftion 2017	4001	0.2
۲.	Cyanide (se CN)	mgrl, Max.	4500 CN L. Colorment Method, APITA 21 th Educer 2017	આ01	405
'n.	Chremum (as Cr ²⁸)	mgl. Max	3111 PL of APHA 23 th Edition 3017	< 0.02	4u)
17.	Americ Deitrgenis (as MEAS)	mg'l, Max	Annex, K of 18 19249	<#####################################	1
! K	Phonoini Compounds (as Callyl H)	ing I, Max	18 (0025 (Pont-41)	<0.401	0.005
9	BOD (34 O ₂)	mμ	18,0025 (run 44)	4	1
211	Dissolved Oxygen (us Gyl	mg'l, Min	15 3025 (Pan-35)	5.2	4
21.	Oil & Grosse	⊐gd, Mas	18 1025 (Pmi-39)	< h	- Hi i
22	Tetal Celiforn	(mpn. 100mil) Max.	15:162) SE	110	5000

Interpretation of results. Nil, Dryot on from and method, Nil

... Eed at the Report

*Complaints Register is available at Laboratory

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Telangana, India

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uthorized Signatury C.Chandra Monh avironmental Scientist

Ernail lab@bsenvitech.com. info@bsenvitech.com Website I www.bsenvitech.com

CIN No. #U74210TG1999PTC032358



Quantity

Pecking.

Test Required

Date of Sampling: 04.06.2071

Location of Sampling: Julya Nedl

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Customer : M/s, JSW Steet Limited

 1 No. x5.0 Hrs Sample 1 No. x 590 int Sample (Mouds)

a Plastic Buttles

1 As given balow

1 No. ix 500 ml Wide mouth tiltass hande for HALG

1 No. x 350 ml Sample Pre Sterilized Boulo For Micro

Project Name: Jajung Iron ore Mines

Sample Description: Surface Water Sample

Test Report No.: BSET@021/WS-01/4/3

Lab Code No : 2106/5705 Issue Cate : 17/06/2021

Your Ref - a Loser Dated NV 06 2021

Date of Recoipt : 89 05 2021

Date of Registration 02.05.2021

Date of commencement of partial 05.05.2021

Date of completion of testing 16.05.202

Sample condition at receipt 1-husel nk

Sample tested as accelved

Sampling Details

Sampling Method/Propedure: 19 3025 Part 1

Control Environment conditions: ok

Page Ne. 1 of 1

TEST RESULTS

S. No.	Test Parameter	Doles	Test Method	Result	Leuris for Sarcana Water Standards
J,	Colon	Hazen Origo Max.	IS 3025 (Pan-4)	III	RIO
Ž,	Ilc		IS 3025 (Part-11)	6.75	A 5 to 2 5
1,	Tetal Dusalve Schole	nigil. Mar	15, 2025 (Part-16)	104	1300
4,	Chilorope (no Ci)	mgil, Max	JS 3025 (Pan J2)	12	600
5	ann (ag l'a)	mg/l. Max) (A of APIIIA 23 rd Editors 2017	0.25	.10
6	Sulphates (as SU ₄)	mgil, Max.	IS 5025 (Part-24)	20	400
7.	Fluorride (as ₹)	mg/l, Max.	a500-5 ft. APITA 30 ^M Edition 2011	0.16	15
N	Nurales (as NO ₃)	mg/l. Max	45(0-NO ₀ -5) HV Speakinghotimetric Screening Method	9.5	șo.
Ψ.	Copporiças Cui	mg/l, Max.	APHA 23° Edition 2017	<#.02	15
10	Sclenium (as Se)	mg'l, Max.	31'0 B of APHA 23 ⁴ Filinen 2017	<0.01	nos
11.	Zinc (as Zu)	mg/LMax	3111 B of APBA 231 Edition 2017	0.03	12
12.	Cadistan (as Cd)	mgil, Maa	3110 B of A2HA 23 ⁴ Edition 2017	**************************************	*42.1
13.	Lead (ds Pb)	mg/I, Max.	1111 B of APBA 23 rd Edition 2017	43 6. 01	01
ы,	Araunic (as As)	mg/I Max.	Spra Chaff APHA 23° Edition 7017	<0.01	0.2
15.	Cyunida Ias CN:	mg/I Max	4500 CN E. Colommercie Method, APHA 23 ⁸ Faktion 2017	-31,112	8005
lń.	Chromium (as 41) ¹³)	mgd, Maa	3111 B of A2BA 25" Edmon 2017	-10.04	005
17,	Arrance Detergents (or MEAS)	mg/ , Max	Annes, Klof IS 13248	<0.1	1
kl	Phonelic Compounds (28 Cylly04-)	mg/L Max.	IS 2022 (Pan-43)	- 4 LIN1	D CHS
10.	BOD (as Oy)	mg/l	IS 1005 (Part-44)	1	1
20.	Dissaland Oxygon (at U-)	mg/l, Min	IS 2025 (Pan-3K)	5.4	4
21,	OrteOrase	mg·l, Max	IS 3025 (Pars 39)	<1	61
22	Petal C. Ciliotii	(mpr/ 00ml);Max	S-1622	60	5400

Interpretation of results. Not. Deviation from test method: Nill

*** End of the Report ***

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G.Chandra Mouli)

Environmental Scientist

Email : flab@bsenvilech.com, info@bsenvilech.com Wabsite : www.bsenvitech.com

Wabsite I www.bsenvitech.com CIN No I:: U74Z10TG1999PTC032358

WATER FLOW RATE REPORT

JUNE - 2021



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

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

"Complaints Register is available at Laboratory.

Website | www.bsenvitech.com

CIN No U74210TG1999PTC032358

GROUND WATER LEVEL REPORT

JULY - 2021



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

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
1,0	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 Bit Siding	4.06

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

Authorised Signatory

Email : lab@bsenvitech.com, info@bsenvitech.com Website : www.bscnvitech.com

Website : www.bschvitech.com CIN No. :: U7421tiTG1999PTC032358

SURFACE RUN OFF ANALYSIS REPORT

JULY - 2021



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

TEST REPORT

Project Name. Injung from my Mines. Sample Description: Surface Hawaiif Waser Samply

Quantity

Nigh 940 im Sample

Location of Sampling, Weter Check Dam near Jajang Rulway Stiffing

Name & Address of the Centumer : Mrs. 38% Steet Limited

1 No. 5 500 ml Sample - Meials)

1 No. 12 500 of Wate mouth (0.25- No.11: De O&G 1 No. 3 250 of Sample Per Surfless Bettle Fer Moure

Packing Brat Regulred

: Physic Books As given below Brown Djose 07.04.2021

Lab Cade No. 210747003

Visual Red 11 ener (3med 25, 07, 202)

Less Repair No. 1 [18]-17202 (1975-1745).

Res of Receipt 1: 25,07,2021

Design of Registration 29/02/5021

29.02.2021 Date of commencement of declary

there of corepletion of testing 06.04.2021 Sample condition or receipt ound of

Sample leated as received

Sampling Details Blate of Sampling: 26 ft* 2021

Sampling Merka@Procedure, 18 3025 Carl 1. Ceneral Kreirpeinear conditions: on ...

Page No. 1 of 1

S. 94.	Test Paradictes	Voite	Test Method	Résult	Limits for Stream Water Standards
ly i	Colcus	Hager Hrus, Was	- 6 300 5 (Pan-4)	14	HK:
4	.90	**	% (3.% (ge-II)	6.69	85 to 3,5
1	Tend Suspended validy	mgd	IS 1005 (Part) (7	72	1944
4.	Fotal Dronlead Sunda	mg I, Was	5 91/5 (Pan-In)	Mr	1561
5.	Chande (as PI)	mg I, 6-Les	5.7025 (Pap. 32)	ıń	9HB
4	Political No.	nert. Max	10 1 Hz/ APHA 2)*1 Jesup 2511	0.24	11.
36	Sulphones (acold)	mg I, Marc	(\$ 7025 (Part-24)	22	410
ĸ	Flamide (in F)	mg I, Mas	4900 FQ; A 10A 237 Fd not 2017	0.19	1.5
V.	Millites as NO.	mp.1, 1433	4500 NOV III ON Second physometric Screening Method	15	*
10,	Depper fas (fa)	mpt. Mas	111111 gt A211A 27" Edges 2017	0.02	1,5
11.	Manganose as Mr.	ng-l	A11 (1) of A111A 23 st ralition 2017	4.13	C##/
12	Selection (as Se)	mg/, Max	1114 Plint APRA 21 th Edwon 2017	< 16.000	0,03
D.	ζας (φ. Zo)	mgd, Stan	3 11 ls nt API (A 23" Edenic 2513	⊕. D4	15
14.	Calmin (as Cil)	mgd, Max	3111 B of A31-A 311 Edgs in 2013	 Zucha N 	· · · (,).
15.	Sand (n-Ph)	mg/l, Mas	\$111 B of 445-4-23" Cilrain 2014	o∯.DI	501
lo.	Americ Jan Aki	nysi. Mas	31 N C of APEA 235 Edward 2012	-4.PI	u's
C.	Cyarnacias (PS)	mark Man	15GUCN L. Coke with a Victoria APISA 217 Edition 2017	<01.02	0.05
13.	Chromograps CON	mal Mas	A 20 B of A 20 A 23 Section 2017	*/1,4%	0.05
14.	Amonic Octoments to 2004AS)	ingel, Max	Artes, No. 5 (02)8	ч Ш1	L
ш	Photols, Cangounds (es C-H-OE)	mg/L Mas,	5 (c24 principly)	49.003	шы
и.	con	m;"I	18,1025 Part 3ti	12	143
22	900 (as Q4	mg*l	.N 5026 (Pan 44)	5.	1
23.	Historied Osygen (4s U.)	mpt, Min	15/3025 (Pap. 15)	51	۵
4.	Oil & Gress:	mpt, Max	(S. 6023 (Pan. 19)	< h	4.
35	Curat Cont Ferm	(mpo Hitte LyMax)	(5.1622	C//0	5000

Interpretation of receive Nill, Deviation from two method: N.I.

amorized Signatury (Chandra Maull) Enstronmental Scientist

Tomplaints Register in Waterple at Laboratod COB

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Website (www.bsenvitech.com

CIN No #U74210TG1909PTC032358

SURFACE WATER
QUALITY REPORT

JULY - 2021



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

Project Name: Jajang Francis Missa Sample Description: Surface Wood Sample Quantity : 1 No. 25/0 Line Sample

: 1 No. s § 0 Lee Sample - 1 No. a Nikhmi Sample (Merais)

Name & Address of the Castonier: Mrs. ISV: Steat Limited

LiNes in Viti mi Wing mouth Glass notice for Geld in No. 4 791 mi Sample Pre Ster lived Booke For Muse.

Packing : Play y desire First Required : As given by not Test Repert No., HSI 177031 WS-01880

Lab Code Nn 700KA0KO Inner Blace 15,04,2021

Year Bet 1 1 Long Hard 05 27 (NO)

tink of Receipt 1 05.07.2021

Date of Engineration 05.07.202:

Date of contractometer of resting 16.67.3021

Sample condition at receipt Fraud ok

Sample desired as neceived.

blace of completion of certifing

Sampling Details

Rate of Sampling: 12.47 7974

Augulian of Spending: Universal River & patream

Sumpling Mathiel/Procedure: IS 302* Part I

Seneral Luvirimanus, conditions: nh 🖫

Page No Lot L.

14 07 2021

TEST RESULTS

Nn Nn	Few Paramoter	Units	'Test Method	Result	Limits for Stream Water Wassdards
\mathbf{l}_{ij}	Colner	Hazen Jaile, Mac	15 Jul 25 (Pan 4)	5	300
Ž.	¢II	8	(5.3-23 (Part) 1)	6.71	4,5 (0.4.)
2	Finfal Sexpended Solub	m _é l	18 X025 (fg.n-12	26	1 34 1:
4.	Potal Desolved Solids	mg'l Mas	15 AES (Parts 1)	104	500
5.	Caturale (or Cl)	Ogʻl. Mas	15 (M25 Part-02)	9.0	าเข
5	(ron (as Fe)	rag't Mas	APHA 23 ² Edicara 2013	1121	10
2	Salphace (se SO ₁)	rig't Max,	(8.30257Pan-24)	46	₩Ĥ
1.	Fluotide (x+F)	mg/1 Max	450C+ D; APHA 23 ⁴ Edition 20, 7	0.17	1.5
"	Serates (as NO ₁)	mg-I, Mga	4500-Nit pils UV Space epitatiomagne Screening Method	4.5	su
ic.	Cupper Isa Cuj	mg/l, Max.	APHA 2 Nd Edmon 2017	ND.02	L3
u.	Mangage of as Mili	med	JITTH OF APHA 23 ¹² Edition 2017	< 4.02	SERV
12	Selenum (se še)	argat, Maza	3134 B of AP9A 20 ⁴ Educa A45	(株) (日	0,05
19).	Zimi tas 2ŋ)	mg, I, Max	211 (B) of APHA 23 ¹¹ -dittor 2017	4.02	15
IJ	Cudmins (is Cd)	nigit, May	APHA 2011 Ignor 1807	on 049	≏5,1
S.	Ceatigs Phi	mg I, Maz	715 (B. of APHA 73 st edition 2017	P#10	C.I
16.	America (sa As)	ing t, Max.	APHA 212 of APHA 212 of Steen 2013	≈#.0L	C,2
134	L'ystrukcias (N)	mga I. Maka	#MUCAL, Observer c McNoc, APIA 277 Edition 2017	≈8.02	ojis
L .	Phonon mays (> 2)	mp I, Man	9101 Bliof APRA 215 Edicad 2011	c4.02	0.01
ш	Aniumic Delengante par MRAS i	mg/l, Max	Antex A N A 1120a	नाम	I I
20	Phenotic Compounds to CAP OH)	ng l Maa	15 3025 (Parti-43)	<0.001	0.005
	con	ngri	18:3025 Pan 54	34	3029
2	[80]1 (35 O ₂)	mgt	15 3525 (Partida)	4	1
1.	Home well (trapped for Hy)	mpā, Sijp	(9 3009 (Part (8))	5.4	4
M.	Uil & Great	rg'l Mas	.5(3525 (2art-79)	41	61
25_	Logical (algume	(mgm/100ml) Mas	[8:1622]	C//	Shin

Interpretation of results: Not, Deviation from a stimefood: Nil.

Authorized Signatory
VG Chandra Meals |
Environmental Sciennic

"Complaints Register is purilable at Laboral de C'BAD

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CIN No 1.074210TG1999PTC032359



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

TEST REPORT

Project Name. Jujung Lean are Minus.

Sample Description: Surface: Awar Sample Quantity. : I So at 21 in Sample

I No a NO mi Sample i We also

Name & Address of the Costomer: MA, JSW Strel Limited

This is 100 ml Wide mouth Class house for CAG 1 No. 3 230 mt Sample Pro Star Good Datte For Micro

Packing Alagnic Bloodes hida given be du Teur Hemelined

Indus Date 118/02/00/1 Your Ruf : Labor Herri (15/07/2021) Dase of Receipt : 115,07,2021 Date of Registration 05/47/2021 16 07/2902 Pare of commencement of testing Date of completion of feeling 14 07 2020 Sample condition at receipt Fourthet

Sample wested as received

Lab Code Val-

Dass of Sampling: 02.87.2021 Location of Sampling: Bellevial River Dummatrons

Sampling Details
Sampling Method/Procedure: 18 102 s bar 1

Test Report Ve. : HS1 1/2071 WS-01941

210851907

General Estirenment conditions: uk., Page No. 1 or 1

TEST RESULTS

s Na.	Test Parameter	I min	Test Method	Hewill	Liming for Seregory Water Searcheds
I _e	Colour	Haran Long, Max.	14 MQ (Pan-4)	I+	700
/	ρЧ	9.	18 3015 (Parts) 11	4.62	67085
1 _	Local Supported Suitals	mg/	15 x02% 2am-17	м	744
4,	1.4al 3 sselved Solids	rig I, Mas	15 2025 (Part-11)	126	· vai
5,	Calenda (as C.)	righ, Max.	18 3025 (Pap-32)	15	166
5.	hor fas Fe;	mg I, Man	3111 aref Arth 22 rd Olkar 2012	Ú.12	40
2.	Culphanes (or Str.)	mp', Max	(8 7025 (Pan 74)	34	406
X.	Fuceide (as F)	nig I, Min	4302-1-10, APITA 23 ⁴ Edition 2013	0.21	1,5
v,	M Males last NU il	ng-J, Vəc	4500-NO,-II DV Spectropic function Screening Method	17	50
In.	Cupper (as Cir)	rigit, Vas	HTTS of APHA 23 st Edition 2017	×11.43	1,5
i.	Marganos ao Ma	mel	7111 9 nl A PHA 23 ² 13hon 2012	< 0.02	871
12.	Selimium (a. Se)	ing I. Vas	ATHA Built APHA 20" Edition 2012	<0,41	0.05
n	7 mc Ho 7m	my I Vac	Off Fe of APITA 23.4 Edition 2017	0.0+	1.5
11.	Cudmom (as Cd)	mg/LWAs	1111 H of 21113 25 ¹ Jdnog 2013	41,8111	₹0.1
18.	Could lab (P5)	ing I, Vas	Altha 23 Fedition 2017	√9 I	6.1
16,	Amenic - 35 A 51	ing I. Max.	1100 C at APRIA 25 C Educa (OL)	<0.01	6.3
G.	Cyanido (as CN)	ing l. Max	4 VO CN II. Catermant Majord, APITA 21 th India on 2012	<0.02	0.05
PI	(Tiermiem (& Co.))	mel Mas	9111 Bliof A PHA 22° Falciun 2012	aas	P.05
10,	Antonic Danzpenis (45 MHAS)	mgH. Max	Annex Kufth (1248	401	1
in.	Photolic Computation (as Calls/OH)	ing I Mas	IS 1025 (Pen-43)	<0.601	4,603
J.	10th	mgri	181/1025 - Part-58	44	7.
22	BOD (at Ca)	mg1	IS 1025 (Nec-44)	6	5
34.	Described Oxygen (as Ox	nja, Me	18 30025 (98%-78)	4.9	4
¿-I	(al & timese	mg/1 Mgs	IS 1025 (Parts 9)	81	61
35	Taul Coldon	reign Follow, Max.	IS:1622	CH 120	SHAI

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

Camplaints Feggler 16 Peggler absorborator C'BA

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Chandra Mosti J Environmental Scientist

Websile I www bservitech.com

CIN No. 1074210TG1999PTC032358



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

TEST REPORT

Propert Name: Japang Iron ore Muses

Sample Description: Surface Wash Sample : 1 Not \$37 Lin Sample

1 No. 4 500 mf Sample (Motals)

Name & Address of the Consumer : MA, JSW Steel Limited

1 No. 15 SOIL of Wide month Class hop or for O&G. 1 No. 4 250 tol Sample Pile Ster Good Hookle For Micro

l'erkeg · Plastic Donles

HAR give the ow From Required

Location of Sampling: Name Nadl Rock

Date of Sampling: 02.87.2821

Tem Report No. : 65417/2021/WS 0 482

Lab Cade No. 310951507 Harge Date . 15 01,2021

Year Ref. 11 court People 95 01 2031

Date of Receipt 105 07 252

Double 2021 Date of Repairation Date of commencement of teating 46,97,3971 Date of completion of resiling (4)(1) 2521 Namnie condeles au excelte bound of

Sumple tested as received

Sampling Details

Sampling Method/Procedure: IS 2025 Part I

General Environment conditions luk a

Page No. 1 of I

TEST RESULTS

S. No.	Feet Parametre	Fras	Fept Meshod	Peruli	Limits for Stream West Standards
I.	Lunu	Hazen Corr. Miles	18 JULY (Pan 4)	IU	300
4	рП		18 (m25 (mar-l t)	6,74	63 to 83
).	Total suspender Solids	n g-	18 3023- Part-17	42	-
1.	Total Ensected Solids	mg/I Mas	15 3023 (Part-10)	136	970
5	Chilorgie (ge 8.1)	myd, Mac	IS 7025 (Pan-32)	10.0	1920
6	horrow (fz)	mg-i, Mak	3.1 a 8 of A 8 8 9 20" Edikum 2017	●.18	6
7,	Sulphases (NSSN)	regit Mas	IS 3025 (Pan 31)	21	ក្សា
R.	Connide (av F)	mp/L Max.	4500 ± D; APITA 2 ^{pd} Latting 201 ±	0.16	LS
10	Similar (an N/Sq.	ng/ , Max	4506 NO; II : V Aportrophetonidae sureening Method	9.2	90
IP,	Cupper(as Cu)	mg/l(Mgs	APTIA 77" (dopen 201)	-=0.0Z	1,5
Ц	Matigarese as Ma	mpl	APITA 22° Edition 2017	< 0.42	STI
12.	Seloropa (av Sc)	mpt, Max.	5114 H. of 51940 217 Educa 214 F	-al.bi	414
15	Life his 201	mp , Was	10 to B of APHA 2 ¹⁰¹ Edition 2017	0.05	15
14,	Cadmium (as Citi	mp6, Mak.	A P114, 27 ¹² 1 dogs (2017)	o8.003	्रा ।
15.	Lead on Phy	ngi, Mji	Still Blot optio 22 th (Slitica 2017)	18,01	υı
IS,	Arsenic (as Art	and, Mar	A113 11 of A1144 27 ¹³ Edujos 2013	el.61	Va.
17,	Cyanale (as CN)	mpd, Max.	4900 CN L. Colomeric Market, APHA 23 ² 5docan 2017	-m.et	4.07
1-	Chroniannas (***)	ngt, Step	V 1- B of APSIA 21° Edition 2017	vulež.	it.M
r.	Anjonic Desorgenis (as MDAS)	mgd. Max	Aparel 8 of 18 19244	<0,j)
×.	Phenolic Company (as CC1951)	ngt, Max	(5 W25 (Kad-41)	50 BH	0,005
24.	cuis	nsel	19,7025 Pan 56	14	-
22	BETTE (BACO)	ngi	15 3025 (15:0-44)	,	3
21	Coss, Ford On open (a- Cy)	mg/t Min	18 3025 (Not 35)	5.5	4
24.	DIA Green	mgd, Mag	18 3025 (18m-5c)	61	0.1
25	Total Coldons	orpy (from LAPas)	IS 1622	TECH	ЭТРИТ

Interpretation of results: Nil, Desiation Item test method. Nil.

*Cumplaints Register in which all aboratory

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Authorized Signatury (C.Chandra Mouli) Envertumental Scientist

€mail

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Website #www.bsenvitech.com

CIN No #U74210TG1999PTC032358



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

TEST REPORT

Project Name: Jajang Iran are Meses sample Beserigions Surface Water Sample : No 55 0 the Sample Quantity

I No. 6 (100 m. Sample (Metals)

Name & Artifress of the Contentor 1 MA, JSW Steel Limited

1 No. 3, 500 ml Wints result (date hands for OWE I Nation 250 and Sample the Averthast Hambotter Migra-

Pathing : Plad of delites Test Regulred Auginor on nw

: 15,07,2071 Year Hef , Figure Dated 65 PROYET Pate of Receipt 190.57 212 Place of Registration 05.02.2021 Bate of communications at lowing 08.02.2071 Date of conspliction of testing 14.07.2021 Sample condition at reseign Lound of

Sample trained as received

Ipuse Date

Sampling Details

Date of Samplings (12717.2028) Location of Sampling: Kabarpasi Natiah

Sampling Method/Procedure: IS 107 \ Pro. I

Petr Report No. : BSPT-2001-WS-010k4 Ust Code No. 1: 2,0331797

General Environment conditions: uk.,

Pers No. 1 of L

TEST H	ESUL IN
--------	---------

>		1			11
Nn.	Len Charents	Leits	Test Micihed	Reuli	Limets for Stream Water Standards
$\mathbf{I}_{\mathcal{F}_{i}}$	Criptor	Hazet Hind, May	IS 3025 (2m) 41	10-	900
2,	pii	(# <u>1</u>	18 3075 (Part 1)	4.62	8,5 to 3,5
S.	Total Suspended Status	ing/i	IS.3025- Peri-17	la .	2
4.	olal Hissophed Solida	mel, Mes.	18-009 (fac. 6)	116	1500
:	Clika de (as Cl)	mgri, Max	IS 3025 (min -0.2)	8.5	800
5.	There (per l'ol)	ang/, Max	Y 11 (8 o) 4 P4 A 25 ⁴ Ydd CA 2017	0.34	io.
7.	Sulphases, (as \$65)	mgrt, Max	15 3025 (Pan -24)	24	405
1.	Hour de (34 f)	ngt. Mar	4500-F D APHA 23° Edwar 2017	и.ан	1.5
9.	Nuraco Iza NU-1	ng/1 Max	4500 NOVE 117 Speciatphrovnersa Screening Messed	9.8	Mi
19,	Copportos Cult	ingfl, fidan	M H H of APIGA 23 ^M Editor 2017	\$11. 02	1,3
:1:	Manganoscias Min	m _E ·l	21 (1 H z) 4 PH & 2) ² Educat 20-2	< 0.02	3 55 1
:2	Selement 146 Set	mg/L Mas_	71 # H of AP-FA 23 * Mation 2017	*II.#1	-2,05
3	And (m Zu)	ng", Was.	71 1 H or 61914 23 ⁴ 1 cmm 2017	0.002	15
R.	Comunity (2)	rigil Mas	21 1 B of AP#4 23" Editor 20 7	40. m))	×II.1
5.	Load (as th)	Pg1 Miss	JPT Dec APIA 231 Egines (III 2	40.1	n,:
6	Anemo (2x, 4x)	ng'i Mak	21 4 C of AfteA 23 4 Batters 20, 7	~UM1	0.2
7.	Cyanide (as f.N)	ng"l, Mas	4800 CN C. Calminetric Vactors, A HTA 33 ⁴ Editor 2017	<0.43	4.05
la.	Cartinium (as Cr. ²)	ng1, Mas	110 H of 66 IA / 3 ⁴ Edition 2017	< 0.02	3.04
Ų.	Aborto, Detergores (as MBAS)	mg/t Max	Aracs, KortS (\$24E)	*11.1	16
2D.	Prenatur Compounds (as CAIyOR)	ng'l Mac	17 atherate 11	-r0.608	Idlos
О.,	COD	mg/I	15-3525 - Part-5K	36	-
12.	UDD ras Uni	Page	15 (015) (10 of t)	5.	1
23	Drented Geographs (1)]	mail Min	18-7425 (Pan-36)	53	4
24.	Oil & Grease	mpA, Max	15 3025 (Pag-39)	<1	111
25.	Total Cideism	(mprz JOHn I), Mąs.	16 1622	CH	5000

Interpretation of results. Nil, Drivinging from ast mathed; Nil.

*Complaints Register's a weighte at Laboratory

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mzed Signatory

C'BAD Enironmental Srienhou

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CIN No. 1074210TG1999PTC032358



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

TEST REPORT

Nume & Address of the Continuer: MAL JSW Asset Finaled

Teel Report No. : HSF 1/2021:Wisklinks

Lab Code No. 112 0451 MR Intel Dear : 15 ct.210

Project Name: Japang Immune Masses

Your Ret. *Lever David BY 97,210 .

Sample Theoription: Surface Waste Sample of No. a 5/2 Link Sample Date of Receipt : 05.07,2021

I No. 4 500 m. Sample (Mota's).

05.07.2021 Hatr of Reglatracina Date of commencement of leading buil7,202)

1 Notice 500 ml Wide mouth Glass Notice for O&G. 1 No. 4 250 nr. Sample Pie Steolises Bettle Per Miaes Uses of completion of sessing 14 03,2021

Packing : Plant 300 cs Test Beguired As given before

Sample condition at recept Friend sike

Sampling Details

Date of Sampling, 03,07,2028 Location of Sampling: Julya Nadl

Sampling Method/Procedure: IS 1025 Fan 1 General Amironment confident; ob ...

Sample tested as received

Page No. 1 of L

5		1	1		Units for Stevens Water
Ñā.	Tol Farenciar	4)= 14	l'eu Melhad	Result	Steemerds
I.	Conur	Hayon Unias, Max.	19 0025 Part 41	14	100
2	μH	9.5	IS 1025 (Part) (15	6.75	6.5 °o 4.5
3.	Lital Syspended Sixids	n _b /l	18:7025 Pan 11	.91	794F
۴,	Votal Dissolved Solids	mgt, Max	IS 1025 (Parson)	144	1500
5.	CNorde (as IT)	nigit, Max	18 3025 (Part 72)	12	900
6	Iron (as Fe)	mgl. Mrs.	Stat Blef A Pata 13 ^{et} Edition 2015	0.25	50
14	Sulphares (es. 90).	nigil, Max	19 0005 (Far. 24)	2ıı	100
K.	Planute (ac.F):	mgrt, Max.	ASHA 21 ^{al} Editor 2017	0.86	1.5
٠.	Nitrates (in SEA)	mg/ Max	4500-2004-8 OV Specificptivements According Method	9.5	50
10.	Capper to Cab	mgil, Mas.	SELL Block APHA 20 rd Tribbys 2017	<0.02	1,5
de la	Manganoro as Min	mg/l	APKA 23 ^M Edition 20, 7	# U2	5.276
2	Selentin (as Ag)	MgH. Max.	71 4 U ct 41914 23 ⁴ 140061 2017	<0.01	2114
A,	Yinc (1, Zn)	ragit Max.	APPA 231 Below 2017	0.03	: 9
14.	Codmium (as Cd)	PgT Max.	71 (1 U 7) A PHA 3 (3 Prima 2017	<0.003	-01
11	Toad (a- Ph)	ng'i Mak,	31 1 B of A PIFo 33 ⁴ Edition 20-7	- Unit	d.:
16	Amonic Igs Asi	right Max	91 47 66 4904 33 ⁴ Panta 2017	*0.01	0.2
12.	Cyanaki (as CN)	rag't Max	4590 CNP, Calouretra Methol, AFRA 33 ^M Idinor 2017	<0.02	11:05
iâ,	Chromium (as Crif)	rig't Max	21 1 9 ef A691A 23 ⁴ Elition 2015	* IL 02	1005
PI.	Animain Delargones (as MONAS)	mpt, Max	Annes Kint IS 17249	olt.1	1
II.	Photo lie Compounds (as CallyOb)	mg/I Max,	C5 3425 (Part 42)	~0.0et	0,006
EL.	(1))	78/	18 J975 Pap 5F	b1	
;9	B00 (a) 0,1	πg/	IN 3025 (Part-44)	3	
3	Desphyd Oxypenias (k)	mgt Min	1 × 302 × (Pap. 3k)	5.6	•
4	Off & Careavo	mpl, May	(S-M25)(Part-37)	۱ ۵	D.1
۲.	Los Colnomi	(mpd:100ml);Max	IS:1622	TEUH	5090

Insurpretation of results: Nil, Deviation from test method: Nil.

Complaints Regigling the existing attabaratory

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: lab@bsenvitech.com, info@bsenvitech.com

Website : www.bsenvitech.com CIN No. EU74210TG1999PTC032358

WATER FLOW RATE REPORT

JULY - 2021



Recognized by MoEF & CC, Gol: Valld upto August, 2022

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.	Kakarpant Nallah	0.705
4.	Jalpa Nadi	1.157

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

Authorised Signatory

Email lat-@bservitech.com, info@bservitech.com Website www.bsenvitech.com

CIN No. 1074210TG1999PTC032358

GROUND WATER LEVEL REPORT

AUGUST - 2021



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

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

\$.No	Location	Ground Water Level In Meters
l);	Dog 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 H.S Envi-Tech (P) Ltd.,

Authorised Signatory

"Complaints Register is available at Laboratory.

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Website (www.bsenvitech.com)

Websile pwww.bsenvitech.com CIN No. 1074210TG1999PTC032358

GROUND WATER
QUALITY REPORT

AUGUST - 2021



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

TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited

Test Report No. : BSE 1/2021/WS-05691

Date of Receipt : 16 98,2021

Date of completion of testing

Sample condition at receipt

Sample tested as received

Date of commencement of testing

Date of Registration

Lab Code No.

210689908

Issue Date

3.28.08.2021

Your Ref

: Letter Dated 16,08,2021

Project Name: Jajang Iron are Mines

Sample Description: Ground Water Sample

I No. x 2.0 Lins Sample.

J. No. 8 900 nd Sample (Metals).

1 No x 250 ml Sample (Microbiology).

Packing.

: Plastic Bottle & Pre-Sterifized Bottle

Test Required: As given below

Sampling Details

Date of Sampling: 12.08.2021

Location of Sampling: Bore well Kampleor Village

Sampling Method/Procedure: IS 3023 Part 1. General Environment conditions: Ok

Page No: 1 of 2

16,08,2001

17.08 2021

28.08 2021

Festild ok

TEST RESULTS

						rement as per 18580:2012
No.	Test Parameter	Units	Test Method	Result	Acceptable Ilmits	Permissible limits in absence of alternative source
\mathbf{I}_{i}	Odour	#	IS:3025 (Part-5	Agreeable	Agreeable	Agreeable
2.	Culour	Пажи	IS.3025 (Part) 1	< 5	5	. 2
3	pH	2	IS:3025 - Part-11	6.67	6.5-8.5	No Relaxation
4	Turhidity	NTU	FS:3025 -Part-10	< 1	1	5
5	Total Hardness 2s CaCO _s	пg/1	18:3025 -Part-21	72	200	000
ú	Iron as Fc	rng/I	311) B of APHA 23 ⁴¹ Edition 2317	0.08	1.0	No Relaxation
7,	Chlorides as CI	ngt	1809025 -Part-32	56	250	1000
К.	Total Dissolved Socida (d) 105°C	mg/l	15: 9025 + Part-16	218	.MI0	2000
V,	Caleiuny as Cz	прі	15:3025 (Part-40)	24	75	200
ID _E	Magnesium as Mg	rig/l	15:3025 (Part-46	2.9	30)	100
11%)	Sulphate as SO _a	mg/l	18:3025 -Part-24	,31	2400	400
12,0	Nitrate as NO ₁	прЛ	45(#FNO)-BIUV Spectrophotometric Serenting Method	15	45	No Relaxation
B _z	Fluande as F	اعات	45095F D. APITA 23 rd Edition 2017	0.43	1	1,5
14,	Total A katinity as CaCOs	rig/l	IS:3025 - Part-23	4-1	200	M00

Interpretation of results. Vil., Deviation from test method: No

(C.Chandra Mouli) Environmental Scientist

*Complaints Register slavelettle of Laboratory.

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CIN No. 1074210TG1999PFC032358



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

TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited

Test Report No. : HSF 1/2020/WS-03001

Lab Code No.

2106K950K

Issue Date

1.28 08:2021

Your Ref.

: Exter Dated 16 48,2021

Project Name: Jajung Iron ore Mines

Date of Receipt : 16.08.2021

Sample Description: Ground Water Sample : I Nac x 2.0 f trs Sample

1 No. + 500 of Sample (Metals).

I No.x 250 ml Sample (Micrabiology)

Packing.

: Plastic Boitle & Pre-Stemhaed Boitle

Test Required : As given below

[6.08.202] Date of Registration 17,08,2021 Date of commencement of testing 28.08.2021 Date of completion of testing Forund ok Sample condition at except

Sample lexted as received.

Sampling Details

Date of Sampling: 12 08 2021

Location of Sampling: Bore well Kamalpur Village

Sampling Method/Procedure: 15 3025 Part 1

Cangrul Environment conditions: Ok

Page No: 2 of 2

LEST RESULTS

6.					Requirement as per IS 10500:2012	
S. Nu.	Fest Parameter	Units	Test Method	Kesult	Acceptable limits	Permissible limits in absence of oliernative source
15.	Boron as B	mg/l	4500-B B Cureumin Moihad. APHA 23 ^N Edition 2017	< 0.10	0.5	2 4
16	Aluminium as Al	mg/l	3500 At B – Erichrome Cyanine R method	< 0.02	0.03	0.2
176	Copper as Cu	mg/l	APITA 23 th Edizion 2013	< 0.02	0.05	1.5
1.8	Manganese as Mn	mg/l	31 H B of APPA 33 th Edmon 2015	< 0.02	0.1	0.1
Ia.	Sclemum as Sc	ing/l	5114 C of APHA 23 rd Edition 2017	< 0.01	0,01	No Relaxation
241	Zinc 23 Zn	mg/l	3117 Blot APHA 23 th Edmon 2017	< 0.02	5	15
21,	Cudmium as Cil	mgd	311) Cinf APHA 20 rd Edision 2017	< 0.003	0.001	No Relaxation
22.	Load as Pb	mg/l	31 J 1 C of APHA 23 th Edition 2017	< 0.61	0.01	No Relaxation
23.	Mercury as Hg	nga	5012 Blof APHA 23 rd Edition 2017	< 0.001	0.000	No Relaxation
34	Lotal Arsenia as As	nap/l	3114 Clot APHA 23 th Edmon 2013	< 0.01	0.01	0.05
25.	Total Chromium as Cr	mg/l	2111 C of APHA 23 rd Edition 2017	< 0.62	0.05	No Relaxation
26	Total Coliforns	CFU/100ml	P\$(1623 = 1991)	Absent		9

Interpretation of results: Not. Deviation Form test method: Ni:

Authorized Signatory (G.Chandra Mouli) Environmental Scientist

as Epcl of the Reported

*Complaints Register is available at Laboratory,

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CIN No. @U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited

Test Report No. : HSF 1/2021/WS-02602

Lub Code No. : 210689808

Issue Date : 28 08 2021

Your Ref.

: Detter Dateit 16.08 2021

Date of Receipt 1: 16.88.2021 Project Name: Jajang Iron are Mines

Sample Description: Ground Water Sample Qty : No. x 2.0 Lits Sample

I No. x 500 ml Sample(Metals).

I No.a 250 inf Sample (Microbiology)

Packing . Plostic Bortlo & Pre-Steinhald Bortle

Test Required: As given below.

Date of Sampling: 12,08,2021

16 08,2021 Date of Registration 17 0× 2021 Date of commencement of testing Date of completion of testing 28.8(8.2021) Sample condition at receipt Found ok

Sample tested as received

Sampling Details

Location of Sampling: Bore well Lijang V Hage

Sampling Method/Procedure: IS 3025 Part 1. General Environment conditions: Ok

Page Not 1 of 2

TESC RESULTS

S.					Requirement as per IS 10500:2012	
No.	Lest Parameter	L-nius	Fest Method	Result	Acceptuble Umics	Permissible limits in absence of alternative source
4,	Odear	*	15.3025 -Part-5	Agreeuble	Agreeable	Agreeable
2	Coleur	Hazer	15:3025 -Part-4	< 5	5	15
3.	pH	22	IS:3025- Part-11	n.HI	6.5-8.5	No Relaxation
4.	Turbidity	NTU	IS:3025 -Part-10	٤1	1	5
5,	Total Hardness as CaCOs	ing/l	15:3025 -Part-21	Rh	200	600
ń	Iron as Fe	irig, l	3111 B of APHA 23 th Edition 2017	П.11	1.0	No Relucation
7.	Chlorides as CT	mg/l	15/3025 -Part-32	м	250	Japa
Х,	Total Dissolved Soluls (g 155°C	mg/l	IN 3025 - Part-16	242	500	2000
۹.	Calcium as Ca	iriy, l	IS 3025- Part-40	28	75	2(0)
$m_{\rm eq}$	Magnesium av Mg	mg/I	IS 3025 -Part-46	3.9	30	100
П	Sulphate as SO ₄	ingd	IS:3025 -Part-24	34	200	4(0)
12)	Nirraic as NO;	mg/l	45(0-NO _V B (1V Spectrophotometric Serecting Method	16	45	No Relaxation
IJŴ	Floande as F	mg/l	4500-F Ot. API3A 23 ¹⁴ Edition 2017	17.38	1	1.5
14	Total Alkalinity as CaCO ₃	nyl	15:3025 -Part-23	52	200	(410)

Interpretation of results. Not. Deviation from test method: Not.

Authorized Signatory G.Chandra Youll) Environmental Netentist

*Complaids Register is available at Laboratory.

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CIN No. @U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited

Test Report No.: BSET/2021, WS-03602

Lab Code No.

1.218689808

Isaue Date

: 28.08.2621

Your Ref.

: Letter (Arcel 16 08 202

Date of Receipt : 16.08.2021

Project Name: Jajang Iron ore Mines

On.

Sample Description: Ground Water Sample

: I No. x 2.0 Ltrs Sample

I No. x 500 ml Sample(Motals).

1 No x 250 ml Sample (Microbiology)

Packing.

: Plasno Boirle & Pre-Signifized Boitle

Date of Registration 16318,2021 Date of commencement of testing Date of completion of testing

13408-2021 28 (18,202)

Sample condition at receipt

Faund ak

Test Required: As given below:

Sampling Details

Date of Suppling: 12,08,2021 Location of Sampling: Bere well Jajong Village Sample tested as exceived

Sampling Method/Procedure: 15/3025 Part 1.

General Environment conditions: Ok.

Page Not 2 of 2

HAT RESULTS

S.						rement as per 18500:2012
No.	Test Parameter	Majis	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source
15.	Doron as II	ng.	4500-B B Curamin Merkod, APRA 23 rd Edition 2017	< 0.10	0.5	2.4
16.	Aluminium as Al	മൂട്ട	3500 ALB Enchrone Cyanine R method	< 0.02	0.03	0.2
12.5	Copper as Cu	mg/i	3111 B of APHA 23" Edingo 2017	< 0.02	0.05	1.5
18.	Mangarose as Mn	mg/l	3101 Blaf APHA 23 rd Edition 2011	< 0.07	0,1	93
198	Selen am as So	ngl	3114 Clof APHA 23 th Edition 2017	< 0.01	0.01	No Relaxation
10.	Zioc as Zu	nig/l	311 For APHA 2 0 Tablum 2017	< 0.02	5	1.5
2 %	Cadnoum as Cd	nig/l	3111 Clof APHA 21 ¹¹ Edition 2012	< 0.003	0.003	No Relaxation
27.	Lead as Pb	mg/l	1111 C of APHA 2 ^{et} (alman 2017	< 0.01	6,61	No Relaxation
23.	Mercury as H _B	mg/l	0112 Blof APHA 21 th Edition, 2017	< 0.0H	0.001	No Relaxation
24.	Total Asseme as As	mg/I	31/4 C of APHA 23 ^o Salitar 2011	< 0.01	0.01	0.05
25%	Total Chromium as Cr	mg/I	THE Claft APHA 25" Edition 2015	< 0.02	0.05	No Retaxation
26.	Fotal Coliforns	CFU/100inl	18: 1622 1981	Absent		Tal

Interpretation of results, Nrt. Deviation Four test incihod, Nrt.

Authorized Signatory (G.Chandea Moule) Privinguntental Scientist

os End of the Reportso

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Website : www.bsenvilech.com

CIN No. #U74210TG1999PTCC32358



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

Name & Address of the Customer: M/s, JSW Steel Limited

Test Report No. (BSF 1/2021/WS-0360).

Lab Code No.

: 210689708

Isrue Date

: 28 08 2021

Your Ref.

: Letter Dated 16:08:2021

Date of Receipt : 16,08 2021

Project Name: Jajung fron ore Mines

Sample Description: Ground Water Sample

: 1 No. x 2.0 Lins Sample

I No 3,500 ml Sample(Metals):

1 No x 250 ml Sample (Microbiology)

Packing.

a Plastic Bottle & Pre Stenlized Bottle

Test Required: As given below

16,08 2021 **Hate of Registration** 17.08.2021 Date of commencement of testing Date of completion of testing 28.08.2021 Sample condition at receipt Found ek

Sample tested as received

Sampling Details

Date of Sampling: 12.08 2021

Location of Sampling: Dug well Jurudi Village

Sampling Method/Procedure: IS 3025 Part 1

General Environment conditions: Ok

Page No: 1 of 2

TEST RESULTS

S.						irement as per 10500:2012
No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible Umbs in absence of givernative source
15.	Odaur	**	IS:3025 -Pan-5	Agreeable	Agreeab.o	Agreeable
29	Colour	Hazen	IS:3005 -Pan-4	< 5	5	65
3.	рII	44	IS:3025- Pan-11	6.86	6.5-8.5	No Relaxation
4,	Turbidity	NTU	18:0025 -Part-10	×1	1	5
5	Texal Hardness as CaCO ₁	mg/1	IS:3025 -Part-21	76	2410	601)
Ú.	from as Fe	mg/l	3011 B of APIIA 23 rd Edition 2017	0.08	1.0	No Relaxation
2,	Chlorides as Cl	mg/l	IS:3025 -Part-12	49	250	1000
K.	Total Dissirived Solids @1050C	ligit	(S:3025 - Part-16	220	500	2000
9.	Calcium as Ca	mg/l	1S 3025- Part-40	24	75	201
10,	Magnesiam as Mg	- l/g/I	1S 3025 - Part-46	3.9	411	100
11.5	Sulphate as SO ₄	mg/l	IS.3025 -Part-24	28	200	400
12	Nitrare as NO.	ing/l	4590-NO ₂ -B T/V Spectrophotometric Screening Method	21	45	No Relocation.
13.	Fluoride as F	mg/l	4500-E ID, APH A 23 th Edition 2017	0,44	ì	1.5
14	Total Alkalinity as CaCO1	mg/I	IS:3025 -Part-23	56	200	600

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

Authorized Signatory (:G.Chandra Mouli) Environmental Scientist

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CIN No. 1U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Customer: M/s, JSW Sivel Limited.

Test Report No. : BSET/2021/WS-03603

Lab Code No.

210689708

Issue Date

: 28 08 2021

Your Ref.

: Lotter Dated 16,08,2021

Date of Receipt 1: 16 08 2021

Sample Description: Ground Water Sample I No a 240 Lits Sample

1 No. x 500 ml Sample(Metals).

1 No.s 250 ml Sample (Microbiology).

Packing

: Plastic Boxtle & Pre-Sterilized Boxtle

Test Required: As given below.

Project Name: Jajang Iron ore Mines

Date of Registration 16 08 2021 17,08,2021 Date of commencement of testing Date of completion of testing 28.08.2021 Found ak Sample condition at receipt

Sample tested us received

Sampling Details

Date of Sampling: 12 08 2021

Location of Sampling: Dug well fund: Village

Sampling Method/Procedure: IS 3025 Part I.

General Environment conditions: Ok

Page No. 2 of 2

TEST RESUUTS

5.						rement as per 1950#:2012
No.	Test Parameter	Units	Test Method	Result	Acceptable limits	Permissible liquits in absence of ottermotive source
LS _S	Buron as H	mg/l	4500-B B. Curcumin Method, APFIA 23° Edition 2017	< 0.18	0.5	2.4
I٨	Aluminium as Al	mg/l	3500 ATB – Englicome Cyanine Rimethod	< 0.02	4.03	0.2
12,	Соррег аз Си	mg/l	3111 B of APBA 23 ⁻¹ Edition 2017	< 0.02	(1.05	1.5
18.	Мыдшеге 24 Ми	ing/l	3111 B of APHA 23 rd Edition 2017	< 0.02	11 1	0.3
19-	Scienium as Sc	mg/l	3114 Cloff APHA 23 ^{cd} Edition 2017	< 0,01	9.01	No Relaxation
20.	Zinc as Zr.	mg/l	3 H 1 B of APMA 2.01 Edition 2017	< 0.02	>	15
21.	Cadminin as Cd	mg/I	3113 C of APBA 23 ¹ Edition 2012	<41.003	0.000	No Relaxation
22	Lead 28 Pb	ing/I	3111 C of APHA 211 Edition 2017	< 0.01	0.01	No Relaxition
23,0	Mercury as Hg	mg/I	30.12 B of APITA 20 rd Edition 2017	< 0,001	0,001	No Relaxation
24.	Total Arsenic as As	mg/l	3, 14 C of APHA 2.0° Edition 3007	< 0.01	0.01	0.05
25.	Tetal Chronnen as Cr	mg/I	3010 C of APIIA 21 rd fudition 2017	< 0.02	0.05	No Relaxation
26	Total Californis	CPU/100ml	18, 1422 - 1981	Absent		W.

Interpretation of results: Nil, Deviation from test mythod: Nil.

Authorized Signatory (G.Chundra Mouli) Environmental Scientist

see Find of the Reportion

"Complaints Register is available at Laboratory

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CIN No. 4 U74210TG1999PTC032358



Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

Name & Address of the Customer: M/s, JSW Steet Limited

Test Report No. : BSI 1/2021/9/S403604

Lab Code No.

. 210689688

Issue Date

: 08 08:2021

Your Ref.

: Lotter Dated 16.08.2021

Project Name: Jajang from ore Mines

Date of Receipt : 16 08 2021

Sample Description: Ground Water Sample

: 1 No. N 2 0 Lits Sample

1 No. x 500 ml Sample(Metals).

1 No.x 250 inf Sample (Microbiology)

Packing

: Plastic Boitle & Pre-Sterilized Bottle

Test Required: As given below.

16 0x 2021 Date of Registration 17,08,2021 Date of commencement of testing Date of completion of testing 28.08.2021 Sample condition at receipt Framel ak

Sample tested us received

Sampling Details

Date of Sampling: 12,08 2021.

Location of Sampling: Bore well Jalahari Village

Sampling Method/Procedure: IS 3025 Part 1

General Environment conditions: Ok-

Page Nor Lef 2

TEST RESULTS

s.					1 7.	irement as per 18580:2012	
No.	Text Parameter	Pnits	Test Method	Result	Acceptable limits	Permissible limits in absence of alternative source	
4,	Oderur	75	tS:3025 - Part-5	Agreeable	Agrecable	Agrecable	
2	Coleur	Пасол	18:3005 -Part-4	< 5	3	. 2	
ì	pH	100	18.J625- Part-11	6.64	6.5-8.5	No Relaxation	
4	Tu-biding	NTU.	18.0025 -Part-10	<1	1	5	
5	Total Hardness as CnCOs	nig:1	18:3925 -Part-21	50	2(0)	600	
6.	Iran as I c	mg/l	3111 Blot APITA 23 rd Ecotion 2017	0.09	1.9	No Relaction	
7.	C'Elondes as CI	ing/l	18:1025 -Part-32	48	250	118:11	
K.	Tatal Dissolved Solids §6.1652C	mg/l	IS (3025 - Part- 16	202	500	2000	
9.	Colcium as Ca	mg/l	JS:302N- Pap-49	16	75	2(10)	
H	Magnesium as Mg	mg/l	15.3025 -Pan-46	2.4	341	100	
П,	Sulphate as SO ₃	mg/I	15.3025 -Part-24	21	200	40#	
12	Nitrate as NO ₃	ngd	4500-NO _V B UV Specific photometric Screening Methyl	13	45	No Relaxation	
13,	Eluonde as F	mg/l	4500-F D _s APHA 23 rd Edution 2017	0.42	l l	1.5	
[-]	Total Alkal mty as CaCO ₁	mg/l	IS:3035 -Part-23	54	200	600	
		4			-		

Interpretation of results: Nil, Deviation from iest method: Nil.

Authorized Signatory (G.Chandra Monti) Environmental Scientist

"Complainty Register is available at Laboratury

Websile #www.bsenvitech.com.

CIN No. #11742101G1999FTCC32358



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

TEST REPORT

Name & Address of the Customer : M/s. 25W Steel Limited.

Test Report No.: BSET/2021/WS/03604

Lab Code No 210689608

Issue Date : 28,08,2021

Dute of Registration

Your Ref

: Latter Dated 16 08:2021

Project Name: Jajung from ore Mines

Date of Receipt : 16.08.3021

Date of commencement of testing

Sample Description: Ground Water Sample

Qty : 1 No. a 2.0 Lits Sample

Location of Sampling: Bore well Jalahari Village

1 No. 3 500 ml Sample(Metals).

I No x 250 ml Sample (Microbiology)

Packing : Plastic Boide & Pre-Sterifized Boide

Sample condition at receipt

Date of completion of testing

Sample tested as received

Test Required: As given below bate of Sampling: 12.08.2021

Sampling Details

Sampling Method/Procedure: IS 3025 Part 1

General Environment conditions: Ok-

Page Not 2 of 2

16.08.2021

17,08,2021

28 08.2621

Found ok

TEST RESULTS

5.				Result	Requirement as per 18 (0500):2012	
No.	Test Parameter	Units	Test Method		Acceptable limits	Permissible limits In absence of alternative source
li.	Borgn as B	Pgin	4ft#4R R Curcumm Method, APITA 23 rd Eduton 2017	< 0.10	0.5	24
I(s.	Aluminium 55 Al	nigri	2508 ALB Erichnome Ovanine Rimethind	< 0.01	0.03	6.2
17.	Copper as Cu	mg/l	9111 Blof APHA 23 th Edution 2017	< 0.02	0.05	1.5
18.	Manganese as Mn	mgi	JULI Blof APITA 23 th Edition 2017	< 0.02	0.1	41.3
19_	Selentim as Se	mg/l	3114 C of APHA 23 th Edition 2017	< 0.01	10.3	No Relaxation
29	Z no as Zo	mg/I	310 FB a! APHA 23 th Edition 2017	< 0.02	1	15
21.	Codmaum 13 Cd	mg/I	3111 Cloff APHA 23 rd Edition 2017	< 0.003	0.003	No Relaxation
22.	Lead as Ph	mel	NTH Clof APHA 23° Edition 2017	< 0.03	0.01	No Relaxation
23.	Moreony as Fig.	ing/l	3112 B of APHA 21 st Edition 2017	< 0.001	0.001	No Relaxation
24.	i otal Arsenic as As	ing/l	3114 Clast APHA 219 Edman 2017	< 0.01	0.01	0.05
25.	Lotal Charmians as Cr	light	3111 Clori APHA 20 ¹⁰ Edition 2017	< 0.02	0.05	No Relaxation
26.	Fotal Coldamy	4 FD/100ml	18/ 1623 - 1984	Absent	75	ë

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

Authorized Signalary (G.Chandra Mouli) Environmental Scientist

*** End or the Report ***

*Complaints Register is available at Laboratory

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Website | www.bservitech.com CIN No. | U74210TG1999PT0032358



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

TEST REPORT

Name & Address of the Customer: Mrs. JSW Steel Limited

Test Report No. : BSET/2021/WS-01605

Lab Code No . 210689508

Isrue Date : 28 08 2021

Date of Receipt : 16.08.2021

Your Ref.

Project Name: Jajang Iron ore Mines

Sample Description: Ground Water Sample

: I No. x 2.0 Lt s 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

16.08.2021 Date of Registration. 17 08:2021 Date of commencement of testing 28 0x 2021 Date of completion of testing Sample condition at receipt Found ak

s Letter Dated 16:08:2021

Sample tested as received

Sampling Details

Date of Sampling: 12,08,2021

Location of Sampling: Tap Water Near Jajang, Village

Sampling Method/Procedure: 18 3025 Part 1 General Environment conditions: Ok

Page Not 1 of 2

TEST RESULTS

						inement as per 10500:2012	
S. No.	Test Parameter	l.nits	Test Method	Result	Acceptable Jimits	Permisuble limits An absence of alternative source	
(3)	Odour	*	18:3925 -Part-5	Agreeable	Agreeable	Agreeable	
1.	Colour	Hazera	(S:3925 -Part-4	< 5	5	1.5	
4.	ęn	- 44	IS:3025- Part-11	6.74	6.5-8.5	No Relayation	
4	Turbiday	NTU	15.J025 -Part-10	<1	L	5	
5.	Total Hardness as CaCO:	ing/l	15:0025 - Part-21	62	200	6341	
FL.	Iran as Fe	mpl	3011 Blof APILA 23 rd Edition 2017	0.08	10	No Relaxation	
7.	Chlorides as Cl	mg/I	18:1025 -Part-32	42	250	1000	
X.	Tetal Dissolved Solids 66 105 nC	mg/l	(\$1)025 - Part-16	194	500	2000	
9.	Calcium as Ca	mg/L	[S:0025- Parc=40]	20	75	200	
ш	Magneshim as Mg	mgl	15:3025 -Part-46	2.9	VII.	100	
H _{el}	Sulphate as SO.	mg/l	15: 1025 - Part-24	25	200	4:141	
12.	Nitrate as NO ₁	mg/l	4500-NO ₁ -B 17V Spectrophotometric Sectoring Method	Įų	45	No Re avalion	
13,	Fluoride as F	mg/I	450(F)1 D; APHA 23 ¹¹ Edition 2017	0.47	1	1.5	
14.	Total Alkalimity as CaCOs	mg/l	15:3025 - Part-23	48	2(8)	fy(h)	

Interpretation of results: N.I., Deviation from test method: N.I.

Authorized Signutory (-C.Chandra Mouli) Environmental Scientist

"Complaints Register is available at Laboratory."

Phone

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. Inb@bsonviledh.com, info@bsenvitech.com

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



Qny

Packing

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Customer: Mrs. JSW Steel Limited

Test Report No. (OSET/2021/WS-03605)

Lab Cude No ± 210589508

Issue Date : 28 0x 2021

Your Ref

: Letter Dated 16,08,2021

Date of Receipt is 15:08:2021.

Project Name: Jajung Iron ore Alines Sample Description: Ground Water Sample

: I No x 2.0 this Sample

1 No. x 500 ml Sample (Metals)

I No x 250 ml Sample (Microbiology)

: Pastic Boitle & Pre-Steribzed Bonle

Test Required: As given below

16 08 2021 Date of Registration 17,08,2021 Date of commencement of testing 28,08,2021 Date of completion of testing Sample condition at receipt Found ok

Sample tested as received:

Sampling Detaits

Date of Sampling: 12 08 2021

Lucation of Sampling: Tap Water Near Jajung, Village

Sampling Method/Procedure: 18 2025 Part 1

General Environment conditions: Ok

Page Not 2 of 2

TEST RESULTS

S.			V .			rement as per 10500:2012
No.	Test Parameter	(.nles	Tesi Meshod	Result	Acceptable limits	Permissible timits in absence of alternative source
15.	Boron as R	mg/l	4500-B B Carcuria Method, APHA 23° Edition 2017	< 0.10	0.5	2.4
14.	Altigoroum as Al	mg/l	3500 ALB – Erichtanie Cyantine R method	< 0.02	1541,4	0.2
175	Соррат аз Си	mg/l	3111 Blof APHA 21 ⁹ Edition 2013	< 0.02	0.05	1.5
18.	Manganese as Mn	mg/l	3111 Blof APHA 21 ⁻⁹ Edition 2013	< 41,02	01	nπ
19	Selonium os Se	mg/l	3114 Clor APHA 23 ¹¹ Edinor 2013	<.0,01	0:01	No Relaxation
20	Ziok as Zn	mg/l	3111 Blor APHA 21 ¹² Edition 2017	< 0.02	5	15
2),	Cadminin as Cd	mg ⁿ	3111 C or APHA 21 st Edition 2017	< 0.0003	0.903	No Relaxation
22	Load as Ph	mg/!	THE Clof APHA 22" Edujon 2013	< 0,01	6.01	No Relavation
21.	Mercury as Fig.	mg/l	3112 Blof APHA 2.1 ¹² Edison 2017	< 0.001	0.001	No Helakation
24.	Total Arsonic as As	πд.	3114 C of APHA 21 Febbos 2017	< 0.01	15411	0.95
25.	Total Chromium as Cr	mg/i	3111 C of APHA 21 st Edzion 2017	< 0.02	0.05	No Relaxation
2 6 .	Total Coldinns	CFL/100ml	18, 1622 - 981	Absent		

Interpretation of results, Nrt. Deviation from test inclined, Nrt.

Authorized Signatory (G.Chandra Mouli) Sevironmental Scientist

on End of the Report on

"Complaints Register is assistable at Laboratory.

Phone

Telangana, India

CIN No. \$U74210TG:999PTC032358



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

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

: 2KHIX.2021

Your Ref.

: Letter Dated 16:68:2021

Date of Receipt 1: 16.08.2021

Project Name: Jajang Iron ore Mines

Sample Description: Ground Water Sample : I No. x 2.0 Ltrs Sample

Qry.

LNo. x 500 ml Sample(Metals).

7 No x 250 ml Szuple (Microbiology)

Packing.

: Plastic Bettle & Pre-Sterilized Bottle

Test Required: As given below

16,08,2021 Date of Registration 17/08/2021 Date of commencement of testing Date of completion of testing 1500 80 80 Sample condition at receipt Found ok

Sample lested as received

Sampling Details

Date of Sampling: 12.08.2021

Location of Sumpling: Dug well Near BH, Siding

Sampling Method/Procedure: IS 3025 Part 1.

General Environnient conditions: Ok.

Page Not 1 of 2

LEST RESULTS

5. No-	Тем Рагаристог				Requirement as per IS 19500:2012	
		Units	Test Method	Result	Acceptable Hosits	Permissible limits in absence of alternative source
Ŀ	Odour	- 55	IS:3025 (Part-S	Agreeable	Agreeable	Agrozable
2,	Colour	Hazen	IS:3025 (Pan-4)	< 5	5	1.5
3.	рН	22	85:3025 Part-11	6.72	6.5-X.5	No Relaxation
4.	Turbicity	NTU	15:3025 Part 10	۲۱	1	i
5.	Total Hardness as CaCOs	rag/l	18:3023 -Part-21	15:3023 -Part-21 68		600
ė.	Iron as Fe	mg/L	3111 B of APHA 23 th Edition 2017 0.07		1.0	No Refaration
7,	Chlorides as Cl	mg/l	15/31/25 -Part-32 46		250	1800
X,	Fotal Physolved Solids 5r 193°C	mg/l	15.2925 - Part-16 21K		500	2600
Ŋ.	Calcium as Ca	mg/l	15:3025- Part-40	15: 5025 - Part-40 24		200
13	Magnes and as Mg	mg/l	15:3025 (Part)46	1.9	141	200
П.	Sulphate as SO ₃	mg/l	18: 3025 -Part-24 2#		200	4:81
1 2.	Nitrate as NO.	mg/l	4500-ND, BIOV Spectrophotometric Screening, Method	15	45	No Relayation
13.	Fluoride as F	mg/l	4500-F D; APHA 23" Edition 2017 8.42		L	1.5
H.	Total Alkalinity is CaCO ₁	ing/I	15:3025 (Part-23)	640	2006	630

Interpretation of results. Nit, Deviation from test method. Nil.

(G.Chandra Moull) Environmental Selentist

*Complaints Register is available #; Laboratory

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Email

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CIN No. 1074210TG1999PTCIB2358



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

TEST REPORT

Name & Address of the Customer: M/s. JSW Steel Limited

Test Report No. : BSET/2021/WS-03606

Lab Cott: No.

. 210089408

Issue Date

: 28.08.2021

Your Bel-

: Letter Dared (6.08/2021)

Date of commencement of testing

Dare of completion of testing

Sumple condition at receipt

Project Name: Jajang Iron ore Mines

Date of Receipt : 16.08.2821 Date of Registrotina

Sample Description: Ground Water Sample : I No. x 2.01 try Sample

1 No. s 509 ml Sample(Metals).

Location of Sampling: Dog well Near Bill Siding

1 No x 250 m) Sample (Microbiology).

Packing.

: Plastic Bottle & Pra Sterrfized Bodle

Sample lested as received

Test Required : As given below

Date of Sampling: 12.0k 2021

Sampling Details

Sampling Method/Procedure: 15/3025 Part 1.

General Environment conditions: Ok-

Page Not 2 of 2

16,08,2021

17.08,2021

38 08 2021

Found isk

TEST RESULTS

S. Nu.	Test Parameter	Units		Result	Requirement as per 15 10500:2012	
			Test Method		Acceptable limits	Permissible limits In absence of alternative source
13.	Boran as II	mar.	4500-B B mye*. Curcumm Method: < 9.1 APHA 23" Schlam 2017	< 9.14	n 0.5	2.4
16.	Alternation as Al	mg/	3500 ALB Erichtome < 0.02		0.03	0.2
125	Copper as Ca	Pgro	31 1 0 of APHA 23 ^{of} Editors 2017 < 0.02		0.05	1.5
18.	Manganese as Mn	nge	3111 B of APHA 23 th Edition 2017	< 0.02	0.1	0.3
19)	Selemum as Se	mg·l	3114 C of APHA 23 ¹ Islaam 2012	< 0,01	0.01	No Re axation
20.	Zinc 25 Zn	mgf	3111 Blof APEA 22 rd Edition 2017	< 0.02	5	15
210	Ca đ gungrus Cd	mg'l	31[11] of APEA 23" Edition 2017	< 0.003	0.003	No Relayation
22.	I cad as Pb	ngi	3111 Cloff APHA 21 rd Edition 2017	< 0.01	0.04	No Relaxation
230	Mercury as Fig	mg/l	3112 B of APITA (3 rd Edition 2017)	< 0.001	0.001	No Relaxation
24.	Total Arsenic as As	пу/	3114 C of APHA 2. ¹¹¹ Edition 2017	< 9.01	0.01	0.05
25.	Total Chromium 48 Ct	arg/	0111 C of APHA 23 th Edition 2017	< 0.02	0.05	No Relaxation
26,	Total Colifornis	CEV-Tollml	18, 1622 - 1981	Aftseur		

Interpretation of results. Not, Deviation from test method: Not

Authorized Signatory GChandra Moult) Environmental Scientist

-re boil of the Report-re-

*Complaints Register is available at Laboratory,

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Website www.bsenviteah.com

CIN No. #U74210TG1999PTC032358

SURFACE RUN OFF ANALYSIS REPORT

AUGUST - 2021



Quantity

Packag

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Name & Address of the Customer : Mrs. Jaw Stret Limited

Sample Description: Son See Kon off Water Somple

: Pagig Pagles

Project Neste, Japang from ore Wines

Date of Sampling: 14 (8,202)

Test Report No. : BSC 1500 1595 (1968)

Balist edit Ne-2119661260 : 10.48.2021 haus Date

heur Hrl : Lengt On vit 18,08,200

Ham of Brengt - 1809 3421

15,191,2021

19,001,2021 Date of commencement of testing

55,000,2021 ties of completion of rewing Enand ek Sample condition at receipt

Sample sexted as received

Tru Required a Akigorin heliow

: I. Se, et il tur. Sample I Suji a Wilmi vample i Wajajaj I. Nin je 100 m. Waje manh Calas hapig I. ni Ngej

USings 250 mt Sample Pre-Start and Bottle For Michael

Sampling Details

Sampling Method/Procedure, IS 1005 Pan I

Location of Sampling, Water Check Dairy scar Jajung Railway Stating General kassirenment readjoings: als Page No. 1 of 1

TEST RESULTS

S No.	Tési Partametér	E nils	Best Method	Result	1 Imits for Stream Water Standards
1,0	Coloar	Ugo, o Howe, Man	15 5005 (Part 1)	14	990
2.	pd	3	18 Year of the 111		6.7 to 6.5
3.	First Superistral Studys myst		19 7025 (Pan 13	54	7.44
4	Tival Disarved Selids mg/l, Visa		18/3024 (Part-16)	198	1500
s,	Clideotic (2+1-)	ngt. Van	16 2025 (Pan 92)	20	WOIL
5,	how (46 Hz)	mgrt, Mac	910 ft at APDA 25 ⁴ (duest 2012	9.24	43
1	Subhyers (as 807)	ngd Mac	18 9725 (Page 74)	27	440
	-face ide (ac l')	mg I, Mas	450 (1.10) A 14A 71° 1 (b) (r) (0.17)	D 22	53
۹.,	Nacates (an Novi)	ng'i Mai	4 Vote Vit yill U.V. Specie physinetog Sercoung, Merkod	19	Sp
IC.	Cupper (w. Cu)	Ogf Mex.	71 T U Fr APITA 25" 1 cmp# 20 T	0.07	L.Y.
11_	Matgatase as Ma	me-l	21 1 b of APIA 33 ⁴ balon 2017	0.02	· m
12.	Salenium (as 8a)	orga, Man	51[1] Col 61926 23 ²⁶ Edition 2012	akii)	0.05
:4,	Zood las Zoo	ng'l Max	21 TB of APID-25° failure 2015	11,03	13
a	Latinum (gy Cip)	mgd, Max	APHA 2 12 Educto 2017	<0.001	1921
6.	Load facility	mgt, Vak	STEE for of APTIA 20° Educas 2017	-11.01	1.
JL.	Arrang (p. As) night Yan.		0114 (1 p) APPA 225 Falca 63012	40.01	4.2
174	Cyanick RCPS:	my L Max	1990 CN F. Color metric Method, APLA 225 L. Dron- 2017	লা.৪১	1-115
HK.	Chromour task (*) night was		21 (1 to list of FMA 20 rd between 200 https://doi.org/10.100/1000/1000/1000/1000/1000/1000/1	<0.02	205
194	Onioni, Detergries (2- MC45)	mg/1 Max	Annes Kieles (1048)	<ii.i< td=""><td>Li.</td></ii.i<>	Li.
20,	Prenolic Compounds (so 1, this fi	rendu. Compounds (as 1, 11d): 11 mg/l, 845s.		41(46)	0.045
Si.	(1)3	mgt	15 J025 - Parti-St	16	- 000
27.	Both and	l ng l		3	1
Э,	Devolved Oxygen to Og	med. Mis	15 3055 (Part-18)	5.3	1
:4	Call Accurates	m _k 9 Al _c A	14 (415 \$ (Pan -10)	41	IU
:4	Tetal C lifetin	Jupo 199mb Max	18022	חר	5000

Interpretation of results: Nil, Deviation floor test method. Nil.

authorized Signatory C.C. Chanden Moun ; Environmental Scientral

*Completing Repeter is a teritable at technical ory.

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CIN No #U74210TG 1999PTC032358

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SURFACE WATER
QUALITY REPORT

AUGUST - 2021



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

TEST REPORT

Name & Address of the Oppomer : Mis. JSW Social Limited

Lene Report No. (1851-1707), No. 5 e 3594

Label Code No. 214999408

Project Name: Jujung Join are Mines

Issue Date : 26,03,2021 Yeur Ret : Letter Placed IA CK 210

Sample Description: Surface Water Sample

Date of Receipt : 18/06,217

: 1 No. 53.0 I to Sample 1 No. v 200 ml Sample (Mency) Date of Registration 16:05:572 Date of commencement of testing 17,88,2021

1 Maria 200 ml Work recoth Grave testas por 100 c. I No. 8 250 ml Sample Pre statilines famile like Wigot hate of completion of testing 28/15/2021

Packing . Plantic Builder Type Required As elect below

Sample condition at acceipt Financial na Sample rested as received

Date of Sampling: 32 Ht. PALE Lucation of Sampling Husteren, River (Spareau) Sampling Details
Sampling Mather/Procedure: In 1075 Pag 1

General Environment conditions: (ik.,

Page No. 1 241

		TENT	RESULTS		
A Mile	Irsi Parpaprier	L 4lin	Lest Affeithma	Heagh	Limits the Stream Water Standards
16	: along	Turan Criss Mas	15 (0/5 [F854]	10	2010
2,	пП	*	(S.0025 (Pan-1))	n./aj	55 64 4 2
t,	Total Suspended Sofiab	n _p 1	15 3023- Pan 17	24	THE SAME
4,	Tural DimoNea Straje	.mg/ , Max.	IS 9025 (Part-15)	138	1500
4	Chade is Ci	angli, Max	18 902 (Pan 32)	20	an.
	Inin (ast a)	mg I, Max	Mill But Arba 23 ^d te har zili 1	0.25	50
9	Sulphates (4-50-)	ngt. Ma	18 AR75 (Purt 04)	18	400
4.	(hardops ()	mg-l Vas	4500-l- D 4 PHA 210 Hilliam 2017	0.17	13
91	Notates (as NOv)	myl Mas	450-NO ₂ H CV Spaceophylometer Serving, Method	9.1	Şir
٠٥.	Cupper tak Cay	right Max	0.11 H of A 91A 237 (d) an 2012	>6.02	1.5
L	Margarear as Ma	24,	APHA 354 liddinii 2012	< 0.02	2.50
(2)	Action to the Sc	ingl, Ma	1014/9 or APDA 281 1d not 2017	<0.01	C.PY
II.	Ann (as An)	og t Max	30.1 å o/ Al918 35 ⁴ 64 hm/2915	0.03	15
н	stadioum (avioli)	mgd, Max	101 9 e1 Act (A.2) ** spinor (b) -	<0.18.3	-10
15	cod (as the	med, Mari	90.1 (9) of A2F 6 22° (china: 201)	<4.04	ILI.
IN.	Machini (as As)	mg I, Mgs	Street at APPA 21° Educes (Street	<0.111	4,2
15,	Cyamde (as 1/8)	ng-t, Mas	4500 CS L, Colombino Wested, APITA 27 ¹⁰ Lighten 2017	<0.N2	0,05
IF.	T horomon (as Cr. *I	mg-1 Max.	7111 P. of 6.21(6.37" Lde op 2012	<0.02	2007
19	Attorne Deletyphs (2) MBAS(ing L Mas	Amer Roll A DD48	<u.i< td=""><td>(3)</td></u.i<>	(3)
30.	Phraedic Compounds (25 C.HdOU) mgd 36		-5 W25 (Part).13%	<0,001	10103
21	(O) pgf		a 1075 Parkst	10	(20)
32	10.00 (as O ₃) mg/l		18 3035 (Part14).		1
n,	Onsolved Oxygon Int (15)	Oxygen he Oyr mg.t, Mar		5.5	
24.	Dr. & Greate	Dr. & Greater tog., Max.		41	d.f.
es.	T. ha C.c. donn	(upre 17th 4), Mark	S 1522	130	ECH SUM

Interpretation of results in 1 Deviation from tealing likely N 1

*Complainte-Regigter examplable at Enhanciatory

4" Finer, 'AMITY VILLE', 12-13-1270/71/73. St. Ann's Road, Tamaka, Secunderabad - 500017, Telangana, India

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(G.Chandra Mauli) Environmental Scientist



Queobly.

Packing

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

harte & Address of the Continuer: Stor. 28th Steel Challed

: I Nicotal Lin Sample "No a 500 ml Sample (Malaca)

· Plaster Torrigo

Location of Sampling: Buitarani River Dewnstream

1 No. 1 900 mt Wide Found Glass boths for CAG. 1 No. 3 250 fol Sumply Pro Stern and Bettle Like Means TVs: Report No. : B46T-202 (WS-2859)

Leb Code Ne 210(600)rs Issue Date . 25.03.2021

Yeur Ref Shaller Dated to PK 2FX

Date of Receipt 15 pt 202

Date of Regeleration 16.03/2021

Bala of commencement of repring 7,68,7071 Date of completion of teeting 28.04.2025

Nample condition at avecipt Francisco in a

Sample instead as regelied

Test Required As pixed being

Date of Sumplies: 12.4k.1911.

Project Name: Jajang Iran ara Mares

Sample Beautiption: Surface Wassessample

Sampling Details

employ Method/Procedure: IS IIUS Part I

General Enstrumerat conditions of ...

Page No. Lor L

TEST RESULTS

S. Sn.	Lett Parameter	fleds	Tesi Meihod	Retult	Lineits for Stevam Water Steedards
Į.	Phape	Hazer Louis, May	< :025 Pan Li	15.	100
2, (ף'י	- 83	\$304 pseum	6.73	65 to \$5
J.	Local Suspended No edu	mg/1	18.1025 Part-17	14	7-97
4.	Livel Described Solids	mgd, Max	19 3024 (Family 65)	194	1300
5	Chland, ras CD	med, Slax	.8 3625 (Part 92)	25	500
٩	lint las Fer	mg-I, Max.	9131 [Col. APDA 75" [doi:yo.2017	0.29	111
7	Sulphanes (18 5C)	mgd, 912	.S 3025 (nars-24)	31	430
3	Hamle (2017)	ingal, Max	4500 (10), A 411A 2 (1) ((d) on 25(2)	0.24	1.3
10	Nimia na NO	rig I Max	1970 NO. B UN Speccopholometric Screening Method	17	41
10.	Capper (as 174)	ogt was	J11 H 51 APHA 251 Editor 2017	<0.02	LS-
r.	Маарогия 24 Ми	ang	3010 Broft APPo 22 rd Edition 2015	< 0.01	(94)
17	Schming (48.50)	ring L Max	1014 A of APRA 28" subten 2017	<0.01	1015
D.	Zinc (4s Zo)	ng I. Mix	APHA (F) Toppor (d) 7	0.05	5
14.	Lackment are cult	ing I, March	3000 B pd APRA 21 - Edward 2011	<0.001	3.1
12	Lead (as Ph)	my I, Maz ,	71.4 B of APRA 20° tole on 2011	40.0	201
16,	Aprine (a) Got	ng t, Vara	70.04 (1.04 A 200 A 201 Edition 2012	-ru,lin	4.2
12.	Cyamide (as I/M)	ing I. Vasco	H500 CN E. Cokroteine Metavd APDA 232 Pdk en 2017	*0.02	0.05
*	Chamber (A, Park)	ng l Max	JETH of APRA 23 feet no 2012	U.es	G ₁ 05
U,	Anima Detergens to MH45]	ng 1, Mas	Arrest Koris 11748	s/D.h	99 i
200.	Physicia Compounds (as CH-OE)	mg I Mas	(S 3025 (Part - (3)	40.001	6,068
/J.,.	CHD	mg·l	F 9779 - 7gm 4A	48	LETTER.
27	300 tas tiyi	mg/l	(\$ 1073 - Pan 44)	7	1
21.	, has sheef Unogen (p. 11)	met. Ma	18 1075 (Pan. 18)	5.1	1
24.	04 & Orașe	mg-, Max	15 302 St Peak Dep	<u> </u>	11.
25.	Lucil Celifyria	1200 Homy Max	15 1572	NAEC.	first)

Interpretation of results: Nil, Deviation from (2) mobile, Nil

"Complaints Register is available at Laboratory

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Adthorized Segnatory (G.Chandra Mouli) Environmental Scientisa

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CIN No. 1:U74210TG 1999PTC032358



Ouganity.

B.S. ENVI - TECH PVT. LTD.

Recognized by MoEF & CC, Gol: Valid upto August, 2022.

TEST REPORT

Name & Address of the Concerner: W/s 35W Steel Limited

Ten Repair No. : BSFT/2071/W \$7/95/9

. Deter Dwed To 68 207

Lab-Code No. 1: 2, 0490308 Intert Date 1000,82,86:

Date of Receipt 1: 16/15/2021

Date of completion of sewing

Date of coronecococcas of testing

Bate of Registrates

Your Ref.

Project Name: Jajang Iron ore Muney

Aample Description: Scripte Water Sample : TNA 33.01 to Sample

1 No. 4 505 mu Sample (Metula)

1 No. in 500 ml Wide mouth Glass beite fort (AL) 1 No. a 250 of Sample Pro socillage (South for Mark)

Packing : Рідале Воліга Test Regulred : As airon tears

Sample condition at regrept

Sample tested at received Sampling Details

Date of Sampling: 12:88:2001 Location of Sampling: Same Need Rover, agreeing

Sampling Method/Procedure: IS 1025 Part I

General Entitionment conditions ok ...

Page No. 1 JC1

1604 2021

17 03.7021

28 05.2021

house us

TEST RESULTS

No.	Test Parameter	t.nin	Test Method	Result	Lamila ind Suream Waire Sugnitarits
I.	Colau	Baker Ches, May	(8-1025 (Pan 4)	14/	7180
>_	рH	(2)	IS 2025 (Part In:	6.74	65.0 * 5
١,	Lotal Suspended Solids	Горга	(8-9024- Pan 17	56	
ā,	Yoral Dissolved Solids	mpil. Max	15 1035 (Part le)	148.	1200
ş,	Chinede (18 (7))	mg', Max	IS 3025 (Pan .12)	12	eub
N.	Inch (as Fe)	mpi , Mas	5 (1) (5 of A PILA 23" Editing 2017	D.45	311
2	Nolphares (as Ma)	ng/., Max	18 1005 (PAG-21)	19	465
4	Fluoride (as F)	ing I, Novi	4500-5 D; APMA 235 Tailion 2013	0.07	1.5
1	Nitrates (au NiOr)	mg/L Mass	474ff-NCh-H L.V Sperimphosometric Screening Mothey	p.a.	50
IŲ.	, Apperrias t'us	mg I Mak	A11. B of APHA 231 Edition 2017	\$0.00	1,2
r.	Manazinose us Min	med	7711 [8 o] AJP14 7271 dispos 2017	< 0.02	(e
12	Selement (as Sel	mg/l, Mas	31 (4 B of APH 4 217 Fak in 2012)	50.91	0.05
13	/mc (as /1)	mg I Max	40 JULIU NI 4 PLIA 73P II da op 2017	0.02	15
14	Cadminum (as (M)	mg I, Max	3(1) (8 cf Ar8 a 2)* (black 2017	50,000	9
15,	Fead (as Ph)	ng t Max	APRA 23° 1'da on 2017	<0.0t	9.1
IA.	Americas As;	ing CMas	3034 C. of APRA 21º Fd4 or 2017	<0.07	1.2
12,	Cyanale (24) No	mp (Max	9501 CN E, Cutermane Welfud, APP 4, 205 Failing 7017	<0.02	6.05
ık.	Chairpan (gs Cr P)	m _R L Max	9111 Block APPIA 23 ⁴ (Basin 2017	<0.002	G _i D ₂
14.	Azione Delegato po MB43)	rigit, Maa	Amex. Kor. S 1934k	-70. L	ı
20	Projetic Compounds (as C-11-0-1)	if g UMax	8 3025 (Pap 43)	<0.001	11 003
21,	COD	пЫ	IS 1025 - Fact-SX	211	(SIII)
2?	(005) (as 0.)	MgT	S (4925 (Pap 444)	.3	1
27	Dosofwed Oxygon (av 11.)	mgrt, M. m	.55 3925 (Part-18)	5.6	4
24.	Of a Order	mg1, Max	< 3125 (Pap. 30)	٠l	0.1
25	Letal Celiform	(mpn 190m), Max.	15.1622	EC50,0	5000

litterpretation of results. Nil, Deviation from sext method. Nil.

*Complaints Register is available at Laboratory. CCBP

(G.Vhandra Muuli) Epytronmental Scientist

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Website : www.bsenvitech.com

CIN No. 11/74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Castamer : Nov. 2899 Seed Lamited

I No. 35.0 Urs Sample UND, k 700 in Sample (Metals)

NO. a 500 ml Wide mouth littles hattle for CACO

Test Report No. : BSFT-2026/VS-01827

Lah Cede No 219+63308 Date: : 2B 09,3021

Your Ruf

: Letter Distert (6.0) 2021

Date of Record : 15 05,2021

Date of Registration

15,04,2021

(3.00.000) Date of complementation of testing

Place of completion of leating 2F.09.2021

Sample condition at procipt Lound eld

Sample revied as roccived

Test Regulated

Date of Sampling: 12.80.2021

Quantity

PIRCHAR

1 No. 3 250 na Sample Pie Steinhood Block nor Mary Mastic Hautes : As given below

Location of Narantag: Name Nartl Rever Drive Stream

Project Name: Jajang Immore Mines

Sample Description: Surface Water Sample

Sampling Details

ampling Mecho#Procedure: 15 9175 Parill

Ceneral Environment conductors; the ...

Page:No. Lot L

TEST RESULTS

S No.	TeM Parameter	Unio	Yest Method	Result	Limits for Stream Water Standards
	Calme	Bazor Criss, Max	Ts 9025 (Part-4)	10	100
Σ	pl·	55:	18 0025 (Pap. 11)	6.85	6.5 to 5.5
j,	Trual properated Stituts	rigit	15.3035-Pan-17	62	((()
4	Tigal Despiyed Schilds	mgil, Mas	(S. 0025 (Pan-10))	14	1500
5.	(hiberide pro this	mgri. Yan	usi 3025 (Pan-32)	15	NIO
ń,	Iron (as Se)	mgil, Mas	3 11 B af APRIA 21" Edition 3017	⊕_2 П	20
1	Sulphanes (as Silva	ing'l, Mas	IS 1025 (Pan-74)	21	щ
a,	Pluonica (as E)	mg1. Max	4500 ± D, APHA 23° Edition 2011	0.18	L3
y,	Milatus (as NOrt	mg/L Max	4800-NOB UV Spectrophylametric Screening, Mohd	2.9	50
(0	Copper his Ca)	cogil Max.	27,1018 of APRA 270 Edition 2017	×0.02	1.5
li .	Manganovo ar Mr	mg/l	Stitl Is of Artica 215 folioen 2017	< 0.UZ	1000
D	Solowor (as Sc)	ngt Max	M 14 B of AP4 4 21 st Edition 2017	~0.01	11,115
12,	Zing ray Za)	mg/f, Max.	AP14 PC trainer 2017	9.02	13
R;	Cadment (as Cil)	mg'l Max	37 [1 B of APRIA 727 Februar 2017	<0.903	-01
IS.	Lead (as "b)	ing'l Marc	3 to Brief APHA 2)1 Tables 2017	-aun	it.r
lie.	Assemblas Asj	ing'l Max	3U4 C of APHA 23" Edition 2017	क्षण	4.2
12,	C) analo (ts CN)	ing'l Max	4500 CN E, Colorinett c Method, APHA 23 rd Edicor 2017	~0.02	0,44
15.	Chancon (as Cr.C)	mg/I, Man	31:1 B of AP(IA-2)* Februar267	40.02	0.05
14	Actional Detengoras (as MRAS)	ing/L Max	Aggs A of IST 1218	<0.)	1
25,	Phenolic Compounds (as CV0)(00)	mg/I, Max	15 3005 (Psit 43)	<0.001	0.003
21.	√0p	1061	15,1033 Pan 3s	25	100
22	HOT: (As U.)	mg/l	(N 3025 (Part-44)	4)
Ð	Disarlord Oxygor (as Oy)	not. Ser	(S 3025 (Pan M)	40	9
24,	Onlin Chease	pog/1 Alga	15x 5525 (Part. 5x)	SI	91
7.1	Total Coliforn	Sman/150mJyMax	18 1632	THE CH	5060

Interpretation of results. Not, Deviation transfest method. Not

"Complaints Register is available at Laboratory

(C.Chamera Mouli) Phone 19140 49783062 200 6806 Fax: +9140 49783063

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CIN No. 1: U74210TG (999PTC032358)



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

TEST REPORT

Name & Address of the Customer - New 1979 Steel Limited

Desc Report No. : 1191-112021-915-115-4

Lah Cede No 710090908

Dane of Receipt 1: 16.08, 807

Project Name: Jagang Jros (me Mines

Lance Dane : 24.06/21/21 Year Ref Letter Dailed 16,0K North

Sample Beschgenne: Sarlace Water Fample Quantry

. T Nick 5.0 Lins Sample

I No. a Still mi Sample (Metals) 1 No. 10500 will Wide Houth Glass hottle for D&G. I No. x 250 or Hample Fre Steinback Buttle Iso Micro

Picking : Plante Builds Test Required : As given below

16.09 2021 Date of conversement of testing 17,00 2021 26 (Michigan Page of correlation of realing Friend Jk Sample condition at receipt

Sample resied as recoved

Date of Sampling: 12 05.2015 Location of Sampling Kakamponi Vallet, up stream

Sampling Betalls
Sampling Methog/Procepture; 18 (074 Part 1

General Kniseanment randitutes ak .

Page No. 1 of 1

TEST RESULTS

N ₁ NB.	Test Parameter	t nac	Test Method	Result	Limits for Stepare Water Stepstants
I)	Colem	Hear Lints, Mas	8 3025 (Par. 4)	10)IIIU
2.	рH	1	15 9025 (Puri 11)	6.6T	K3 by k S
1.	ctic Suspendial Solution	ng'l	(\$.1025) Part (1	34	22
•	Tetal Disorbed Solida	mg/, Mqx	IS 3005 (Port 16)	12k	1500
•	Chlorate cas eff.	Πg/, Max	18 10725 (Pan-52)	9.5	300
٠.	Iron (as Fer	ng/, Max	31 H () of A 211A 29 rd Eduting 2017	0.72	50
1	Subharry (at Mis)	ng, Maxi	(\$3605) on-04)	24	400
ter.	Hudodo yas Hi	mad, Max.	4,500-F D APHA 21' Edition 2617	0.19	1,5
9	Nindes his Mary	mgd Max	4506-NOR-A LIV Spectrophotometric Screening, Mathy:	9.4	70
l·1.	Lopper (as Cut	mgC, Van	3011 B 107 APEA 215 Edd on 2517	<0.02	. 2
ıl.	Mangantscius Min	mg:1	9 (1 9 5) 9 (1 4 2) 5 (1 4 4 4 5 4 5 4 5 1 5 1 5 1 5 1 5 1 5 1	< 0.02	13 11 5
12:	Scienium [68 Se]	ngd, Mas	11 (4 () U* 4 PMA 23* Ed4 or 2017	<1.iji	n.as
1	Zinc (as Zr)	mgt. Max	4111 H or 4110 7 J 5 1 (July 6 2012	0.02	15
la.	Cadmium las ('V)	mgd, Mars	APIIA 20° Edition 2017	-# (4)	- 011
ıs.	Luad las Pb's	high Mas.	4 (1) ft 5/ 4 (1) A 2 (1) ft ft 5/	4II.1	a.)
	Americas Ass	ingil, Mas	3114 C of APIIA 285 Patron 2017	-30,00	пз
12,	Dyanior as 1%]	mg-I, Max	4500 CN E. Communitie Method APRA 21° Edd on 20-7	-4.01	5115
IK.	Papagron (act of	mgrl, Was	11.1 B of APDA 231 Datas 2017	4 0.02	nus.
Į V	Aranna Delagano (ao MBAS)	ngti Mas	Annexal North S 1724k	<0.1	
211,	Phonolic Chargostado (ao Cilli-Cill)	hgd. Var	(5.5025 (Jan+15)	<0.001	0.005
21.	10D	ing'l	15.3025 Tan 59	32	93 11 9
22	Inob (Act)/I	mg-1	5/9029 (Jan 44)	1	3
23.	Disorded Geography (2)	mgt, Min	(S V(25 (Part 18)	5.5	۷
24.	Opi & Citemat	rigit Max	.5 1035 (Pan - J9]	<1	4.1
25	Tiral Circ form	(mpn/199m) (Mas.	15 1622	EC#	1000

interpretation of results, Nil, flexistion from test method. Nil.

*Complaints Register is available at Laboratory,

GoChandra Moule I Engironmental Scientist

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CIN No. 4 U74210TG1999PTC032358

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Packing

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

None & Address of the Costomer . Mis. \$5% Steet Lamited

Test Report No. | 185 p. (/2021/WS-03978)

Lah Dodr No 200482009

Project Name Jajung from me Mines

frue Dea : 28 uv 262; Your Bet : Letter Daust to CR 2021

Serepte Description: Surface Water Sample of Linux 5 II Lite Sample

Base of Receipt 2 In Ht 3621 Date of Registration

1348,2021

Nic a 100 ml Sampa: (Meigls) a No. a School Wide result fillywherly log (24);

12.16.2101 thee of commencement of realing 24/56/2021 Base of crampletion of urvoing

No. a 250 ml Sample Pro Surpoyed Bank 7 at Macio or Same: Horizon

Sample tundities at receipt Found cik

Sample served as received

Sampling Details

Bair of Sampling 12,00,2021 Uncellop of Samphag: Kakarpani Vallah Iluwa Stetsan

Tool Registred 40 or given below

Nampling MathidsProcedure: 15, 1025 Part 1.

General l'agircament constitues: ch.,

there No. 1 of 1

TEST RESULTS

5. Na.	Test Parameter	Najis	Test Method	Rodi	Limits for Stream Water Steadards
ħ.	Colour	Hazon Loio, Max	15/3025 (Part 1)	10	350
2	μΗ	¥	18 7X9 (Pan - 1)	6.75	A.5 to 8.5
1,	Twal Suspended Solids	mg I	15 3025 Party 7	36	100
4.	Lota Olivady at Autops	ng/l Mus	Ps 3625 (Pan-Ha	135	1500
4.	Chik ride (as CI)	mg/l Mas	18 3925 (Pani-12)	9.1	600
9.	lum (as to)	ng/l Max	HILL Claff APHA 25 ¹ 1 disays (H12	0.26	50
4	Sulphuosi (a) 5(3))	mg/1 Max	US 3025 (Pan-24)	29	400
4.	Hinorado (an F)	ingl, Mas	4590 FD. APEA 201 Edition 2017	0.24	Lf
ą:	N Insect pos NIT (ing t. Max	4500 NRVB I V Specirophicamenia Successing Mechad	9.8	10
Ib,	supportación	ingl. Max.	AP 1A CO* Educat 7007	<0.02	1,5
ų,	Manguirosc as Mir	mg·1	71 TB of APIA 23 ² Edition 26:1	< 4.02	13 1
12,	Seleminis (as Se)	ngd. Was	APSIA 2014 Edition 2013	<0.01	4,16
IJ.	Ana (as Ar)	mgd Mad	71) (B) of APIIA 23 ⁻² edition 2017	6.02	15
14.	Padmigmilys PS)	mgd. Was	301 B of APIA 234 -dus 6 2013	<0.007	45.1
12.	Lored (se Pb)	mg/l, Max	APHA 23/1 Salition 2013	વાતા	IU
15.	Arvenic (a) Ash	ngd Mar.	7014 (15) APRIA 23 ² -48 ch 2012	<# doi: 10.000	9.7
r.	Cyanice (as CN)	mg/LMax	4500 CS F. Collyfreine Meihad, APHA 22 rd Edwen 2017	-36.02	0.05
14	Clientians (to C) *1	mg/LMas.	APPIA 111 B of APPIA 111 Edward 2017	<0.02	0.07
15.	Anone (Iringens to) WIIAN)	mp (Max	Annes Kinfry (1948	<4.1	,
162	Pleason Compounds (as Cs17/01)	mg/l Wax	IS 3025 (Part 43)	40.001	11 005
21.	13.0	n _Q /I	18-9023 - P\$H-54	36	1111
27	900 (x %)	пр'1	IS 2025 (Part 44)	5	
23.	Chesaleta Deggan pas Cy)	mg.), Vir	18 (1977 (Part 78)	5.5	<u> -</u>
34	Oil & Corona	rigit, Max	15 3025 (Part-79)	41	a. (
25	Total Conten	Cingre (SUMTAMus.	18/16/2	E (65)	5000

Interpretation of results: Nil, Deviation from resimarhod: N.1.

(C.Chandra Maatr) Environmental Scientist

'Complaints Register is available at Enboratory 42

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CIN No #J74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Luxioner - No. DOV Sigel Lipping

Test Report No. : BARTISTS LOWS 0.7600.

Itab Code No. 1: 210540004 . 29,98,2021 Invest Date

Date of Receipt : 4.04.2021

Project Name. Japang Irra nee Mines

Sample Description, Sunger Water Sample 1.50, 45.0 Los \$4.5pte Quantity

The A 500 of Samply (Metals)

LNo. 3 550 hil Wide north (iins bettle for Cart)

1 SW(x 250 of Sample Pre Stern and strate for Mann

Picking Flastic Bottley Ten Required . As profit below Place of Hegistration 15.00.7021

Date of curanessee ment of testing 13,09,7971 Date of completion of testage 29,78,2021

Letter Dated 15:04:2021

Sample conflicion at receipt hound ok

Sample tested as received

Year Hell

Sampling Details

Date of Samplings 12,891,2021 Sampling Mechan/Procedure 15 9025 Part Location of Sampling: Jalpa Nada up urream

Gereral Enriconness conditions ak .

Page Nu. 1 of L

TEST RESIDES

A. No.	Tesi Parameter	Units	Trat Method	Results	Climics for Storam Water Stoppgrifs
Ų,	Color	Hazen Lunk, Max	18 July (Pan 1)	10	105
;.	p.I	(4)	IN BUSIC PORT I	672	2,510 × 5
1	Total Suspension States	nie I	18 Awy 644-15	52	
4	Tour Dissolved Schilds	mg-I, Njas	15 2025 (Particle)	140	500
9.	L'Harporie, Cl;	mel, Mer	(N 402) (Part 32)	hS	900
	humacher	aget, Mass	31.11 m of APEIA 235 1 delices 2017	0.23	Şu
ų.	onthines possito	ngd. Mag	(8, 9025705m-24)	IH	401
н.	Hoyr de ray Fr	mgrt, Walk	4389-1-5 ArMA 215 Inham 2112	4.14	1.5
9.	Surpress NO d	mg/1, olas	4500-815-05 UV Specifications on Secretary Method	4.1	30
Щ	Cupper cas Cut	mp/c Mas	AH OP of API (API Little 2015	100,02	l ₂
H.	Мапрамуст 44 Ми	mg.	511 (11 m APDA 23 rd (300, at 2017	< 0.01	(Ger.)
	Natorium (ascSe)	mg Mag	J114 9 or MPDA 2Y 1 3 nor 2017	*46.01	0,05
3,	And ten 2nd	npl. Max	2011 Bloof APDA 231 hatmid 2017	0.02	15
4,	Cacomintactica	mgd, Mas	311 B of APBA 321 E loke 2011	<0.003	-,0,1
2	Load as this	mpt, Max	511 14 51 519 5 31 ⁴ Edges 3017	<0.01	d.
Le	Austriacids (44)	mpl, Min	\$114.1 of a Pha 2.05 Edices 2015	વ્યા.ሀ1	9,2
	Lyanide Jay (18)	ogyl Max	4Sett N.F.; abrumetra: Wellhal, APHA 75 Educati 2017	<0.02	0.03
F.	Chramon (4-37)	eig I, Mas	MILLION AFILA 2 JO L JOAN 1912	40.HZ	nes
2.	An Gree Detergency Las MODAS)	mgd Nas	Aprel A. J. 18 (224)	50.1	1
v.	Phonolo Disapropriy (ps C; HeA))	og I. Mas	7 3004 (Dan +1)	<0.000	0.045
	(00)	ny-i	15.7025 Part 54	16	100
7.	165 Stacilly)	ባለ:	15 9009 (Pact 44)	1	3
٦.	Dismont Osygunas (54	mg/L Min	19 5029 (Mare-19)	5.≤	J
4.	Uni & Chease	mg/LALax	IS 3025 (Part-39)	-51	n.i
7.	Total Coldorn	[mps. (Eq.)] Van	IS 1172	50	зила

Interfactorism of results. Not. Decourses from Ket in Procl. Nil.

(G.Chandra Mouli) C'EAS Environmental Scheller

"Complaints Register is available an Laboratory."

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Website Ewww.bsenvitech.com

CIN No. 1074210TG1999PTC032358



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

TEST REPORT

Text Report No. 9801-2021-WS 01979

Lab Code No. 210062108 Issue Dane : 24.09.202

Project Name. Alleng has one Mison

Sample Description: Surface Water sample Quantity at Na Abilitim Sample

LAU S MILITAL SAMPLE (Afocals)

Name & Address of the Contomor : Miss 15W Strel Languard

I Note: 2 500 mt Write mouth Glass hould for D&O.

I Not a 250 rd Sample Pic Ster lived Bottle For Wileys

Parking · Pigenz Donles Ted Required i: As given becow

Date of Receipt : 16.08.2021 Date of Registration 15 IN 2021 Date of commencement of testing 13,09,2021 Dare of coraphetica of essing 24 10 2021 Sample condition at recept hound uk

: Ferrei Daied 16,08,2031

Sample tested as recovered

Sampling Details

Date of Sampling: 12.08.2021 Location of Sampling: Jalpo Nadi One a Steram

Sampling Welhod/Procedure: IS 2025 Pan 1 General Environment conditions: ph

Page Nu. 1 571.

TEST BESTLETS

K Nu.	Rest Parameter	Ciella	Test Method	Hensell	Blimet for Spean Water Supplierts
N	Colour	Hazen Dista, Van.	15 1023 (Part 4)	19	дио
2	h,.		15 2025 (Part - 1)	6.77	2.5 la 4.5
5	Local Suspended Solida	mg/l	(S. 902 S. Parc. 17	54	1
a,	Folat, hepitosi Schie	mg I, Max	(N 2075 (Pan-16)	142	1 × 0
1	Chloride (45 Cl)	ng I. Max.	IS 1025 (Part-32)	19	000
h,	Train [as by]	ing I, Maz	VID Not APIDA 31º EJA (m 3017	ft 25	ж.
G.	Sulphates (as \$6.6)	regrit Adam.	15 1025 (15an-24)	20	490
B	Placrate (as F)	отд'С Мах	4500 F U; A 441A 331 Edition 2017	0 16	1.5
	Nurses Jac NII i	ngol, Max	4500-reft-fi UV Spectropletome.sic Secretary, Mechael	4.5	4)
Iù.	Серрит на Син	mg I. Miss	21 [1 B of APEA 23" Edition 2017	×6.02	1.5
u.	Miungarove av Mir	ing/	910 F 60 APRA 23 ⁴ Polices 2017	< 0.02	-
12.	Salmingo (as Set	mg I, Maxi	21 4 B GF AP4A 33 ⁴ Pdwan 2017	e8.01	G.p5
13.	Zinc (as Za)	ng t, Masi	9111 IC 61 APRA 23 ⁴ 1 Jalon 2012	0.02	17
14.	Cagnium (as Cd)	ng l. Ma	21 1 8 6 F APHA 13 N Februar 2017	<0.063	-21
15.	Load (as Ph)	ing I, Mas.	91 1 H SI APPA (14 Up) 95 2011	<4.111	0.5
11.	Articles As	ing I, Van.	2104 C of APHA 23 * Februa 2017	-31.01	92
G.	Cyunide (as CN)	ing I, Wara	4900 CN is, Colin metric Montal, APITA 235 Pathen 2013	40.02	5'uz
k	Chiterram yas Cr. N	ng I, Mas	2011 B of APIA 253 (Amos 2012	41.40	0,05
0,	Amona Georgesa- Rei MBAS)	ogt Mas	Amea K of 15 (324)	<0.0	I I
P.	Phonolic Compounds (20 (215))))	mp I, Max	IS 1025 (Pan-43)	<0.00H	0.000
11-	č119	ng/l	15 3005 Pag 58	16	570
22	400 to 00	mg/l	18 m05 (Pag 44)	5.	3
21	Dissolved (Trygol) (24 (b))	ojel, Mir	15 1025 (Pan-3k)	5.5	1
21.	(SLA Greate	mg". Max	18 100° (Pan 39)	<1	0.1
24_	Legi Californ	Lerps, Effectly Max.	15.1622	10	5000

Interpretation of results: No. Playation from test method. No.

*Complaints Register is available at Laboratory

Abstracted Sighator (G. Chandra Moule) Environmental Sciencel

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CIN No U74210TG1999PTC032358

lab@bsenviteon.com, info@bsenvitech.com Website www.bsenvilech.com

JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

AUGUST - 2021



Recognized by MoEF & CC, Gol: 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
13	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.,



tlab@bsenvilech.com, info@bsenvitech.com

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

JAJANG IRON ORE MINES

GROUND WATER LEVEL REPORT

SEPTEMBER - 2021



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

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

8.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
5.0	Dug Well Jaribahal Village	3.03
6	Dug Well BIL Siding	3.27

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

Authorised Signatory

*Compleints Register stavailable at Lahoratory

* lab@bsenvitech.com, info@bsenvitech.com Wobsite I www.hsonvitech.com C N No. 1 J74210TG1999PTC032358

JAJANG IRON ORE MINES

SURFACE RUN OFF ANALYSIS REPORT

SEPTEMBER - 2021



Quantity

B.S. ENVI - TECH PVT. LTD.

Recognized by McEF & CC, Gol: Valid upto August, 2022

TEST REPORT

Name & Address of the Customer : Mis USW Stock Cineto

Trail Report No. : Box 1 2021-WS 0.95m.

11 June Date: 250 (2001

Lab Code Na 7.16.95409 : 90.09.252

Oale of Hereigh (1931) (201

line of commoncement of teshing

Javang Blear

Your Ret

Project Name, Japang Irun ore Mines

Sample Beschpoun, Six lace Roy - IT Water Sample

: I No. x3 to also Sumple. I have a Soft of Shample (Mataty)

I No a 501 m. Wake month false historian (186) I No. v 250 nd Sample Pre Stanlards (Ballin For Moon)

Packing college parters as Tirst Brquired in Asignar helene Date of completion of testing

75 (0) 2002 01.19.2020

Sample candinon ar receips Sample leated as received

Here of Registration

Listudius

23/09/25/21

Sampling Details

Date of sampling: 22 (19,2938) Strapling Method/Procedure: 19 2035 Part I

I ocupion of Sampling, Water Check Dam near Assana Rudway Sliding General Environment conditions: ok .. Page No. 1914

TEST RESULTS						
A. No.	Test Paranteler	4 nite	Test Method	Hexelt	Limits for Stream Water Standards	
L.	Colcus	nazer Chris Mac	15 Ju25 (+a (-a)	10	900	
2	ρH	E.	13 1022 (Parist)	6.51	0.5 to 5.5	
1,	Total Suspension Samin	വൂ1	1S 7025- Part-13	-JH	· ·	
4	Total Physiolegic Solids	mg/l, Max	13 1025 (2015)25	215	1500	
5.	Chamile face 1:	mpl. Mčs.	is 1025 (met-32)	15	: (K)	
n,	1.40 ras het	ingd, Max.	2" [1, 0 o] 21" 4 23" Edition 20"	n. 10	50	
7	Sulphoses (a) S(I) i	mg/l, Max.	15 1025 (Harrison	25	100	
К	Phonda (as F)	myd, Max	450941 D ARHA 2224 Inform N.17	II.20	L.S	
9.	Millates Las Ni i	ngs, Ma	450G-NOV-B DV Spectraphetrostor Seconda Mathed	Į R	NI -	
K_	Copper fac Ce I	myd, Was	3. H. B. of APHA 235 Edition 2013	il.fi3	Li	
1	Manganese at Mar	ırμl	5 H JI 51 5 PHA 205 Titl box 2012	U.U2	lais.	
12	Selerom (as Ne)	ngt Ma	31 (4 H of API-A 23 ⁴ Februar 2012	×0.01	1:05	
P.	700 cgs 70	mit total	9119 B 50 APHA 27 Public 2012	11.64	I4	
L	Calmium (88 f.4)	ngt Mas	SEL III S.' APHA 21 ² (ginar 2011	alt,IN3	d,t	
IS.	Lead on Plat	ng/LMas	2000 B of APID-201 Litting 2012	<0.01	n.	
lá.	Assertic (as As)	np1 Max.	\$114 C. 86 APDO(312 Epimer 2017	40.00	4.2	
i:	Cyan dv (as C7v)	np1 Max.	(2001, N.E. L. commerce Method, 2014 (21 th 1.4) cor 2017	<0.02	0.05	
.x	Chromium vas Cr (1)	ngT Mas	2111 D. ot AM1A 28 ⁴ (obtain 2017	<11.02	5.05	
n.	Amount Hereigener as MHAS;	digit, Mys.	Annes, Klaf IS 1924K	વા	I	
n.	Phonolic Companies (as CSI-O I)	mg/I Mos.	15 202 (1501-42)	<0.001	2005	
11.	(0)	lgm	PS 100% Pap. 4X	JiS.	1450	
e.	9002(200)	m _E ,I	.5 3/25 (bar)=40	6	1	
15	Dissolved Diorgental Coli	ngt Mu	-5.7025 (Part 1N)	5.1	1	
21_	Full & Lyncisc	mgd, Alav	15 302 a (15:4-3v)	41	ii.	
٠.	Total Culiforn	imple (Panit), Mies	BR2D TECH	60	N . Som	

Interpretation of results: Nil, Devizion from rest method. Nil

enthorized Signatory (G.C handes Mouli) Environmental Scientisa

Complasts Empirime Reportable at Laboratory

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Websile I www.hsenvitech.com. CIN No. 1074210TG1999PTC032358

JAJANG IRON ORE MINES

SURFACE WATER QUALITY REPORT

SEPTEMBER - 2021



Quantity

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Test Propert No. : DSE: (2021/A-5-0090) Larte Credit (No. 212659910

Innue district +1206-0021

Project Name: Jajang from two Mines

Sample Description: Surface Water Sample a TNica Value Sampa

Name & Address of the Customer's Adv. USW Stort Limiter

Library Strend Sample (Margh)

NS & 900 inf Wirks neigh Blass had to for HWG. They sight in the American Barrell of Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) and the Month (1985) and the Month (1985) are the Month (1985) are the Month (1985) and the Month (1985) are the Month (1985)

Packing As piver below Test Required.

Saur Ret : Limited that of COMP (2021) Date of Receipt 1948 IN 2021 Daig of Registration 01.74.2021 100000001 Date of commencement of testiful 13.09(2021) Date of exinplettun of resting Loand 1k Namphe gamentem as receipt

hample broked as received Sampling Details

Date of Sampling, 00:09.1918 Lecation of Sampling: Buildeani River Lastream Sareging Method/Procedure: A 9005 Pan 1.

General I mironment conditions: 44.

Page No. 1 of

neer beken re

S. No.	First Parameter	Limita	Tell Melled	Result	Lipaks for Surgapa Water Standards
I.	Cultur	lower Lindy State	18 1028 (Rec.4)	I e	900
	,il.	18	18 (00) (150-11)	6.72	10,5 (4.5)
	Nur 9, secolol folias	rig l	18.5/05 Pag 15	24	150
J.	em, Dissolver, Solidy	mg I, Van	18 (903 (Bar 18)	165	1706
٧.	7Det de Jas Cl.	mg1, Van	18 2025 (Pan-32)	15	160
۸.	tion (and e.	mg-t. Vac	11111101 A211A-22" I da or 2017	0.31	70
	Sulphase has SOci	mgd, Max	(\$3623799)(24)	17	લ્યા
	Pricesta (as fit	miyl, Man	4500 (11), 58154 (53° (45) to 2015	0.15	1,5
9	Nursico (go Alle)	mod, Var	4530 Mily 3 UV Spectonkolametric Surceiting Method	9.0	50
ng:	Cooper (19 Co)	ing , Min	2111 U.c. 4384 200 F/J par 2017	64.02	1.5
E.	Stangarese as Ma	nie-l	9111 H of A 11A 235 Letion 2017	80.02	6 31 9
(%	Selenijo (a. 97)	mg/ , Mis	7114 glion April A 33 ¹ Conton 2017	<46.01	4.25
B.	Zinc to Zint	ng/, klaz.	9111 H ov 4294 71° 1 Hans 2017	0.03	18
14.	Colmoro Nis Cida	ar, Mp.	3111 H v** A 20 A 20* tel for 20 a	<0.0H3	·-0,
15.	, rain is PN	erg Max	30 H H ↔ 4 21 4 23° 1 d not 2017	400	11,1
la.	Asserticities Aut	ng i Maxi	3014	<0.01	11,2
12.	Construction	orps . Max.	4800 CN F. Celebrone oc Mechie, APITY 20 ⁴ La Linc 1917	eli 112	2,05
В.	Communicación o	ng UMaxis.	SELLE & APPLA 25" gditor all 2	<0.02	5005
PL.	Apone Chelangeris (as NIBAN)	π ₁ , Mp	A078A, C of 18 11248	<0.6	ı
25	Phonoir Cooppoints (bs ff (1901.)	ng l Max.	38 H02 (15m-63)	<0.001	nulhs
	C30D	pp/l	IS 3025 - Isin-34	14	888
222	1800 (1811)	ing I	19 J035 (Reg Of)	8	1
9.	Unwilled Crogostian Cyl	ση, 1, 5 m	18 HI25 (Be) (34)	5.2	4
24.	134 & Lipsger	mg I Max	is possible str	٠1	2.1
	Letal vintika n	Lupa Oblata Mag.	IS:1622	CH)25	5000

Interpretation of results. Not. Deviation from (e.g. method: Nil.

Apphorized Sign C/G.Chandra Mouli) Environmental Schettlet

*Complaints @adaha.eagailphie.ad I shoots C B A

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lah@bsenvitech.com, info@bsenvitech com Website I www.bserryitech.com/

CIN No. 1 L74210TG 1999PTC032358



Quantity

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

Asswe & Address of the Contoner: Ma. JSW Steel Limited

Last Report No. 1 #SET-2031 W.5-01958

Lab Code No. 210639700 Issue Daw 11,242101

Project Name: Jajung Iron two Mines

Sample Description: No See Water Sample : Nacy d I me sample

Lives a file of Simple (Metals). Cherne fill of Watermouth Glavehor in far (180)

Thirty Chick and Sample are Secret are Health for Macro-

Cacking : Plyon, Holling Test Regimred

in Asigned Meldin

: Lette: Date: (0,09,232) Your Brit. Daze of Buckeyst 1, 10 - 20232 GR 119.2001 Date of Registration 0004232 Date of construction of testing (7.09.532) Date of completion of avoing Nample condition at accept Laurad ek

bannule trates as received.

Sampling Details

Date of Samobine: 40 04,2021 Location of Sampling Reservoi Hine: Devositions Sampling Mechage Consulture: 18 1025 and

Ceperal Equipment condumes of a

Page No. 1911

TEST RESULTS

Nu.	Less Pargmeter	I MI E	Iral Method	Kowili	Limits for Street Weter Standards
1	Lebur	Hizze Unis, Max	(8/100 s (Pan 4)	15	\$00
2	50	8	IS 1023 (Page 17)	4.H2	6,5 to 4,5
4	Lita' Suspended Solds	ngel	PS 1075 Parts 17	45	(77)
3	Leaf 2 to high Solids	mg4 Mas	(S 1025 (Pan 16)	165	SEA
9	: Ek ride po (*I)	ing I, Was,	18 (02 × (Pan (37)	22	Allo
۸_	frontas (2)	ngd Var	2011 3 of APIA 27 Februari 2017	0.26	50
-	Suprate cashing	mg/l, Max	1S 2023 (Part 24)	40	aus
	Objectos!)	ngd, Mys,	4405-F11 4 914 23" Estine 2017	0.26	1,5
	Virtality as VOvi	ngd, V ya	4 WIENIE-II L V Section photograms Sections - Mechan	14	40
W.	Copper to Cur	mg-1, Mass	71 Fit of ABIA 25 ⁴ Litting 2:17	<0.02	1,5
11	Манданиче в Ми	ing:1	7111 H (4) A14A 33 ^M Editor 2313	< 0.02	(34)
2	Selement as Set	ingel, Mass	7014 H of A 915 25" Let at 2017	<0,61	1015
is.	Zingi ge Ziri	mg , VIna	2111 Q 17 3P (A 2) ⁴ 1 d (m 2) (2	1004	- >
ŀL.	i adminimas (d)	ngs, Mas	OHRON ATRA 20° Dissin 2010	<0.003	- 9
1	" (a) (as Ph)	402 ft Max	2111 (8 p.) at A POA 2011 Inform 2013	eli.h	51
۹.	Appenie (a) 48	my I, Stax	914 C of API-A (S) I daym St -	40.04	357
1	Leanize to U.S.	myd Stax	1,905 CN L. Calermetre Verkid, APLA (1771) gallin 2017	40.62	0,05
ı.	Chapagiagos Pals	mg1, Nos	7111 B M API/A 232 Tuleson 2017	41.61	0.55
6	Anome Deterceny (as MILAS)	mgd, Mas	Aido, N. al 19 1 9245	50.1	1
۸),	Phytolic Componers (as C.) (301)	ng Max	(5.3625 (Part-47))	<0.000	c,095
9	600	mp-	18 300 8 - Pans 38	55	- 197
77.	300 (a) O ₂	1p.1	15 3025 (15)(-44)	9	-
21.	Notebal Dogger as D ₂ :	mg I, Man	IS NOT CHEM BY	5.4	1
ч.	CVI & Greave	orgit, Mar	15 YOS (1956 39)	41	IU
25	Scial Pelilmin	Loops, POlitaly Max.	18 1522	EC/485	5000

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

emmorized Signatory Chandra Mauli I Egyiconnesiai Sc-ensel

*Comptavity Register is available at Laboratory

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CIN No 1 U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Consoner: Mo. 1898 Steet Limited Test Reptat No. 1881 "TOTAL AND IN

Lati Cade No. 210x5501rv Basic Date: 47JH 2021

Project Name: Japang Iron ore Miner | Vone Ref | (1 gree Hard No. Prince Name) | Date of Heesing | (1 gree Heesing | 1 gree Name) |

Sample Description: Statistic Water Sample
Quantity: 1.1 Security Sample

Date of Registration 9009,902

No. 5, 500 mt Sample (Mary 6)
No. 5, 500 mt Wide month (No. 5 mt let the No. 5)
No. 5, 500 mt Wide month (No. 5 mt let the No. 5)
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No. 5, 500 mt No. 5)
No. 5, 5

Feeling Alegarity Super Professional Transfer of Marie Strong Confession of Confession

Sample resort as decrived

TEST RESULTS

S.	Few Parameter	Unios	Test Mathed	Result	Lantis for Stream Water Scandards
60	Colour	Histor Dilla Mas	18 2025 (Fam. 4)	Is 2025 (fram 4) ut	
	r I	21	08 July 8 Page 11	6.72	53 to 43
<u>. </u>	Total Suspended Solies	mgrl	14 MOS (Mr. 7	51	100
•	Juan Bearing, Suids	ngd Var.	18 902 v Panellol	116	190
<	Chlorele (as Cit)	ag4 Max	(\$ 2025 (Pat-12)	ru	A00-
h	Inor ias her	agd Vac	APHA (2° Edina) APE	●20	द्या
-	sulpraise rue styl.	agt Mas	1S 2025 (Part-24)	15	-III.
.	Euvect81)	rig L Max.	4500.5 (0) A Frito 20 ⁴ (Attion 2012	●25	1,2
:	Strategras 800	rtg I Mae	1540 No. 5 (A Section-Academic Security Mediat	8.1	50
J,	s repper las Corr	ingt Max	311 (H. O) 5 (HA 23) (clino) 20-7	<0.02	1,5
ij.	Maneanos as Mn	roy 1	10110 of A 204 25° senior 70-7	40.02	(#)
4	se carum nas Sej	orgil Max	APHA 25° odino (20.7	लावा	suite
3.	Zmc (i.a. Zm	ng Lybje.	111 (1) et A 91A 75° (quar 70-7	9.04	15
1,	vadimine (as fal.	mp1 Max.	10-19-of A20A 23 ² cutios 20-7	<0.903	191
200	Teauta-Phi	ng1 was	A STATE OF TERMS A STATE OF THE A ST	< UB	21
۹.	Anacian par Awi	Rg I Man	11 ± C × C A2 (A 23° Lating 20.7)	<0.01	4,2
2	Cyanide ins CNI	mpt Mac	45021 Y.E. Patromasus, Methad APHA 73 ft to time 200 c.	40.02	50-
Ś.:	Clingma militar Collection	ng1 was	APHA 201 gama 2012	<11,62	ngs
١,	A tiona Deletyros pas VIIIAS)	rip I Mas	Aures, Kof. S (1248)	eff.a	- 0.
1.	Picrofic Compounds, gas Cst (2/1)	ng/Lwas	18 2025 (190-15)	<11.001	0,905
1,	: 101:	10/1	5 3.25 Part 58	15	 .
3	1100 ta (0,1	ngt	15 7025 (Pan 14)	2	١
Э,	Deschay Hsyganigs Orl	nig I, Vijti	.8 (60% (Pare - 98)	56	-1
ı.	Or & Cecuse	mp.t Alas	15 2025 Part 201	41	ű.I
٠,	Lig Prinaru	(mps, LPslm), 54 ₂₂	IS THE CONTRACT OF THE CONTRAC	15	3000

Interpretation of results. Nil, Occupion hope or method, N.I.

SI Ann's Road Tarmaka.

Authorized Signatury (G. Chandra Monli) Environmental Schoolier

'Complaints Register's available of Labourbay

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Telangana, India CIN No. - U74210TG 1999PTC032358



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

TEST REPORT

Name & Address of the Compage - Mrs 1836 Steel Jambied

Lyo Report No. : BN 5, 12021, WS-03905

Lab Ledr Ne. JUMSPIN

Project Name - Lijung Iron ore Mines

Baser Dave 2.dw.:021 Voter Hed : after biol (9.09.202).

Sangle Bercolption: Sarfa a Wore: Sample

a CND ASC LIP Sample

Design of Regards 1999,007,007 21.09.2021 Their of Hegitaration

Quantity 1 No. a 500 mi Saniele (Metals) 1 No. a 500 mi Wale morth Class bottle for 1780

HEGS 2021 thate of enumerocoment of testing Bate of completion of resting (2.69, 202)

I No. a 250 m. Sample Pot Stoilhaed 9,0% For Mick. : Play e Builty Packing Test Meguired a An appear being

Sample condition at corrept Lagradick

Sample listed to received

Baro of Sampling: No 49 2421

Sampling Details
Sampling Method/Procedure, IS 302* Fee 1
Sampling Method/Procedure, IS 302* Fee 1

Location of Sempling Suns Sadi Holer flows Stream

General Enseronment canditions lok a

Page No. 1 of L

DEST RESULTS

\.	Lou Parametr	l. mts	Fred Mechod	H. şulı	Lamits for Stream Water Mandarth
1.	Lehor	Jazen Linta Wasq.	(8 9005 ("Vp.41	16	100
1.	bl.	45	(\$30\$ (Pass II)	6,90	165 to 4.5
L.	Tory Supposted Salets	ng-l	[S 1025 (25n [2	75	-
L	fusis Disus var Solids	argit Mass	Is 3025 (15-5-10)	160	1500
2.0	Official to Ch	mel Vas.	IS 1005 (Part PC)	12	180
ė	Ironnas Fen	ngt Vas	A 1 15 at A 1 14 z f 1 a line 2017	4.15	Q)
1_	Supliates as 507	npl. Vac	18 (028) Pan-24)	24	3741
50	Homorias hi	mel, Maria	4500 ° D APHA 25 ° Educo 2013	4-30	1.3
	Semeste Sila	mgil, Was	1500 (C). II 10 Spectrophotofreilo. Screening Method	3.5	W.
19,	Copper (as Car	ngd, Mis	1111 1 of 3111 277 140pg 2013	41012	1.5
ųÇ)	Mangarete as Win	nor I	1111 (Follow) APITA 23 rd Talmion 2017	< 0.03	-
ih.	Selement (at 83)	ngd, klin	1[12 4 a) APIIA 23 ⁴ (data 2513	< II.01	Cut
LJ.	7 mm (24 7 L)	age . Mas.	APHA 73 st Laguer 2011	0.002	15
H	Cadoniore is Cilt	hips , klas	2110 H of ArtHs 23 ¹ Edited 2017	<0.0 0 3	·C,1
ış,	Low tes PM	rigit Max	7110 H A APITA 20 ⁵ Litting 2015	AU.01	C,1
IS.	Arsenia (as Ast	wp/LMpa	11 (4.0° 5" A 21 A 20° Edder 2007	<0.01	99)
r _e	Coordinates CN1	med Max	4800 Feb. Commonsol. Marcal APDA 21th Lating 2017	-16.02	lods
pc.	Chomomorker's	ng I Max	Milliof A MA CE Lating 2017	-0.01	0.03
12	Americ Dataparts as MBASI	iq., Mo	Ames, K 5105 1124k	⊴0.1	(Ø
25.	Chaps has Copoposited as Political In-	ngd Max.	19 (0%) (7a* 43)	48,001	0.705
21	CO.2	ng l	15.1905 - thor 54	29	177:
H.	1075 (841),1	ing I	19 3025 (Pan 44)	3	
21_	Disout-ed Congenus (C)	er Mu	Is missioner Gy	4.5	1
и.	- Oil & Citass	nezh, Mak	IS 3025 (Pan W)	٠1	II.
25.	InalParlem	Tripot Oder - Maga-	VINI TEO	R 60	5000

Interpretation of results: Not. They atmosfrom test mothed, Not

athorized Signatory M.C.Chandra Must j Environmental Scientist *Complaints Register is available at Laborators

4" Floor, 'AMITY VILLE', 12-13-1270/71/73;

St. Ann's Road, Tamaka Secunderabad • 500017,

Telangana, India.

End of the Report ++++
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CIN No \$ U74210TG1999PTC032358



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

TEST REPORT

Jame & Address mishe Cosmoner: NAs 25% Sheet Limited

Peyr Report National LPD21-WS-01WS

Lab Lade Ne. 210657409

Project Name: Jajang Imajuri Mines

Januar Dane :1706.2021 of any Harriston IN-19-2021 Your Reb Pape of Receipt 108 of 12021.

Nample Description: Nutlace Wassi Sample 1 SulyState to Sample Quentity

LNu v Sillimi Quick (Metabl.) I No. 5 505 in Wide point Silges house for Okto

UNION 250 to Sanish Pic Stood and Donda for Micro

PacAling , Plastic Bonks Tust Hopelroot Angelen below

03-69-2021 Page of Repairmon [500.2011] Date of commencement of tenting Date of completent of testing 1510-2021 sample condition as excelled amend ok

Asimple tested as received

Sampling Details

Date of Sampling: 166.09.2021

Lucation of Samphay: Katarpani Nation op stream

Sampling Method/Procedure, 14, 9005 Pan 1

Central Environness, conditions: de

Page No. 1 of 1

FEST RESULTS

K No	Cost Parameter	1 alia	Tesi Meihad	Reside	J.Inux for Sinson Water Standards
1.	Cenn	Hiran City, Mes	(S 3025 (P rt 4)	PU	101
2.	pH	30	18 102 s (Panel 1)	652	A.i K·B i
١,,,	cia Suspendial Solids	n _k T	[S 2075, Pan 17	21	
1,	Titta Unisolved Solids	mg t Max	IN IIID Scientifial	125	15/81
۲,	Charage (s.Ch.	met Men	IS 1925 (Pan-70)	9.1	1601
A.	ron (a) to.	neg't Max.	THE Ball ATLA 23' Library 2011	0.20	50
4	Sulphures (as \$16)	ing CMes	18 1023 (Part-24)	26	401
	ducade (m.)	mg t Max.	4500-10, APDA 251 (2005) 2017	0.30	1.5
c.	Series de Mod	ng: Max	-1500-NO)II UM Securepronument; Scheening Method	91	40
m,	Cupper (14 Cit)	nig : Mas _i	APHA 27 ⁴ P3006 2017	40,02	1 <
щ	Vargantse as Mi	reg I	APHA 38 (Arims 2017)	< 0.62	
12,	Segmon agran	ngs Max	104 (O APHA 281 Ecoco 2017	40.60	0.05
Di.	Zurchas Zul	mas Alac	CHS and BLP STATES	0.412	15
н,	Collinguage CVC	n ₁₂ I, Mas ₁	2011 U. of APITA 2015 Edition 2017	<0.000	vG1
15	, emplay thi	my L Mass	911) II A: APDA (15 10) an 2017	-0.1	0,1
ν,	A sent far As'	ng L.M.,	MHAN OF APHA CYC Cild on 2017	<: a.ii1	00
175	Change has (15)	med Mary	45001 NT, vinter ostru Morrod, APRA 217 Zibran 2017	<1.III	1018
D.	Chamma e (as 11°)	mat. Mar.	7111.9 o/ 4.914.23° 1 Janjo 2012	< 0.02	1947
G.	Action of Distoración (25 MRAN)	ipgel Maye	Areiex, K.of (5.12248	વ્યક્ષ	£33
2.	Preno i Priognando (p. 1211.011)	mal, Mas-	IS 3025 (Pvy) 43 (50.00]	0.007
٠.	COD	e1gil	18/1023 - Part 55	35	152
22_	aco (sc C)	min	[5 3025 [Part 41)	5	1
27	Disulval Osysonas Cyl	ng I Min	18 (0.25 (1254) \$4)	5.4	-1
24	Splick Greene	mgd, Min	IS 3075 (Fig. 45)	٠.	Id:
25.	Trial Californ	rups 160 nlt Mar	NIP //	CH ⁶⁵	She-

Interpretation of results. Nil. Designation from test met fed; N

*Complaints Register is available at Laborator

mined Signatory (CChandra Shudi) Environmental Scientist

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Website floww bservitech com

CIN No. \$U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Castomer : 60s. JSW Seed Limited

Test Replace No. 1 4855 (2021) WS 16000

210659108 Laft Code No. Inser Onto 17.09.2021

Your Hyr

: Lenzy Owed QUIN 3021

Penjace Name: Jajang Irmaner Macs Date of Receipt 109 US 2021

Sample Description: Surface Water Sample Quantity 1 No. 30 Ditto Sample

I No a 590 ml Sample (Metaba

No. A 500 oil Wide near his loss bonte for Oacid.

I No. x 250 oil Sample Pre Stor lized Bottle For Micro

Pecking Mastic Bordes Test Required ... As given below

(9.49.257) Date of Registration 10/49/2071 Date of commencement of trailing

17 (6) 2001 Date of completion of testing Expediate Sample condition as sereign

sample legand up received

Date of Sampling, 06.09.2921 Location of Sampling: Kukarpum Natlab Down Stream Sampling Details
Sampling Method/Procedure, 25 5005 Pan 1

General Environment conditions: et ...

Page No. 1 or 1

TEST RESULTS

S Wg.	Tau Pérenctée Linius Tási Method		Result	Limits for Arrest Water Vigniferds	
I _n :	Cour	Hazer Units, Max.	IS 4025 (Part-1)	10	1147-
2	ρΠ	¥2	18 (107° (Part-11)	6.80	1-5 to 4,5
L	Total Ni spensed Soline	mg1	15 2025, Pan-12	32	(44)
€.	Otal Disorbert Solids	mel. Mix.	18 JUSE (15 (+16)	1+9	500
5	Chande (acc'l)	mgA, Max	18 1078 (Psyt-31)	9.0	SHO
6.	uon (as Pe)	mgt, Mix	APPA 27" Tourn 2017	0.45	50
3	Sulphales (as 907)	mgil, Max	IS 3025 (Peze-24)	36	4110
Ь	eluci de jas FI	met, Max	4500 F D 4PHA 731 Fd4 op 2513	0.14	1.5
0_	Numerous Milel	mgd, Max	4500 NO ₁ B CV Steamablementing Sources Method	9.2	50
10.	A coper (as kin)	mail, Max	111) B of 5,2HA 23° Edward 2412	AU.U2	1,5
L _e	Matgatese as Mt	card	001 (Cold) A 2014 (CV) Edition 2017	<: 0,D2	770
12,	VC (2011 00 185 54)	mg/l, Max	4014 B of APHA 23" Edikun 2013	<0.U3	0.05
IJ	Ζιπ μα Σιπ	mel, Slax	301101 of 4794 237 1 decog 2013	0.02	. 5
н	Cadraon (scCdl	arga, Mass.	101 (3 of A 46 A 23° Edicin 2012	< 10. 110.3	20.1
IS.	Josepha Phil	mg/, Max.	JHT 1 of 43HA 28° 1d ma 2013	<i).1< td=""><td>2.1</td></i).1<>	2.1
la:	Advertise has Alia	mpf . Max	1114 C of A 2 4A 335 Edition 2011	<#EIII	512
n.	Cyatide (as CN)	Opti. Max.	49801.N F Deliminating Winterd APITA 25 rd stitlen 2003	<0.02	1015
IK,	Cleonium (as Cr ⁺)	шр., Мах.	000 0 ml A2NA 2X1 Educin 2013	< 9.02	0.45
Lv.	Among Oceangons (as MISA5)	a git, Mar	Arnes, Knf IS (324)	-a), i	I
20	Pacinific Corponets (as Calla01)	nig/, Max	5,3025 (Pan 43)	<0.001	9,003
71	(100	0,71	18 3025 - Pan-58	35	(mar)
22	HEID Jac. (1)	np1	5 3025 (Part 44)	4	,
21	Dusplyed Oxygor (as 11)1	ing l. Vir	(9,5025 (Pgm 36)	5.0	4
24	Oil & Grigor	nigit, Mass	35 225 (Part 39) T.E.C	120	ĤΙ
25	Total Colliforni	(mpre KOmil) Mass.	18** 622	Je.	5000

Interpretation of neares, Nil, Deviation from test method, N.1.

(G. Chandra Moule) Environmental Scientist

*Complaints Register is available at Laborator B.

4" Floor, "AMITY VILLE", 12-13-127/871/73, St Ann's Road Tarnaka.

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CIN No. 1/U74210TG1999PTC032358



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

TEST REPORT

Name & Address of the Captivator - Mrs. 25W Stool (Junio)

Test Report No. 1 BSF 1/2021/A S-01948

Link Code Mo. 210659209

Penject Name: Jajang Pros ore Mines

Groc Date . 11.09.2021 : Letter Dated 09 09,3021 Your Ref

Sample Description: Serince Water Sample : I No. 657 Ltd Sample Quantity:

Date of Receipt : 15-10-2021

I No. a 500 ml Samps (Metals)

IN 00 2021 Date of Regularities

UNUIL SMI int Wice most bolass build for O&O

10/09/2521 Date of commencement of sexting Date of completion of sesting 17.49,3000

1 No. a 250 m. Swippe Pro Stenliged Bottle For Manu Packing : Play 6 BATHS Text Required : As ereal below

Base of Sampling: 4649.2012

Consists of Nampling Julya Nadi es viceam

temple confinencial executed Lound of

Sample rested as received

Sampling Details

Sampling Steinhed/Procedure: 15, 912 f Pan I

General Lardrenment canditions; ak .

Page No. 44 I

TEST RESULTS

5. W.	fau Farameter	Park	Test Method	Kesale	Lintas for Stream Water Scandards
10	Colour	Hazar Laus Mex.	IS 1025 (Page 4)	ţu	400
2.5	μΗ	#	18 2025 (Part 11)	4.30	5.5 (0.2,5)
1	Forth Suppled Solids	iuft I	IS 925-Pat-11	25	140
I,	Crital Descripted Satul-	ingil, Max.	1S 2025 (Part 16)	140	450
4	Charge (vs C1)	mg/l Max.	(8.3023 (1986-12)	25	AIII
6	from any he's	ngt Max	1110 B of APEA 23 ^H Edition 2017	0.20	50
	Singhetus (Las SCK)	mg/l Mass	18 (02 s (19m-24)	15	-100
F	Flagmic (a) F)	mgr., Max	4900-F D APIJA 231 Mje on 2011	0.12	1.5
0.	Nurser (45 N/A)	mg/l Max	4 MINS Cyste L.V. Specinish manieric Serconing Method	4.5	55
l-r	Copper (as Ca)	mph Max	1111 B. of APHA 335 Edicini 2017	<0.42	1,5
r _a	Manganous as Min	mg*l	J11119 or APITA 25" Tolcom 2017	< 0.02	1752
12.	Neterouri, (as set	прч. Мах	7114 B of APID 23 ⁴ Shorm 2117	<0.61	>105
11.	America Inj	mgd, Max	3111 Pt of 5PHA 231 Mickin 2017	0.03	13
ы,	Cadonain (as 17d)	mgrt Mas.	Half You' APHA 33° Idjaca 2015	ell.003	-7.1
b.	Low (as 16)	mgrt, Mass	31/174 or A 36A 28 * Edition 2013	<0.00	0.1
15.	Alamic (as As)	ngd Mar	91-41" of A 91A (5" June p 2017	<11.01	6.2
17,	Cyanica (as CN)	ngd Maa	4500 CN 1. Colormaine Method, 471A 23 fedevin 2017	<11.ft2	n aş
12.	Librarium (m. C. r. ^b)	ingil Mas	711.19 of APHA 331 relation 2013	<0.02	0,05
12	Ankthic dicterpoint (as MBAS)	mg/l Max	Armon, K. of 18 17 268	<u.3< td=""><td>1</td></u.3<>	1
25.	Shoroda Chimpoyada (as Cutticili)	ingri, War	N 9/25 (han-4) i	40,041	чан
	COD	ıı Mı,ı	19 (0/27 + Pan-3)k	20	1776
22	400 (3×6)	ngd	S 9(2) (Part-41)	1)
21	Dawntond Overgenius Oy)	mg t Min	15 5625 (Part 55)	5.1	1
24	C. & Gitteet	ng L Max	33.25 (Part-3 o	۱۰	0.1
25	out Cauter	import floridi, Max.	15.1622 TEC	1 0 35	5000

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

(G.Chandra Moull) Environmental Scientist *Complaints Register is available at Laborator

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Website | www.bsenvitech.com

CIN No. 1074210TG1999PTC032358



Quantity.

Parking

l'ou Regulred

B.S. ENVI - TECH PVT. LTD.

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

TEST REPORT

: 1 Nig s 5/11 for Sample 1 Mg 5 500 ml Sample (Meigls)

Name & Address of the Continues: Mr. JSW Steel Limited

I No. a fill of Wide month Light both or (1865) USO, 32 M int Sample The Mentional Courte Lor Micro Test Report No. : (ISBN 2001-768-03404)

Lab Crafe No. 214639169 Inset Date 17,09,3021

Vom Pvf Chapet Dates 161-0917071

Date of Receipt 1, 05.00 2020

00.09.2021 Date of Registration

10.09,2521 Date of commencement of resing thate at completion of seeing. 17/09/2021

Sample condition at accept Laune alt

Sample resided as received.

Sampling Details

coping Method/Procedure: IS 2025 Part 1

General Environment confillms: ob ...

Page Nu. 1 of I

Date of Sampling: 46.09.1031

Project Name: Jajung tree our Minos

Sample Description: Surface Vere: Sample

Location of Sampling: Julya Audi Down Stream

: Plan Citionics

has green below

TEST RESULTS

N No	Test Paraeticion (mily Test Methods		Result	Limits for Stream Water Standards	
E.	Cologn	Hazer Conta Mex	iS 3025 (Part-4)	10	3-00
1.	:01	¥	18 3075 (Pan 10)	6.82	6.5 (5.8) 5
I,	Lita Suspended Setials	ngʻi	15.3025- Part-17	o0	1 25)
4.	This Historical Solics	mp/i, Max	18 JHZ 5 ZP in Trip	145	Lost
5.	Chlorate (as C1)	Mps', Max	IS 1025 (Part 37)	24	6/0
4	Invitas Fer	mg', Max	10.10 U or 4.984 2.3° 1 dr op 2013	U.20	SC
74	Sulphase (as 50))	ng', Max	IS 1025 (Part-24)	15	400
Ψ.	Onorade jas 1 i	Mg/, Max	4500-0- D. APDA 2 V ⁴ Editors 2017	N.30	15
4,	Nortales-128 NO 1	maid, Max	4500 MO;-B I V Specinopholocomic Surcence Motoral	9.1	52
IV.	Copperças Cop	mg/, Mqx	3111/3 at APHA 23 rd Edulo (2017	ent.()2	13
ı I.,	Макриков из Vr	η _β '	APHA 20th Edition 2017	< 0.02	***
12.	Secential (to Sa)	mg/, Max.	3 11B of APLA 231 Sahilar 2017	-0.01	H ₂ e5
ı S.	Zina (as Zir)	9g/ , Max	3011 (Len APDA 23 ¹¹ 1donos 2017	0.02	15
IT.	Custraione see Call	ng/, Max.	A111 Boof APHA 23 rd (Jahlim 2017	<0.000	*1U.
15.	Cood to (*)	ago , Max.	APDA 22 ¹⁴ 1 depos 2017	न्त्री,1ति	0.1
16,	Arvano (1) 451	ng), May	APHA 2 of Lattice 2017	40.00	9.2
15.	Pyaning (a) Ph.)	ng/ , Mps	4501 CN F. Leanningrie Method APLIA 73 rd Colline 2013	<0.112	0.05
IN.	Clicinium (ar Cl.*)	ng, Mix	3.1.14 at APPA 2211 Pdates 2017	<0.02	0.55
lə.	Amenic Irligipais (as VIIAS)	mg/t, Mgs	Ames, Kinf IS 19246	<0.1	1
214	Photolic Compriseds (as CycleO1)	mg/ , Max	IS 2025 (Pan 47)	<9.001	u.ou<
21_	PHH	aig'	15, 9024 - Parc-58	20	-
22	300 (a; 0))	mg/	IS 1025 (Part 44)	5	
2!	Totalsof Onygen (to Or)	mgd. Vin	IN 1025 (Pan Jiki	5.1	1
24	Oir & Circuit	mg/l, Mas	IS 1023 (Part 19)	9.1	DI
25	Potal Colif.cm	(report@onl), Max.	35.1028	EC# A	5000

Interpretation of results: Nit. Deviation from resumethed: No.

*Complaints Register is available at Laboratory

CCChandra Moull Environmental Scientist

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JAJANG IRON ORE MINES

WATER FLOW RATE REPORT

SEPTEMBER - 2021



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

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
188	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.,

TECH

Authorised Signatory

"Complaints Register is available at Lehnratory.

Telangana, India

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

APRIL - 2021



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

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

Locations				Noi	se Leve	le in di	n dB(A)	
	Date	Time	Leq	L _{MPs}	Leo	L50	Lio	Luan
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.B	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, event	s and contribution level details:	
Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:sa)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 59.1 to 82.8 dB(A)	1 to 2 hrs

*Complaints Register is available at Leboratory.

Website - www.bserwitech.com

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Phane

Engineer

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:		*Celsius: 33.3	
Wind speed(m/s):	AVG: 3.0	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:	Q682514, Q652513 & Q652516		

			Noise Levels in dB(A)					
Locations	Date	Time	Leq	LNL	L40	Leo	Lio	Lusz
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	L0 15 AM- LL.15 AM	77.9	76.9	77.4	77.7	78.3	78.8
Excavator Operator Cabin	12.04.2021	10 I5 AM- 11 I5 AM	80.4	79.5	79.9	80.2	8.08	81.3
Dozer Operator Cabin	12.04.2021	11.45 AM- 12.45 PM	80.9	80.0	80.5	80.8	B1 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, event	and contribution level details:	
Noise Source/Event Description	Noise Level dB(A)	Event Duration
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 58.5 to 81.7 dB(A)	1 to 2 hrs

*Complaints Register is available at Laboratory,

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Engineer

Website : www.bsenvitech.com

CIN No.: U74210TG1999PTC032358



Recognized by McEF & CC, Gol: Valid upto August, 2022

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-04		Issued to:
Reporting Date	03.05.2021	
Sample Description: /	Ambient Noise Level	Jajang Iron Ore Mines
Month : A	10	
Month : April-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Temperature:		*Celsius: 34,7	
Wind speed(m/s):	AVG: 3.6	MAX: 7.3	
Wind Direction:	SW-NE	#	
Cloud Cover:	Sunny	Octos 4/8	
Distance from Source (In Meter)	2		
SLM type:	Lutron, Model SL-4023SD		
SLM Serial Number:	Q652514, Q652513 & Q652516		

- 41			Noise Levels in dB(A)					
Locations	Date	Time	Leg	Land	Lao	Loo	L10	Lores
Crusher Plant Area	19.04 2021	09.00 AM- 10.00 AM	80.9	80.1	80.4	80.8	B1.2	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	B0.5	80.9	81.1	81.4	817
Mines Office Area	19.04.2021	11.45 AM- 12.45 PM	59.8	58.8	593	59.7	60.2	60 6

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

Noted noise source/s, event	e and contribution level details:	
Noise Source/Event Description	Naise Level dB(A)	Event Duration (mm:es)
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.

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ngineer

Wobsile www.psenvitech.com

CIN No.: U74210TG1999PTC032358



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

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

			Noise Levels in dB(A)					
Locations	Date	Time	Ĺ	Letu	Loo	Lea	Lie	Lun
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	26.04.2023	09.30 AM- 10.30 AM	80.8	79.9	B0.4	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	s and contribution level details:	
Noise Source/Event Description	Noise Level dB(A)	Event Duration
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

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CIN No.: 1074210TG1999PTCff32358



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JI	lasued to:	
Reporting Date	03.05.2021	
Sample Description: Month :	Jajang Iron Ore Mines of	
Month : April-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Measurement Location:	Guest House Area		
Temperature:		*Celsius: 25.9	
Wind speed(m/s):	AVG: 3.3	MAX: 7.5	
Wind Direction:	SW-NE	1/0	
Cloud Cover:	Clear	Octas 4/8	
SLM type:	Lutron, Model SL-40	23SD	
SLM Serial Number:	Q652517		

Measurement details and statistical poise levels - dB (A)										
Stert			Koine Level (dB (A))				Applicable Standard (dB (A))			
Time	Duration	Date	L,,,,T	LAon	LA _{als}	LA 90.T	Leq Day	Leq Hight	Day Time	Right Time
08.30 AM	24 hre	05 04 2021	51.3	52.8	40.0	52.5	51.3	41.3	55	45

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:es)
No specific source.		36 NS
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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"Complaints Register is available at Laboratory

Phone

Email

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

MAY - 2021



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:		*Celsius, 32.8	
Wind speed(m/s):	AVG: 3.0	MAX: 6.8	
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		

			ee Love	Levels in dB(A)				
Locations	Date	Time	1-9	Louin	Lao	Lso	L ₁₀	Litas
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:se)			
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 56.6 to 82.8 dB(A)	1 to 2 hrs			

"Complaints Register is available at Laboratory."

Tetangana, India

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CIN No U74210TG1999PTC032358



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JI	Isaued to:	
Reporting Date	teporting Date 01.06.2021	
Sample Description: .	Jajang Iron Ore Mines	
Month :	of	
Month: May-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd		M/s JSW Steel Ltd.

Temperature:		*Celsius: 33.7		
Wind speed(m/s):	AVG: 3,4	MAX: 7.1		
Wind Direction:	SW-NE			
Cloud Cover:	Sunny	Octos - 4/8		
Distance from Source (In Meter)	2	77		
SLM type:	Lutron, Model SL	4023SD		
SLM Serial Number:	Q652514, Q652513 & Q652516			

		1		Nol	e Leve	la in di	B(A)	
Locations	Date	Time	L _{+q}	L _{Min}	L90	L50	Lu	Leven
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 S	59.2	59.7

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

Noted noise source/s, event	s 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

"Complaints Register is available at Laboratory.

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. Engineer

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIC	Issued to:	
Reporting Date	01.06.2021	
Sample Description: A Month : N	mbient Noise Level lay-2021	Jajang Iron Ore Mines of
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Temperature:		*Celsius: 34.2	
Wind speed(m/s):	AVG: 2.9	MAX: 6.6	
Wind Direction:	SW NE		
Cloud Cover:	Sunny	Octas 4/8	
Distance from Source (In Meter)	2	V	
SLM type:	Lutron, Model SL	-40:238D	
SLM Scrial Number.	Q6S2514, Q6525	13 & 0652516	

Locations		1	Noise Levels In dB(A)						
Locations	Date	Time	Luq	L _{MIA}	Loq	L50	Lin	Luca	
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	819	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	B 1.5	
Mines Office Area	22.05.2021	08.30 AM- 09.30 AM	56.7	55.B	56.2	56.7	57.1	57.6	

N.B: <65 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			

*Complaints Register is evallable at Laboratory

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TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:	2 14	*Celsius: 32.4	
Wind speed(m/s):	AVG. 3.7	MAX: 7.9	
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, Q65251	3 & Q652516	

			Noise Levels in dB(A)						
Locations	Date	Time	Leq	Lacan	L90	Lso	Lto	Litter	
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	75.8	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	8t.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	588	

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

Noted noise source/s, events	s 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

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CIN No : U74210TG1999PTC032358



Recognized by MoEF & CC, Gol: 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	
Sample Description: /	Imbient Noise Level	Jajang Iron Ore Mines
Month : b	May-2021	of
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Measurement Location:	Guest House Area	W. The state of th
Тетпрегаture:		"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-40	23SD
SLM Serial Number:	Q652517	

	V	Measurem	ent detail	la and ata	tlitical	noise is	vels - s	IB (A)	V.)	
****				No	ise Leve	(4B (A))			Appli Standard	
Start Time	Duration	Date	L,T	1.A	LA.,.	LA WAT	Leq Day	Leg 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

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 hippers.		

*Complaints Register is available at Laboratory.

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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

JUNE - 2021



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:		*Celsius: 33.4				
Wind speed(m/sk:	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 St-	Lutron, Model SL-40238D				
SLM Serial Number:	Q652514, Q652513 & Q652516					
Calibration Validity	13/10/2021					

•				Nois	es Love	ls in d	B(A)	
Locations	Date	Time	Lq	Lute	Leo	Lso	Lio	Luc
Crusher Plant Area	07.06.2021	09.30 AM- 10.30 AM	79.3	7B.5	78.8	79.3	79.7	80.1
Screen Plant Arca	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	813	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. l	81 5	818	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 & BC79

Noted noise source/s, events and contribution level details:				
Noise Level dB(A)	Event Duration (mm:ss)			
Values ranged from 54.4 to 82.5 dB(A)	1 to 2 hrs			
	Noise Level dB[A] Values ranged from 54.4 to 82.5			

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. Engineer

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Recognized by MoEF & CC, Gol: 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	
Sample Description:	Ambient Noise Level	Jajang Iron Ore Mines
Month :	lo	
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Temperature:		*Cetsus: 33.0				
Wind speed(m/s):	AVG: 2.9	MAX: 6.7				
Wind Direction:	SW-NE	A1				
Cloud Cover:	Sunny	Octos - 4/8				
Distance from Source [In Meter]	2					
SLM type:	Lutron, Model SL-	4023SD				
SLM Serial Number:	O652514, Q652513 & Q652516					
Calibration Validity	13/10/2021					

4			1		Noise Levels in dB(A)			
Locations	Date	Time	Laq	Luta	Loa	Leo	Lia	Lucz
Crusher Plant Area	14.06.2021	08.45 AM- 09.45 AM	80.1	79.2	79.7	90.1	80.5	80.8
Screen Plant Area	14.96.2021	08.45 AM- 09.45 AM	77.3	76.2	76.8	77.1	77.7	78.2
Excavator Operator Cabin	14.96.2021	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	6.18	82.0	82.1
Mincs 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)	I to 2 hrs			

*Complaints Register is available at Laboratory.

v. Engineer

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Recognized by MoEF & CC, Gol: 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	
Sample Description:	Ambient Noise Level	Jajang Iron Ore Mines
Month :	of	
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/a JSW Steel Ltd.

Temperature:		*Celsius, 28.8				
Wind speed(m/sl;	AVG: 3.6	MAX: 8 0				
Wind Direction:	SW-NE	V				
Cloud Cover:	Cloudy	Octas 4/8				
Distance from Source (In Meter)	2					
SLM type:	Lutron, Model SL-	Lutron, Model SL-4023SD				
SLM Serial Number:	Q652514, Q652513 & Q652516					
Calibration Validity	13/10/2021					

				Noise Levels in dB(A)				
Locations	Date	Time	1 q.	Latin	Lea	Leo	L10	Luca
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

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:		*Celsius: 30.2			
Wind speed(m/s):	AVG; 3.4	MAX: 7,7			
Wind Direction:	SW-NE				
Cloud Cover:	Sunoy	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				

				Noi	se Leve	le in d	in dB(A)	
Locations	Date Time	Leq	Litte	Leo	Leo	L 10	Lux	
Crusher Plant Area	28 05.2021	10.00 AM- 11,00 AM	78.9	78 ;	78.4	78.9	79 3	79.7
Screen Plant Area	28 05.2021	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
Minos 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

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

*Complaints Register is available at Laboratory

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIC	DM/ENV/2021/NQ/2021-06	Issued to:
Reporting Date	01.07.2021	
Sample Description: Ambient Noise Level Month : June-2021		Jajang Iron Ore Mines of M/s JSW Steel Ltd.
Sample Collected by:	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 4/8
SLM type:	Lutron, Model SL-40	23SD
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

		Measurem	ent detail	le and sta	atiutical	noise k	vels - c	IB (A)	T.L.	
Start			Noise Level (dB (A))				Appli- Standard			
Time	Duration	Date	L _{ueq.} T	LA	LAnn	LA 10,1	Leq Day	Leq Night	Day Time	Right Time
08.30 AM	24 hrs	07.06.2021	\$1.5	53.1	39.3	52.8	51.5	40.4	55	45

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

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GIN No. | U74210TG1999PTC032358

JAJANG IRON ORE MINES

NOISE MONITORING REPORT

JULY - 2021



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

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

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

			Noise Levels in dB(A)					
Locations	Date	Time	Leq	Lalla	Leo	Leo	Lia	Later
Crusher Plant Arca	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	B0.7	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

*Complaints Register is available at Laboratory.

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Recognized by MoEF & CC, Gol: 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	
Sample Description: A Month	Jajang Iron Ore Mines of	
Sample Collected by:	B.S. Envi-Tech (P) Ltd	M/s JSW Steel Ltd.

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

			Noise Levels in dB(A)					
Locations	Date	Time	Log	Luis	Leo	Loc	Lia	Lua
Crusher Plant Area	15.07.2021	08.30 AM- 09.30 AM	80.3	79.5	79 .9	B0.2	80.7	81.1
Screen Flant Area	15.07.2021	08.30 AM- 09.30 AM	76.9	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. t	78.2	78.6	79. L	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. L	53.3	53.7	54.1	54.5	54.8

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

Noted notes source/s, events	s and contribution level details:	
Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:se)
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 53.3 to 83.1 dB(A)	1 to 2 hrs

Env. Engineer

"Complaints Register is available at Laboratory

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CIN No :: U742101G1999PTC032358



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TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Temperature:	m e	*Celsius: 29.3			
Wind speed(m/s):	AVG: 3.8	MAX: 8.5			
Wind Direction:	SW-NE				
Cloud Cover:	Cloudy	Octos - 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				

14			Noise Levels in dB(A)					
Locations	Date	Time	Luq	Lenn	Leo	1.60	Lia	Lean
Crusher Plant Area	22.07.2021	09.15 AM- 10.15 AM	80.8	79.9	80.3	808	81.2	81.7
Screen Plant Area	22.07.2021	09.15 AM- 10.15 AM	78.8	77.9	78.3	76.8	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
Dozer 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
Laader 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, event	s and contribution level details:	
Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm;se)
Ore Crushing Activities, DC Sets, Dumper Movements	Values ranged from 51.9 to 82.2 dB(A)	1 to 2 hrs

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: J8W/JIOM/ENV/2021/NQ/2021-07		Isaued to:
Reporting Date	02.08.2021	
Sample Description: Ambient Noise Level Month : July-2021		Jajang Iron Ore Mines of
Sample Collected by:	B.S. Envi-Tech (P) Ltd	M/s JSW Steel Ltd.

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

Y			Noise Levels in dB(A)					
Locations	Date	Time	Leq	Louis	Leo	Lso	Lia	Luc
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	78.8	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	61.2	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, event	s 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

"Complaints Register is available at Laboratory

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TEST REPORT

NOISE LEVEL MONITORING REPORT

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

Measurement Location:	Guest House Area	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:	Listran, Model SL-40	23SD				
SLM Scrtal Number:	Q652517					
Calibration Validity	13/10/2021	1				

Measurement details and statistical noise levels - dB (A)											
Start					Noise Level (dB (A))					Appli- Standard	
Time	Duration	Date	Long.T	LAco	LAmia	LA so,t	Leq Day	Leq Nigbi	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	

Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:se)
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)

*Comptaints Register is available at Laboratory,

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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

AUGUST - 2021



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

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NG/2021-08		Issued to:
Reporting Date 01.09.2021		
Sample Description:	Jajang Iron Ore Mines	
Month : August-2021		of
Sample Collected by:	M/s JSW Steel Ltd.	

Temperature:	K	"Celsus: 31.4			
Wind speed[m/s]:	AVG: 3.3	MAX:6.9			
Wind Direction:	SW NE				
Cloud Cover:	Cloudy	Octos - 4/8			
Distance from Source (In Meter)	2				
SLM type:	Lutron, Model SL-4023SD				
SLM Serial Number:	Q652514, Q652513 & Q652516				
Callbration Validity	13/10/2021				

			9	Noise Levels in dB(A)				
Locations	Date	Time	Leq	L _{MLa}	Leo	L ₀₀	L ₁₀	Legan
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 Cabbn	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	81.6
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 Noise Level dB(A) Event Duration Description (mm:ss)						
Ore Crushing Activities, DG	Values ranged from 53.5 to 82.6	1 to 2 hrs				
Sets, Dumper Movements	dB(A)	La Lampan				

"Complaints Register is evallable at Laboratory.

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

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Issued to:
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level Month : August-2021		Jajang Iron Ore Mines of
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s J\$W Steel Ltd.

Temperature:		*Celsius: 30.3			
Wind speed(m/s):	AVG: 3.5	MAX: 7.7			
Wind Direction:	SW-NE				
Cloud Cover:	Cloudy	Octos - 4/8			
Distance from Source (In Meter)	2				
SLM type:	Lutron, Model St-4023SD				
SLM Scrial Number:	Q652514, Q652513 N Q652516				
Calibration Validity	13/10/2021				

Locations			Noise Levels in dB(A)					
	Date	Time	Leq	Legn	L ₆₀	Loo	Lie	Letter
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 Cabln	12.08.2021	03.30 PM 04.30 PM	81.4	60.5	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: <95 dB(A) AS PER CTO & EC

Noted noise source/s, events and contribution level details:						
Noise Source/Event Noise Level dB(A) Event Duration Description (mm:ss)						
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.7 to 82.5 dB(A)	1 to 2 hrs				

*Complaints Register is available at Laborarary

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NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JI	Issued to:	
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level Month : August-2021		Jajang Iron Ore Mines of
Sample Collected by:	B.S. Envi-Tech (P) Ltd	M/s JSW Steel Ltd.

Temperature:		*Celsius: 30.8				
Wind speed(m/s):	AVG: 3.1	MAX: 7.3				
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					

				Noise Levels in dB(A)					
Locations	Date	Time	Laq	Latin	Loo	Lso	Lio	Letax	
Crusher Plant Area	19.08.2021	08.30 AM- 09.30 AM	80.0	79.2	79.6	79 9	80.2	80.7	
Sercen 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 & BC

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

"Complaints Register is available at Laboratory,

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

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIC	Issued to:	
Reporting Date	01.09.2021	
Sample Description: Ambient Noise Level Month : August-2021		Jajang Iron Ore Mines of
Sample Collected by:	B.S. Envt-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Temperature:	G	*Celsius: 29.4	
Wind speed(m/s):	AVG: 3.0	MAX: G.8	
Wind Direction:	SW-NE		
Cloud Cover:	Cloudy	Octus - 4/8	
Distance from Source [In Meter]	2	Ch.	
SLM type:	Lutron, Model SL-	4023SD	
SLM Serial Number:	Q652514, Q65251	3 & Q652516	
Calibration Validity	13/10/2021	*	

			Noise Levels in dB(A)					
Locations	Date	Time	Leq	Leum	L ₉₀	L50	L10	Luar
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. L	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 dH(A)	Event Duration (mm;ss)			
Ore Crushing Activities, DG Sets, Dumper Movements	Values ranged from 52.2 to 82.6 dB(A)	l to 2 hrs			

"Complaints Register is available at Laboratory

Website I www.bschvitoch.com

CIN No. #U74210TG1999PTC032358

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-08		Isaued to:
Reporting Date	01.09.2021	í
Sample Description: Ambient Noise Level Month : August-2021		Jajang Iron Ore Mines of
Sample Collected by:	B.S. Envi-Tech [Pł Ltd.,	M/s JSW Steel Ltd.

Measurement Location:	Guest House Area	7%	
Temperature:		*Celsius: 28.5	
Wind speed(m/s);	AVG: 3.4	MAX: 7.9	
Wind Direction:	SW-NE		
Cloud Cover;	Cloudy	Octus - 4/8	
SLM type:	Lutron, Model SL-40	23SD	
SLM Serial Number:	Q652517		
Calibration Validity	13/10/2021		

Messurement details and stallelical noise levels – dB (A)										
Start	Duration			No	ise Leve	(4B (A)			Appli Standard	
Time		Date	Lun,T	1A _{max}	IA	LA. VO.T	Leq Day	Leg Night	Day Time	Night Time
09.00 AM	24 hrs	05.09.2021	5 L.J	52.7	37.6	52.4	511	39.1	55	45

Noise Source/Event Description				
No specific source, Village activities prevailing which include Movement of vehicles mainly two wheelers , transportation	Values ranged from 37.6 to 52.7 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)		

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JAJANG IRON ORE MINES

NOISE MONITORING REPORT

SEPTEMBER - 2021



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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		lesued to:
Reporting Date		
Sample Description: . Month ::	Jajang Iron Ore Mines of	
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Temperature;		*Celsius: 29.6			
Wind speed(m/st;	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	40238D			
SLM Scrial Number:	Q652514, Q652513 & Q652516				
Calibration Validity	13/10/2021				

•			Noise Levels in dB(A)					
Locations	Date	Time	Lag	L	Leo	Lee	L10	Laur
Crusher Plant Area	06.09.2021	09.00 AM- 30.00 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	788	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	Values ranged from 51.9 to 81.8	1 to 2 hrs			
Sets, Dumper Movements	dB(A)	SCIAN IN			

'Complaints Register is evaluable at Laboratory.

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

NOISE LEVEL AND PORTERORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		Issued to:
Reporting Date 01.10.2021		
Sample Description: A Month : S	mbient Noise Level September-2021	Jajang Iron Ore Mines of
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Temperature:		*Celsius: 27.8			
Wind speed(m/sl)	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 St	4023SD			
SLM Serial Number:	Q652514, Q652513 & Q652516				
Calibration Validity	13/10/2021				

			Noise Levels in dB(A)					
Locations	Date	Time	Loq	Lun	Loc	Loo	Lio	Lnex
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	5 2 .3	52.8	53.1	53.7	54.2

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

Noted noise source/s, event	s 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

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CIN No. 1074210TG1999PTC032358



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

NOISE LEVEL TOWN TORNE TREPORT

REPORT NO: JSW/JIOM/ENV/2021/NO/2021-09		Issued to:
Reporting Date 01.10.2021		
Sample Description: A Month ; S	mbient Noise Level eptember-2021	Jajang Iron Ore Mines of
Sample Collected by:	i.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Temperature:		*Celsius: 30.3			
Wind speed(m/s):	AVG: 2.9	MAX: 6.7			
Wind Direction:	SW-NE				
Cloud Cover:	Clear	Octos - 4/8			
Distance from Source (In Meter)	2				
SLM type:	Lutron, Model SL-	4023SD			
SLM Scrial Number:	Q652514, Q652513 & Q652516				
Calibration Validity	13/10/2021				

			Noise Levels in dB(A)					
Locations	Date	Time	Laq	Lesto	Leo	L 30	L10	Lean
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	Naise Level (B[A]	Event Duration (mm;ss)			
Ore Crushing Activities, DG	Values ranged from 53.3 to 82.2	1 to 2 hrs			
Sets, Dumper Movements	dB(A)	l A			

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

NOISE LEVEL TENT PORTE PORT

REPORT NO: JSW/JTOM/ENV/2021/NQ/2021-09		Issued to:
Reporting Date	01.10.2021	
Sample Description: . Month :	Ambient Noise Level September-2021	Jajang Iron Ore Mines of
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Temperature:		*Celsius: 27.4				
Wind speed(m/s):	AVG: 3.3	MAX: 7.5				
Wind Direction:	SW-NE	*				
Cloud Cover:	Cloudy	Octos - 4/8				
Distance from Source (In Meter)	2					
SGM type:	Lutron, Model SL-	4023SD				
SLM Serial Number:	Q652514, Q65251	13 & Q652516				
Calibration Validity	13/10/2021					

			Noise Levels in dB(A)						
Locations	Date	Time	Leq	L _{Min}	L ₉₀	L50	Lip	LHIX	
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	80.3	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			

*Complaints Register is available at Laboratory.

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		lasued to:
Reporting Date	01.10.2021	
Sample Description: Am	Jajang Iron Ore Mines	
Month : September-2021		of
Sample Collected by: B.	S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Measurement Location:	Guest House Area	Tip-
Temperature:		*Celsius: 28.8
Wind speed(m/s):	AVC: 3.6	MAX: 7.9
Wind Direction:	SW-NE	
Cloud Cover:	Clear	Octas - 4/8
SLM type:	Lutron, Model SL-40	23SD
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels - dB (A)										
Start				No	ine Leve	L (dB (A))		0000	Appli Standard	
Time	Duration	Date	LT	lAnu	Mais	LA mr	Leq Day	Leq Night	Day Time	Night Time
09.00 AM	24 brs	06.09.2021	48.6	50.6	37.1	50.1	45.6	38.8	55	45

Noted noise source/s, events and contribution level details:						
Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm;se)				
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 toppers						

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JIOM/ENV/2021/NQ/2021-09		Issued to:
Reporting Date	01.10.2021	
Sample Description: A Month : S	Jajang Iron Ore Mine	
Sample Collected by:	B.S. Envi-Tech (P) Ltd.,	M/s JSW Steel Ltd.

Measurement Location:	East Bouandry	
Temperature:		*Celsus: 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-40	23SD
SLM Serial Number:	Q652517	
Calibration Validity	13/10/2021	

Measurement details and statistical noise levels – dB (A)										
Start				No	les Love	(4B (A)		00000	Appli Standare	cuble i (dB (A))
Time	Duration	Date	L,,,T	LAmm	LA _{nin}	LA 90.T	Leq Day	Lėq Night	Day Time	Night Time
08.00 AM	24 hrs	29,09,3031	hB 4	7) 2	52.7	70.7	58.4	54.3	76	70

Noise Source/Event Description	Noise Level dB(A)	Event Duration [mm:ss]
No specific source,		
Village activities prevailing which include	Values ranged from 52.7 to 71.2 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)
Movement of vehicles mainly two wheelers, transportation of tappers.		mosement

"Complaints Register is available at Laubratory.

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/JI	Issued to:	
Reporting Date	01.10.2021	
Sample Description: Month	Jajang Iron Ore Mines of	
Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Measurement Location:	West Boundary		
Temperature:		*Celsius: 27-5	
Wind speed(m/s):	AVG: 3.2	MAX: 6.8	
Wind Direction:	SW-NE		
Cloud Cover:	Clear	Octos - 4/8	
SLM type:	Lutron, Model SL-40	123SD	
SLM Serial Number:	Q652517		
Calibration Validity	13/10/2021		

		Measureme	ent detai	is and str	Alistical	anise k	evels – c	in (A)		
Btert				No	isa Lavel	[dB (A)		70095		cable (dB (A))
Time	Duration	Date	L _{we} ,T	LAnn	LA _{nin}	LA. SP.T	Leq Duy	Leq Night	Day Time	Night Time
09.00 AM	24 hrs	29.09.2021	66.8	69.5	53.5	68.9	ċ6.8	55,4	75	70

Noted noise source/s, events and contribution level details:							
Noise Source/Event Description	Noise Level dB(A)	Event Duration (mm:sa)					
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)					

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

TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/J	Issued to:		
Reporting Date			
Sample Description: Month :	Jajang Iron Ore Mines of		
Month : September-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.	

Measurement Location:	North Boundary	THE STATE OF THE S		
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 St-40	238D		
SLM Senal Number:	Q652517			
Calibration Validity	13/10/2021			

		Measureme	ent detail	n and sta	tiutical	nobie k	vela – c	IB (A)		
				Мо	ise Love	(dB (A))		ly-	Appli Standard	
Start. Time	Duration	Date	L _{w1} ,T	LA	LAzis	LA. PO ₁ T	Leq Day	Leq Hight	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 Lavel dB(A)	Event Duration (mm:ss)				
No specific source. Village activities prevailing which include Movement of vehicles mainly two wheelers , transportation of uppers.	Values ranged from 53.7 to 70.8 dB(A)	Maximum recorded is for 2 minutes (only during vehicle movement)				

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TEST REPORT

NOISE LEVEL MONITORING REPORT

REPORT NO: JSW/J	Issued to:	
Reporting Date	01.10.2021	
Sample Description: Month :	Jajang Iron Ore Mines of	
Month : September-2021 Sample Collected by: B.S. Envi-Tech (P) Ltd.,		M/s JSW Steel Ltd.

Measurement Location:	South Boundary	υΛ	
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-40	23SD	
SLM Serial Number.	Q652517		
Calibration Validity	13/10/2021		

		Медангени	ent detai	le and etc	tistical	noise le	svein – c	iB (A)		
01-4				Ro	iso Level	dB (A)		99375 -)	Appli Standard	
Start Time	Duration	Date	L _{enq} ,T	LA	LA _{min}	LA vo.r	Leq Day	Leq Night	Day Time	Right Time
09.30 AM	24 hrs	29.09.2021	69.2	71.4	57.9	71.1	692	60.2	75	70

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

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