



The IGF & Incharge,
GOI, MOEF&CC,
Integrated Regional Office, Kolkata,
1B-198, Salt Lake City,
Sector III,
Kolkata- 700106

Ref No. - JMB/ENV/PKDM/67/373/2023
May 29, 2023

Ref.: Environmental Clearance letter no. - J-11015/422/2012-IA.II (M), Dated- 05.11.2015
(Amended on 30.11.2015).

Sub: Half Yearly Compliance Status Report of Environment Clearance conditions issued by MoEFCC, New Delhi to Premsinghdih Sand Lease, Tata Steel Limited, Dhanbad for the period October'22 to March'23.

Dear Sir,

We are enclosing herewith compliance report for the period **October'22 to March'23** for the EC granted vide letter no.- J-11015/422/2012-IA.II(M), Dated-05.11.2015 (amended on 30.11.2015) issued by Ministry of Environment, Forest and Climate Change, New Delhi.

We trust the information furnished is in line with your requirement.

Thanking you,

Yours faithfully,

Head (Planning)
Jharia Division, Tata Steel Ltd.

Encl: As above.

Copy to: Member Secretary, CPCB, Eastern Zonal Office, Southend Conclave, 502, 5th Floor
1582, Rajdanga Main Road, Kolkata -700107.

Copy to: Member Secretary, WBPCB, Paribesh Bhavan, 10A, Block-L.A., Sector III, Salt Lake
City, Kolkata - 700 098

Copy to: Regional Officer, Asansol Regional Office, WBPCB, DDA, Commercial Market (2nd
Floor), Asansol- 713 301, Burdwan

HALF YEARLY COMPLIANCE REPORT
(PERIOD: OCTOBER'22 – MARCH'22)

PREMSINGHDIH SAND LEASE

(CAPACITY: 0.2 MTPA SAND FROM RIVERBED OF GOWAI)
TEHSIL: RAGHUNATHPUR II, DIST: PURULIA, WEST BENGAL



TATA STEEL LIMITED, JHARIA DIVISION
P.O.- JAMADOBA, DIST. - DHANBAD,
STATE- JHARKHAND, PIN CODE – 828112.

**ENVIRONMENTAL CLEARANCE GRANTED VIDE LETTER NO.- J-
11015/422/2012-IA.II(M) DATED- 05.11.2015 (AMENDED ON 30.11.2015) ISSUED BY
GOVT. OF INDIA, MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE, NEW DELHI**

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

S. No.	Condition	Compliance Status
Specific Condition		
(i)	Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of West Bengal and any other Court of Law, if any, as may be applicable to this project.	All the judgements applicable to this project will be strictly followed.
(ii)	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, applicable for this Mining Project.	It is not applicable for this mining project.
(iii)	No mining activities will be allowed in forest areas, if any, for which the Forest Clearance is not available.	There is no forest area involved.
(iv)	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, West Bengal and effectively implement all the conditions stipulated therein.	<p>The Consent to Establish has been granted by WBPCB vide letter no. 1055-2N-02/2015(E) dated 17.12.2015.</p> <p>The Consent to Operate (CTO) has been granted by WBPCB vide Consent Letter No:CO118281; Memo No.- 552 –WPBA/Red(ppl) / cont (404)/18; dated-29.12.2020 with validity up to 31.12.2025.</p> <p>The mining has started after the grant of CTO and all the conditions stipulated therein are being effectively implemented.</p>
(v)	Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.	Excavation is being done as per the Sustainable Sand Mining guidelines as stipulated by MoEF&CC.
(vi)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup and once in six months and necessary medical care/ preventive measures under taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine	a. Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital.

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	workers would also be adopted; Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, River Bank erosion and maintenance of Road, etc.	b. A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.
(vii)	Transport of minerals shall be done either by dedicated road or it should be ensured that the trucks/ dumpers carrying the mineral should not be allowed to pass through the villages.	Transportation of sand is done by a dedicated Pucca road starting from the riverbed till the colliery sand bunker. The trucks/ dumpers will not pass through the village roads.
(viii)	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.
(ix)	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSRDS.
(x)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing center; Washing of all transport vehicle should be done inside the mining lease.	Water sprinkling on the transportation road is being done regularly to minimize the pollution. The vehicles used are being regularly checked and maintained. Only vehicles having valid PUC certificates are allowed to ply. Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded. The washing of trucks is being done in garages/ workshop located away from the riverbed as this is a river-bed sand mining project and washing of trucks near the river may degrade the river water quality.
(xi)	Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5m below the	Permanent pillars have been erected marking the boundary of the mine lease area.

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	ground and 1.2m above the ground to observe its stability.	
(xii)	The Project Proponent shall also take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area. Further, the Project Proponent shall implement the Conservation Plan for the Schedule I species, if any, reported in the Study area. The implementation Report shall be sent regularly to Regional Office of the MOEFCC located at Bhubaneswar.	All precautionary measures are being taken during mining operation to protect the flora and fauna. As per the last study done, there were no endangered species near to the mining lease area.
(xiii)	The illumination and sound at night at project site disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/ night hours.	There are no floodlights erected due to the project. Noise levels is being kept well within the prescribed limits.
(xiv)	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.	There is no haulage road since it is a river-bed sand excavation project. Only temporary access roads are made on the sand lumps. Further, water spraying activity on transportation roads is being done with the help of water tankers.
(xv)	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the	It is being strictly complied. The transportation will not be done through the village roads. A dedicated 'pucca' road network is available which is being used for the sand transportation activity.

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	Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	
(xvi)	Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/ public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternate arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.	There is no such acquisition required for this project.
(xvii)	CSR activities by Companies including the Mining Establishments have become mandatory up to 2% of their financial Turn-over. Socio Economic Development of the neighborhood Habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/ Workers. The report shall be submitted to the Ministry of Environment and Forest and its Regional Office located at Bhubaneshwar on six monthly basis.	The CSR activities are being done and the 2% mandate is being fulfilled at the company level. The CSR report of our division is being enclosed with this compliance report. The CSR expenditure for FY23 is Rs.11.84 crores.
(xviii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the Project.	Since all the workers are being engaged from the nearby villages, there is no requirement of separate housing for this project.
(xix)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the MOEFCC 5 years in advance of final mine closure for approval.	The Mine Plan along with MCP has been approved in 2014. This is a river-bed sand mining project and the sand gets replenished every year so there is no requirement for any mine closure activity

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		except for the removal of temporary infrastructure or machinery available on the site.
B1	SPECIAL CONDITIONS	
	<u>Impact Category: Stakeholder Engagement</u>	
(1)	In the case of private land not owned by the lease holder an affidavit should be obtained regarding consent of the concerned land owner(s) for carrying out the mining operation.	Not applicable as no private land is involved in this project.
(2)	Stakeholder awareness and ability to raise concerns and getting it to be addressed.	All stakeholders are given opportunity to raise their concerns with General Manager, Coal on weekly basis (every Monday).
(3)	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	All the points mentioned in the action plan have been implemented. They are related to environmental protection measures like water spraying, tree plantation and road repairing activities. Remaining points related to CSR like health care facilities have also been taken up by our CSR wing TSRDS.
(4)	Having valid lease and all the permits is very much needed.	The project has valid lease as well as all necessary permits required from the statutory authorities.
(5)	To establish a Monitoring Committee including Local Panchayat, to check on traffic due to transportation and submit an annual report on the same.	A Monitoring Committee has been appointed to monitor the replenishment study, traffic management, levels of production, River Bank erosion, maintenance of Road, etc on regular basis. The committee comprises officials from the Mine Planning, Survey, Environment and CSR Departments. Feedback from the Panchayat officials of nearby villages is also considered.
(6)	The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos.19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 may be strictly followed.	All the directions in the above cases will be strictly followed.
(7)	All the provisions made and restrictions imposed as covered in the	This is not applicable as sand used for stowing is a major mineral.

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	Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.													
	Impact Category: Sustainable Mining Practices													
(8)	District level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.	This is a major mineral hence this survey report is not required.												
(9)	The depth of mining in Riverbed shall not exceed one meter or water level whichever is less, provided that where the Joint Inspection Committee certifies about excessive deposit or over accumulation of mineral in certain reaches requiring channelization, it can go up to 3 meters on defined reaches of the River.	The depth of mining will not exceed 3 meters.												
(10)	No River sand mining be allowed in rainy season.	Sand mining does not take place during rainy season. Mining activity is suspended during the monsoon period.												
(11)	To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity/ production levels shall be decreased/ stopped accordingly till the replenishment is completed.	<p>The annual sand replenishment study has already been completed for the project by a reputed institution, Indian School of Mines Dhanbad. The report was submitted along with the EIA/EMP report to MOEFCC for the grant of EC. The findings are provided here-</p> <p>Replenishment Calculation per Km stretch of Damodar in JCF</p> <table border="1"> <thead> <tr> <th>Sl</th> <th>Estimation /Assessment</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Per km stretch of Damodar the silt load per year</td> <td>4,78,260m³/km/yr</td> </tr> <tr> <td>ii)</td> <td>Bulk density of sand</td> <td>1.6 T/m³</td> </tr> <tr> <td>iii)</td> <td>Tonnage of sedimentation</td> <td>7,65,216 T/km/yr</td> </tr> </tbody> </table>	Sl	Estimation /Assessment	Values	i)	Per km stretch of Damodar the silt load per year	4,78,260m ³ /km/yr	ii)	Bulk density of sand	1.6 T/m ³	iii)	Tonnage of sedimentation	7,65,216 T/km/yr
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			per km stretch per year	
		iv)	In a 2.6 Km stretch of the Core the sedimentation	≈19.9 Lakh Ton/yr
		v)	In South Bank only (ML) = SI No (iv)/2	≈9.95Lakh Tonne
		So therefore, there is potential for safe excavation of around 9.95 LT of riverbed sand, while the capacity of our project is only 2 LT.		
(12)	Ultimate working depth shall be up to 3m from the Riverbed level and not less than one meter from the water level of the River channel whichever is reached earlier. In hilly terrain this depth be preferably restricted to one meter.	The depth of mining will not exceed 3 meters and not less than one meter from the water level of the River channel if it is reached earlier.		
(13)	In River flood plain mining a buffer of 3 meters to be left from the River bank for mining.	This is not applicable.		
(14)	In mining from agricultural field a buffer of 3 meters to be left from the adjacent field.	This is not applicable.		
(15)	Mining shall be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.	Sand excavation activity is being done as per these guidelines to avoid ponding effect.		
(16)	To maintain safety and stability of Riverbanks i.e. 3 meters or 10% of the width of the River whichever is more will be left intact as no mining zone.	10% of the width has been left intact as no mining zone.		
(17)	No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.	It will be strictly followed.		
(18)	No blasting shall be resorted to in river mining and without permission at any other place.	No blasting is involved.		
(19)	Depending upon the location, thickness of sand, deposition, agricultural land/river bed, the method of mining may be manual, semi-mechanized or	Semi mechanized method of mining are used for excavation of sand.		

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	mechanized; however, manual method of mining shall be preferred over any other method.	
	Impact Category: Identification and Preparation of Mining Site	
(20)	Mining should be done only in area/ stretch identified in the District Level Survey Report suitable for mining and so certified by the Sub-Divisional Level Committee after site visit.	The District survey report is not applicable for major mineral projects.
(21)	Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.	Pillars have been erected marking the boundary of the mine lease area. Authentication by DGPS survey has also been conducted and the SHAPE file has been submitted through CD along with our letter (Ref. No- JMB/115/233A/2017) dt. 31.01.2017 to Regional Office, MoEFCC, Bhubaneswar. It is also mailed at roez.bsr-mef@nic.in on 31.01.2017.
(22)	The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.	This is not applicable as no top soil generation is involved.
(23)	The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.	All records of quantity of sand mined out and dispatched from the mine are available with our Mine Planning Department. Mode of transport of sand is truck. A copy of challan issued to truck also exists with us in which the registration number and person-in-charge of vehicle are mentioned. These documents are being properly maintained and shall be produced during any inspection.
(24)	For each mining lease site, the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.	It is being strictly followed. The entire mineral being transported is accounted for. All trucks carry valid mining challans issued by the office of the Chief Mining Officer.
(25)	The State/ District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the	Regulation of sand transport from our lease area is being done by Chief Mining Officer, Asansol. Manual permits are being issued as online facility for issuing the permit has not been implemented yet in West Bengal.

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	lease area and the number of trucks moving out with the mineral.	
(26)	There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.	We will effectively comply with all the applicable EC conditions. Monitoring committee inspects the lease area on regular basis.
	Impact Category: Noise Management	
(27)	Noise arising out of mining and processing shall be abated and controlled at source to keep within permissible limit.	Noise generation is expected only during the operation of shovel and dumpers and during transportation. We will ensure that the machinery are kept in good conditions and are regularly maintained so that noise from their engines is minimized. Every care possible is being taken to keep noise level within permissible limit.
(28)	Restricted working hours. Sand mining operation has to be carried out between 6 am to 7 pm.	Our sand excavation activity takes place only during above mentioned hours.
	Impact Category: Air Pollution and Dust Management	
(29)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly.	Water sprinkling on the transportation road is being done regularly to minimize the pollution load on the environment.
(30)	Air Pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.	Ambient Air monitoring is being done to monitor the dust & gaseous pollution due to operation of shovel and dumpers. It will be kept under the permissible limits. The ambient air analysis reports are attached as Annexure-I .
(31)	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.	Transportation of sand is always done via tarpaulin-covered trucks which are optimally loaded.
	Impact Category: Management of Visual Impact	
(32)	The mining operations are to be done in a systematic manner so that the	Mining is being done in a systematic manner. The biodiversity and aesthetic

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	operations shall not create a major visual impact on the site.	beauty of the area will be maintained always.
(33)	Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 2500 trees per hectare in area near lease.	It will be ensured that flora is not affected or damaged by the sand mining operations. Tree saplings have been distributed to nearby villagers. Since almost all the area near lease is private land, we undertake plantation activities in consultation with the land-owners.
(34)	No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.	Not applicable as no forest area is involved.
(35)	Protection of turtle and bird habitats shall be ensured.	Not applicable as no such habitat exists near our lease area.
(36)	No felling of tree near quarry is allowed. For mining lease within 10km of the National Park/ Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wildlife (NBWL) have to be obtained as per the Hon'ble Supreme Court order in I.A. No. 460 of 2004.	It is not applicable.
(37)	Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.	It is not applicable.
	Impact Category: Management of Instability and Erosion	
(38)	Removal, stacking and utilization of top soil in mining should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.	It is not applicable as no top soil will be generated.
(39)	The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow etc. by constructing engineering structures.	It is not applicable.

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(40)	Use of oversize material to control erosion and movement of sediments.	It is not applicable.
(41)	No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope.	It will be strictly followed.
(42)	No extraction of stone/ boulder/ sand in landslide prone areas.	There are no landslide prone areas near our lease.
(43)	Controlled clearance of riparian vegetation to be undertaken.	No riparian vegetation is proposed to be disturbed.
Impact Category: Waste Management		
(44)	Site clearance and tidiness is very much needed to have less visual impact of mining.	Housekeeping and tidiness of the area will always be maintained.
(45)	Dumping of waste shall be done in earmarked places as approved in Mining Plan.	No waste will be generated.
(46)	Rubbish burial shall not be done in the Rivers.	No such burial will be done in the river.
Impact Category: Pollution Prevention		
(47)	The EC holder shall take all possible precautions for the protection of environment and control of pollution.	All necessary precautions will be taken as mentioned in earlier points.
(48)	Effluent discharge should be kept to the minimum and it should meet the standards prescribed.	No water for industrial purpose is required for the sand excavation activity. Further there will be no township as all manpower will be from the nearby villages. Hence, no generation of effluent is envisaged.
Impact Category: Protection of Infrastructure		
(49)	Mining shall not be undertaken in a mining lease located in 200-500 meter of bridge, 200 meter upstream and downstream of water supply/ irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the	It is being strictly followed.

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	edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.	
(50)	For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.	It is being strictly followed.
(51)	Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical and archeological importance.	No such danger is posed by our mining lease.
	Impact Category: Enhancement of Road Safety	
(52)	Vehicles used for transportation of sand are to be permitted only with fitness and PUC Certificates.	Only vehicles having valid PUC and fitness certificates can ply.
(53)	Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.	The approach roads are of adequate width and there is no risk of traffic congestion in the area. This has been validated in the traffic density study conducted previously.
(54)	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The transportation road is pucca throughout and it will be ensured that the road is not damaged. In case small repairs are required, it will be done by the company.
(55)	No stacking allowed on road side along National Highways.	No stacking is being done. The sand is transported directly to the sand yards of our underground mines.
	Impact Category: Closure and Reclamation of Mined Out Area	
(56)	The Project Proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.	No land will be affected due to the project.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Preamsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

(57)	Restoration, reclamation and rehabilitation in cluster should be done systematically and jointly by each EC holder in that cluster. This should be appropriately reflected as EC condition in each EC in cluster.	This is not applicable as this is a single mine lease and not part of any EC cluster.
(58)	Site specific plan with eco-restoration should be in place and implemented.	Tree plantation activities is being done in the area as part of eco-restoration.
	Impact Category: Health and Safety	
(59)	Health and safety of workers should be taken care of.	All the safety procedures are being implemented including safe driving checks and over-speeding checks. Health care to workers are provided at our Hospital.
(60)	Transport of mineral will not be done through villages/ habitations.	It is being complied with. It will not be done through any village or habitation.
(61)	The Project Proponent shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers.	All the above arrangements will be done at the mining site.
(62)	Project Proponent shall implement the Disaster Management Plan if the mine lease area is located in Seismic Zone-IV. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels.	The mine lease area lies in Seismic Zone-III so it is not applicable.
(63)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers etc. shall be undertaken once in six months and necessary remedial/ preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.	Our central hospital located at Jamadoba, already has an Occupational Health Specialist to cater to the medical checkups/ medical care of the workers. The workers involved in this project will also be provided medical care in our central hospital.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	Impact Category: Monitoring the Impact of Mining and Mineral Conservation	
(64)	The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.	The information has been provided in earlier points.
(65)	Use of alternate material such as M-sand in place of natural River sand shall be encouraged in order to reduce stress on natural eco-system.	We have previously explored the use of BF Slag and LD Slag as replacement for sand but it was not found suitable for underground backfilling due to operational and environmental issues.
B2:	PROCEDURE FOR MONITORING OF SAND MINING:	
(i)	Project Proponent must ensure that the security features of Transport Permission viz. (a) Printed on Indian Bank Association (IBA) approved Magnetic Ink Character Recognition Code (MICR) paper; (b) Unique Barcode; (c) Unique Quick Response Code (QR); (d) Fugitive Ink Background; (e) Invisible Ink Mark; (f) Void Pantograph; (g) Watermark.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(ii)	Project proponent must ensure that the CCTV camera, Personal Computer (PC), Internet Connection, Power Back up, access control of mine lease site; and arrangement for weight or approximation of weight of mined out mineral on basis of volume of the trailer of vehicle used at mine lease site are available.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(iii)	Project Proponent must ensure the Scanning of Transport Permit or Receipt and Uploading on Server.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(iv)	The State Mines and Geology Department should print the Transport Permits/ Receipt with security features enumerated at Paragraph (i) above and issue them to the mine lease holder through the District Collector. Once these Transport Permits or Receipts are issued, they would be uploaded on the	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	server against that mine lease area. Each receipt should be preferably with pre-fixed quantity, so the total quantity gets determined for the receipts issued. When the Transport Permit or Receipt barcode gets scanned and invoice is generated, that particular barcode gets used and its validity time is recorded on the server. So all the details of transporting of mined out material can be captured on the server and the Transport Permit or Receipt cannot be reused.	
(v)	The staff deployed for the purpose of checking of vehicles carrying mined mineral should be in a position to check the validity of Transport permit or Receipt by scanning them using website, Android Application and SMS.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(vi)	In case the Vehicle breakdown, the validity of Transport Permit or Receipt shall be extended by sending SMS by driver in specific format to report breakdown of vehicle. The server will register this information and register the breakdown. The State can also establish a call centre, which can register breakdowns of such vehicles and extend the validity period. The subsequent restart of the vehicle also should be similarly reported to the server/ call centre.	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.
(vii)	The route of vehicle from source to destination shall be tracked through the system using check points, Radio-frequency identification (RFID) Tags and Global Positioning System (GPS) tracking.	GPS tracking is being done for every vehicle used for sand transportation from source to destination.
(viii)	The system shall enable the authorities to develop periodic report on different parameters like daily lifting report, vehicle log/history, lifting against allocation and total lifting. The system can be used to generate auto mails/SMS. This will enable the District Collector/ Magistrate to get all	Online facility for transport permission has not been implemented yet in West Bengal for Private lessee. Manual permits are being issued by Chief Mining Officer, Asansol.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	the relevant details and will enable the authority to block the scanning facility of any site found to be indulged in irregularity. Whenever any authority intercepts any vehicle transporting illegal sand, it shall get registered on the server and shall be mandatory for the officer to fill in the report on action taken. Every intercepted vehicle should be tracked.	
C:	GENERAL CONDITIONS:	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests and Climate Change.	It will be complied with.
(ii)	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	It will be complied with.
(iii)	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	This is not applicable as there will be no drawl of surface water or ground water.
(iv)	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as Annexure-I .
(v)	Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the CPCB. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	The Ambient Air Quality monitoring is being done as per NAAQS 2009 Notification and reports are attached as Annexure-I . Water spraying by tankers is regularly done on the transportation roads.
(vi)	The upliftment of SC/ ST population, specific programmes have been taken in to consideration specially with respect to education, health care, livelihood generation, infrastructure	CSR activities by TSRDS are taking place in all the villages located nearby to the mine lease. The above points have been taken into consideration by TSRDS.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Preamsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	development & promotion of sports & culture for SC/ST population and that these will be intensified in future.	
(vii)	Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the 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. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	As our lease area is located on the riverbed, tree plantation is taken up in consultation with the village land owners. We have approached the schools and community places to provide space for tree plantation and have planted various forestry and fruit trees during this monsoon.
(viii)	Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	This is not applicable as there is no OB dumps.
(ix)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 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 CPCB in this regard.	Emissions are envisaged during the movement of trucks from the sand lease till the colliery site. There will be no emissions during sand mining activity. Water spraying will be done on the transport roads to minimize the dust generated during transportation of sand and ultimately maintain the ambient air quality of the area below the CPCB norm.
(x)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change, its Regional Office, Bhubaneshwar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and CPCB.	The report on surface water quality analysis (upstream and downstream) is being attached as Annexure-I .

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

(xi)	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 constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest & Climate Change and its Regional Office, Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground Water Board.	The ground water table monitoring is being done on regular basis. The water level (below the ground level) and quality analysis has been done and reports are attached as Annexure-I .
(xii)	The critical parameters such as PM ₁₀ , PM _{2.5} , NO _x , SO _x & CO in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	The ambient air quality analysis reports are attached as Annexure-I . There is no water discharge due to mining operation as it is sand excavation project only. The compliance report is being uploaded on company's website every time.
(xiii)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , NO _x , SO _x & CO monitoring. Location of the stations should be decided based on the	The monitoring stations have been established and monitoring job is being done on regular basis. Data on ambient quality are being sent regularly along with EC and consent compliance reports.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Preamsinghdi, Poradi, Erandi, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	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. Data on ambient air quality should be regularly submitted to this Ministry including its regional office located at Bhubaneswar and the State Pollution Control Board/ Central Pollution Control Board once in six months.	
(xiv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Sand, being coarse in nature and having high moisture content, does not get air borne during gathering & transportation. However, dust control measures while transporting of sand will be in place through water tanker, coverage of trucks and optimal loading.
(xv)	Measures should be taken for control of noise levels below 85 dBA in work Environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Proper PPE's are provided to all the workers.
(xvi)	Industrial waste water (Workshop and Waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of Workshop effluents.	No industrial waste water generation will take place.
(xvii)	Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspect.	It will be complied with.
(xviii)	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.	We have a separate Environmental Management Cell with qualified personnel. The reporting of Environmental Cell is directly to General Manager of the Division.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Premsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

(xix)	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 this ministry and its regional office located at Bhubaneswar.	Sand, being coarse in nature and having high moisture content, does not get air borne during transportation. Sand stored in the sand yards is transferred to underground voids through surface bunkers in a slurry form. However, dust control measures while transporting of sand is in place through water tanker, coverage of trucks and optimal loading.
(xx)	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.	The CTE and CTO of the project have been granted by WBPCB. The permission for lifting of sand from the river bed has also been granted by Chief Mining Officer, Asansol.
(xxi)	The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer (s) of the regional office by furnishing the requisite Data/information/ monitoring reports.	It will be complied with.
(xxii)	The Project Proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC, its Regional Office Bhubaneswar, CPCB and SPCB.	It is being complied with.
(xxiii)	A copy of clearance letter will be marked to concerned Panchayat, local NGO, if any, from whom suggestions/ representations has been received while processing the proposal.	It has been done.
(xxiv)	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.	It has been complied with.
(xxv)	The project authorities should advertise at least in two local newspapers 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	It has been done and copies sent to regional office at Bhubaneshwar.

Compliance status of Environmental Clearance of Mining of mineral sand from the river bed of Gowai (0.2 MTPA) of M/s Tata Steel Ltd., Village Preamsinghdih, Poradih, Erandih, Tehsil Raghunathpur II, dist. Purulia, West Bengal (MLA- 44.10 Ha) vide MoEFCC Letter no J-11015/422/2012-IA.II (M) dated November 5, 2015 (corrigendum on 30.11.2015)

	<p>project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website 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.</p>	
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Ambient Air Quality Analysis Report

Period- October'22 to December'22

Name of Industry : Preamsingdih Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	October'22	November'22	December'22
Icchar High School, Kamargora, Icchar, Purulia	21.10.2022/ Clear	16.11.2022/ Clear	22.12.2022/ Clear
Near Kali Mandir, Railway Colony, Bhojudih	21.10.2022/ Clear	16.11.2022/ Clear	22.12.2022/ Clear
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	22.10.2022/ Clear	17.11.2022/ Clear	23.12.2022/ Clear
Santaldih Thermal Power Station, Santaldih	22.10.2022/ Clear	17.11.2022/ Clear	23.12.2022/ Clear

Location	Latitude/ Longitude	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
			PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	PM _{2.5} Level : 24 Hourly Limit- 60µg/m ³	SO ₂ Level: 24 Hourly Limit-80µg/m ³	NO ₂ Level: 24 Hourly Limit-80µg/m ³
Icchar High School, Kamargora, Icchar, Purulia	23°37'21.6"N 86°29'25.1"E	21.10.2022	63.6	32.6	14.3	14.6
		16.11.2022	66.8	33.5	15.4	17.3
		22.12.2022	67.4	34.6	15.6	16.3
Near Kali Mandir, Railway Colony, Bhojudih	23°38'20.7"N 86°26'46.3"E	21.10.2022	64.5	32.8	14.3	14.5
		16.11.2022	66.5	35.7	15.2	16.6
		22.12.2022	67.4	36.4	16.5	17.5
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	23°39'00.9"N 86°23'44.4"E	22.10.2022	64.5	34.5	14.3	14.7
		17.11.2022	65.4	35.6	16.6	17.2
		23.12.2022	67.6	34.8	17.2	16.8
Santaldih Thermal Power Station, Santaldih	23°36'01.5"N 86°28'20.6"E	22.10.2022	64.2	32.7	14.6	15.6
		17.11.2022	67.5	36.8	16.5	17.4
		23.12.2022	65.4	35.4	16.7	16.2
Minimum			63.6	32.6	14.3	14.5
Maximum			67.6	36.8	17.2	17.3
Average			65.90	34.61	15.60	16.22



Sr. Manager (Environment)

Ambient Air Quality Analysis Report

Period- January'23 to March'23

Name of Industry : Preamsingdih Sand Mining Project

No. of sampling points : 4

Sampling Location	Date of Sampling/ Weather Condition		
	January'23	February'23	March'23
Icchar High School, Kamargora, Icchar, Purulia	11.01.2023/ Clear	20.02.2023/ Clear	14.03.2023/ Clear
Near Kali Mandir, Railway Colony, Bhojudih	11.01.2023/ Clear	20.02.2023/ Clear	14.03.2023/ Clear
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	12.01.2023/ Clear	21.02.2023/ Clear	15.03.2023/ Clear
Santaldih Thermal Power Station, Santaldih	12.01.2023/ Clear	21.02.2023/ Clear	15.03.2023/ Clear

Location	Latitude/ Longitude	Date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
			PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	PM _{2.5} Level : 24 Hourly Limit- 60µg/m ³	SO ₂ Level: 24 Hourly Limit-80µg/m ³	NO ₂ Level: 24 Hourly Limit-80µg/m ³
Icchar High School, Kamargora, Icchar, Purulia	23°37'21.6"N 86°29'25.1"E	11.01.2023	66.4	35.7	16.3	18.5
		20.02.2023	67.8	36.5	17.4	19.3
		14.03.2023	69.4	38.6	18.2	20.4
Near Kali Mandir, Railway Colony, Bhojudih	23°38'20.7"N 86°26'46.3"E	11.01.2023	72.4	39.7	17.2	18.3
		20.02.2023	74.3	40.2	18.5	19.6
		14.03.2023	75.2	41.3	16.5	18.3
Utkramit Madhya Vidyalaya, Manpur, Chandankyari, Bokaro	23°39'00.9"N 86°23'44.4"E	12.01.2023	68.3	36.5	15.2	16.7
		21.02.2023	68.6	37.6	16.5	17.2
		15.03.2023	69.5	38.3	17.2	16.8
Santaldih Thermal Power Station, Santaldih	23°36'01.5"N 86°28'20.6"E	12.01.2023	69.4	36.7	15.6	16.7
		21.02.2023	70.2	37.8	16.5	17.4
		15.03.2023	72.3	36.5	17.3	16.7
Minimum			75.2	41.3	18.5	20.4
Maximum			66.4	36.5	15.2	16.7
Average			70.31	37.95	16.86	17.99



Sr. Manager (Environment)

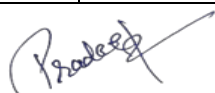
Ground Water Quality Analysis

Ground water level fluctuation in and around Core & Buffer zone area of sand mining lease Post- Monsoon Season- November'22

S.No	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	17.11.2022	Prem Singhdih	10:40AM	2.25	7.3	587
2	17.11.2022	Lagla	11:45AM	2.18	7.2	492
3	17.11.2022	Alakdih	11:15AM	1.65	7.1	497
4	17.11.2022	Joradih	01:05PM	2.19	7.2	562
5	17.11.2022	SEB Quarters	11:25AM	2.15	7.0	652
6	17.11.2022	Kargali	02:40PM	2.24	7.1	495
7	17.11.2022	Kumargora	01:36PM	1.46	7.3	589
8	17.11.2022	Bhojudih	01:50PM	1.36	7.2	595
9	17.11.2022	Mahal	12:15PM	1.42	7.1	523
10	17.11.2022	Sudamdih	01:57PM	1.62	7.2	597

Winter Season- January'23

S.No	Date	Location	Time	Sample Parameter		
				Depth in meter (m)	pH	Electrical Conductivity, $\mu\text{S/m}$
1	12.01.2023	Prem Singhdih	10:25AM	2.42	7.2	621
2	12.01.2023	Lagla	11:42AM	2.25	7.1	510
3	12.01.2023	Alakdih	11:05AM	2.16	7.0	517
4	12.01.2023	Joradih	01:40PM	2.38	7.1	593
5	12.01.2023	SEB Quarters	11:20AM	2.37	7.2	674
6	12.01.2023	Kargali	01:55PM	2.56	7.0	507
7	12.01.2023	Kumargora	11:50PM	1.65	7.1	613
8	12.01.2023	Bhojudih	01:45PM	1.83	7.2	598
9	12.01.2023	Mahal	12:28PM	2.15	7.0	532
10	12.01.2023	Sudamdih	01:50PM	2.23	7.1	595



Sr. Manager (Environment)

Surface Water Quality Analysis

Sl. No.	Location	Sampling Date	Sampling Time	Temp	pH	TSS	BOD	Oil & Grease
				< 40°C	5.5 - 9.0	100 mg/l	30 mg/l	10 mg/l
1.	River Gowai Up Sttream	21.02.2023	10:30 AM	27.5	7.5	22	2.3	0.7
2.	River Damodar Down Stream	21.02.2023	10:45 AM	26.8	7.7	23	2.8	0.8
3.	Laghla (Pond)	21.02.2023	01:20 PM	26.7	7.5	24	3.2	0.2
4.	AlakhdiH(Pond)	21.02.2023	01:35 PM	27.4	7.8	23	3.5	0.3
5.	JoradiH (Pond)	21.02.2023	11:48 AM	27.6	7.6	24	3.2	0.4
6.	SEB Quarters (Pond)	21.02.2023	11:12 AM	28.3	7.4	22	3.3	0.2
7.	Kargali (Pond)	21.02.2023	12:25 PM	27.5	7.6	24	3.1	0.3
8.	Kumargora (Pond)	21.02.2023	12:58 PM	26.8	7.5	23	3.4	0.2
9.	Bhojudih (Pond)	21.02.2023	12:45 PM	27.3	7.4	22	2.7	0.3



Sr. Manager (Environment)



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Sindri, Industrial Area,
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Email ID: sindriaditi@gmail.com
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Phone: 0326-2952377 (O)
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/2088

Date: 16.11.2022

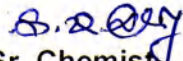
TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBA D (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 10.11.2022 to 11.11.2022
- Date of Testing : 12.11.2022 - 14.11.2022
- Test Procedure : As per IS-5182

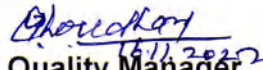
TEST RESULTS

LOCATION - ICCHAR HIGH SCHOOL				
	Avg. Ambient Temperature	28 ^o C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	70.49	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	37.24	60 µg/m ³	
3.	SO ₂ , µg/m ³	15.27	80 µg/m ³	
4.	NO ₂ , µg/m ³	28.98	80 µg/m ³	
5.	Ozone, µg/m ³	16.52	180 µg/m ³	
6.	NH ₃ , µg/m ³	18.68	400 µg/m ³	
7.	CO, mg/m ³	0.76	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, ng/m ³	BDL	6 ng/m ³	
10.	Ni, ng/m ³	BDL	20 ng/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³	

NOTE: BDL - Below Detection Limit


Sr. Chemist
Aditi R&D Services




Quality Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/2089

Date: 16.11.2022

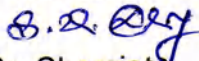
TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 10.11.2022 to 11.11.2022
- Date of Testing : 12.11.2022 - 14.11.2022
- Test Procedure : As per IS-5182

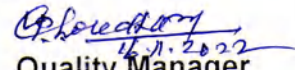
TEST RESULTS

LOCATION - LAGLA GRAM PANCHYAT				
	Avg. Ambient Temperature	28°C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	78.22	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	40.65	60 µg/m ³	
3.	SO ₂ , µg/m ³	19.80	80 µg/m ³	
4.	NO ₂ , µg/m ³	30.82	80 µg/m ³	
5.	Ozone, µg/m ³	20.65	180 µg/m ³	
6.	NH ₃ , µg/m ³	21.67	400 µg/m ³	
7.	CO, mg/m ³	1.53	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, ng/m ³	BDL	6 ng/m ³	
10.	Ni, ng/m ³	BDL	20 ng/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³	

NOTE: BDL - Below Detection Limit


Sr. Chemist
Aditi R&D Services




Quality Manager
Aditi R&D Services, Sindri

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Jharkhand - 828107
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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/ 2090

Date: 16.11.2022

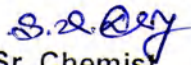
TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDI H)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 10.11.2022 to 11.11.2022
- Date of Testing : 12.11.2022 - 14.11.2022
- Test Procedure : As per IS-5182

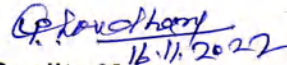
TEST RESULTS

LOCATION - SAHARJURI SCHOOL			
	Avg. Ambient Temperature	28 ^o C	Avg. Humidity
SI No.	Particulars	Value	52%
1.	Particulate Matter (PM ₁₀), µg/m ³	78.86	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³	38.65	60 µg/m ³
3.	SO ₂ , µg/m ³	18.81	80 µg/m ³
4.	NO ₂ , µg/m ³	26.66	80 µg/m ³
5.	Ozone, µg/m ³	14.28	180 µg/m ³
6.	NH ₃ , µg/m ³	16.65	400 µg/m ³
7.	CO, mg/m ³	0.73	4 mg/m ³
8.	Pb, µg/m ³	BDL	1 µg/m ³
9.	As, ng/m ³	BDL	6 ng/m ³
10.	Ni, ng/m ³	BDL	20 ng/m ³
11.	Benzene, µg/m ³	BDL	5 µg/m ³
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³

NOTE: BDL - Below Detection Limit


Sr. Chemist
Aditi R&D Services




Quality Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/2091

Date: 16.11.2022

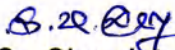
TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 10.11.2022 to 11.11.2022
- Date of Testing : 12.11.2022 – 14.11.2022
- Test Procedure : As per IS-5182

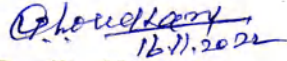
TEST RESULTS

LOCATION – RAILWAY COLONY , BHOJUDIH				
	Avg. Ambient Temperature	28 ⁰ C	Avg. Humidity	52%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	78.53	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	40.61	60 µg/m ³	
3.	SO ₂ , µg/m ³	20.27	80 µg/m ³	
4.	NO ₂ , µg/m ³	31.59	80 µg/m ³	
5.	Ozone, µg/m ³	17.61	180 µg/m ³	
6.	NH ₃ , µg/m ³	21.82	400 µg/m ³	
7.	CO, mg/m ³	1.23	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, µg/m ³	BDL	6 µg/m ³	
10.	Ni, µg/m ³	BDL	20 µg/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene µg/m ³	BDL	1 µg/m ³	

NOTE: BDL - Below Detection Limit


Sr. Chemist
Aditi R&D Services




16.11.2022
Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT							
ARDS/22-23/2056 Date: 12.11.2022		TATA STEEL JHARIA DIVISION							
Date of Monitoring		TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)							
10.11.2022 - 11.11.2022		Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant				
Work Order 4700092573/932 Dt. 20.07.2021		28	59	Clear	Not in Operational				
MONITORING RESULTS									
Sl. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) Avg. dB(A)			Noise level (Ambient standard) for Industrial Area as per CPCB Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time Residential Area	Night Time Residential Area
1.	Saharjuri School	56	46	53.4	42	40	41.11	65.00	55.00
2.	Lagla Gram Panchyat	58	48	55.4	40	39	39.53		
3.	Ichhar High School	61	52	58.5	43	41	42.11		
4.	Railway Colony Bhojidih	63	54	60.5	51	47	49.45		

B. R. Roy
Sr. Chemist
Aditi R&D Services



Pradip Kumar
Quality Manager
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/22-23/2092

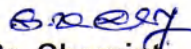
Date: 16.11.2022

TEST REPORT OF MINERALOGICAL COMPOSITION OF PARTICULATE MATTER

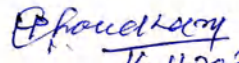
- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIHI)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 11.11.2022
- Date of Testing : 12.11.2022 to 14.11.2022

TEST RESULTS

SI No.	Particulars	Mineralogical Composition (%)			
		SiO ₂	FeO	Al ₂ O ₃	CaO
1.	Lagala Gram Panchayat	1.62	0.24	1.51	2.10
2.	Saharjuri School	2.6	0.92	1.82	2.74


Sr. Chemist
Aditi R&D Services




16.11.2022
Quality Manager
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/22-23/2124

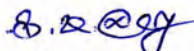
Date: 19.11.2022

TEST REPORT OF SURFACE WATER

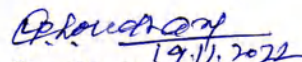
- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Sample Code : 1. Gowai River (Up Stream)
2. Gowai River (Dn. Stream)
3. Izri River (Up Stream)
4. Izri River (Dn. Stream)
- Date of Sample Collection: 10.11.2022
- Date of Testing : 12.11.2022 to 18.11.2022
- Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO₄

TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS 2296 Class - C	Test Method
		Gowai River (Up Stream)	Gowai River Dn. Stream	Izri River (Up Stream)	Izri River (Dn. Stream)		
1.	pH,	7.8	7.9	7.8	7.8	8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	665	680	670	735	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	10.4	11.2	10.4	12.5	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen ,mg/l	6.2	6.0	5.8	5.2	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	1.3	2.1	1.6	2.2	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	28	32	52	60	-	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.56	0.58	0.60	0.66	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	52	58	62	66	400	IS-3025 (P-24):1986


Sr. Chemist
Aditi R&D Services




19.11.2022
Quality Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/2928

Date: 20.02.2023

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBA D (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 13.02.2023 to 14.02.2023
- Date of Testing : 16.02.2023 - 18.02.2023
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION - ICCHAR HIGH SCHOOL				
	Avg. Ambient Temperature	27°C	Avg. Humidity	41%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	73.53	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	44.12	60 µg/m ³	
3.	SO ₂ , µg/m ³	21.17	80 µg/m ³	
4.	NO ₂ , µg/m ³	28.33	80 µg/m ³	
5.	Ozone, µg/m ³	15.10	180 µg/m ³	
6.	NH ₃ , µg/m ³	19.70	400 µg/m ³	
7.	CO, mg/m ³	0.44	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, ng/m ³	BDL	6 ng/m ³	
10.	Ni, ng/m ³	BDL	20 ng/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³	

NOTE: BDL - Below Detection Limit

A. Das,

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/22-23/2929

Date: 20.02.2023

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 13.02.2023 to 14.02.2023
- Date of Testing : 16.02.2023 - 18.02.2023
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION - LAGLA GRAM PANCHYAT					
Avg. Ambient Temperature		27°C	Avg. Humidity		41%
Sl No.	Particulars	Value	CPCB STANDARD		
1.	Particulate Matter (PM ₁₀), µg/m ³	91.95	100 µg/m ³		
2.	Particulate Matter (PM _{2.5}), µg/m ³	55.18	60 µg/m ³		
3.	SO ₂ , µg/m ³	19.78	80 µg/m ³		
4.	NO ₂ , µg/m ³	29.17	80 µg/m ³		
5.	Ozone, µg/m ³	15.88	180 µg/m ³		
6.	NH ₃ , µg/m ³	20.22	400 µg/m ³		
7.	CO, mg/m ³	0.63	4 mg/m ³		
8.	Pb, µg/m ³	BDL	1 µg/m ³		
9.	As, ng/m ³	BDL	6 ng/m ³		
10.	Ni, ng/m ³	BDL	20 ng/m ³		
11.	Benzene, µg/m ³	BDL	5 µg/m ³		
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³		

NOTE: BDL - Below Detection Limit

A. Das,

Sr. Chemist

Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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ADITI R&D SERVICES

Testing Laboratory

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(A Constituent Board of Quality Council of India)

ISO/IEC 17025:2017, ISO 9001:2015, ISO (OHSAS) 45001:2018 Certified

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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/ 2930

Date: 20.02.2023

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDI H)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 13.02.2023 to 14.02.2023
- Date of Testing : 16.02.2023 – 18.02.2023
- Test Procedure : As per IS-5182

TEST RESULTS

LOCATION – SAHARJURI SCHOOL

LOCATION – SAHARJURI SCHOOL				
	Avg. Ambient Temperature	27 ⁰ C	Avg. Humidity	41%
Sl No.	Particulars	Value	CPCB STANDARD	
1.	Particulate Matter (PM ₁₀), µg/m ³	89.08	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	53.38	60 µg/m ³	
3.	SO ₂ , µg/m ³	19.18	80 µg/m ³	
4.	NO ₂ , µg/m ³	28.19	80 µg/m ³	
5.	Ozone, µg/m ³	17.60	180 µg/m ³	
6.	NH ₃ , µg/m ³	15.48	400 µg/m ³	
7.	CO, mg/m ³	0.79	4 mg/m ³	
8.	Pb, µg/m ³	BDL	1 µg/m ³	
9.	As, ng/m ³	BDL	6 ng/m ³	
10.	Ni, ng/m ³	BDL	20 ng/m ³	
11.	Benzene, µg/m ³	BDL	5 µg/m ³	
12.	Benzoapyrene ng/m ³	BDL	1 ng/m ³	

NOTE: BDL - Below Detection Limit

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Ref. No.: - ARDS/22-23/2931

Date: 20.02.2023

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO.: : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 13.02.2023 to 14.02.2023
- Date of Testing : 16.02.2023 – 18.02.2023
- Test Procedure : As per IS-5182

TEST RESULTS

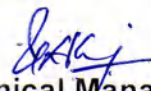
LOCATION – RAILWAY COLONY , BHOJUDIH			
	Avg. Ambient Temperature	27°C	Avg. Humidity
SI No.	Particulars	Value	CPCB STANDARD
1.	Particulate Matter (PM ₁₀), µg/m ³	84.71	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³	50.83	60 µg/m ³
3.	SO ₂ , µg/m ³	19.94	80 µg/m ³
4.	NO ₂ , µg/m ³	28.14	80 µg/m ³
5.	Ozone, µg/m ³	15.44	180 µg/m ³
6.	NH ₃ , µg/m ³	19.32	400 µg/m ³
7.	CO, mg/m ³	0.36	4 mg/m ³
8.	Pb, µg/m ³	BDL	1 µg/m ³
9.	As, µg/m ³	BDL	6 µg/m ³
10.	Ni, µg/m ³	BDL	20 µg/m ³
11.	Benzene, µg/m ³	BDL	5 µg/m ³
12.	Benzoapyrene µg/m ³	BDL	1 µg/m ³

NOTE: BDL - Below Detection Limit

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT			
ARDS/22-23/2844 Date: 11.02.2023	TATA STEEL JHARIA DIVISION			
Date of Monitoring	TATA STEEL COLLIERY (SAND LEASE AREA, BHOJUDIH) DIST. - DHANBAD (JHARKHAND)			
08.02.2023 - 09.02.2023	Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant
Work Order 4700092573/932 Dt. 20.07.2021	27	41	Clear	Not in Operational

MONITORING RESULTS

Sl. No	Place of Monitoring	Day Time (6 AM to 10 PM) Avg. dB(A)			Night Time (10 PM to 6 AM) Avg. dB(A)			Noise level (Ambient standard) for Industrial Area as per CPCB Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 notified vide S.O. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Day Time	Night Time
LOCATION		65.00	55.00	56.4	42	38	40.45	Residential Area	Residential Area
SAND LEASE AREA									
1.	Saharjuri School								
2.	Lagla Gram Panchyat								
3.	Icchar High School								
4.	Railway Colony Bhojidih								

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Ref. No.: - ARDS/22-23/2914

Date: 18.02.2023

TEST REPORT OF MINERALOGICAL COMPOSITION OF PARTICULATE MATTER

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIH)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Date of Sample Collection : 14.02.2023
- Date of Testing : 15.02.2023 to 17.02.2023

TEST RESULTS

Sl No.	Particulars	Mineralogical Composition (%)			
		SiO ₂	FeO	Al ₂ O ₃	CaO
1.	Icchar High School	1.66	0.09	1.18	2.2
2.	Railway Colony Bhojudih	1.9	0.16	1.26	2.58

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/22-23/2923

Date: 20.02.2023

TEST REPORT OF SURFACE WATER

- Name of the industry : TATA STEEL JHARIA DIVISION
TATA STEEL COLLIERY
(SAND LEASE AREA, BHOJUDIHI)
DIST. - DHANBAD (JHARKHAND)
- Work Order Ref. NO. : 4700092573/932 Dt. 20.07.2021
- Sample Code :
 1. Gowai River (Up Stream)
 2. Gowai River (Dn. Stream)
 3. Izri River (Up Stream)
 4. Izri River (Dn. Stream)
- Date of Sample Collection: 13.02.2023
- Date of Testing : 14.02.2023 to 18.02.2023
- Test : pH, TDS, Turbidity, DO, BOD, C I, F, SO₄

TEST RESULT

Sl. No.	PARAMETERS OF TEST	VALUE				Limit as per IS 2296 Class - C	Test Method
		Gowai River (Up Stream)	Gowai River Dn. Stream	Izri River (Up Stream)	Izri River (Dn. Stream)		
1.	pH	7.6	7.7	7.2	7.4	6.5 - 8.5	IS-3025 (P-11): 1983
2.	Total Dissolved Solids, mg/l	340	325	389	378	1500 (Max.)	IS-3025 (P-16): 1984
3.	Turbidity, NTU	02	03	01	01	-	IS-3025 (P-10):1984
4.	Dissolved Oxygen, mg/l	5.2	6.4	6.2	5.8	4.0 (Min)	IS-3025 (P-38):1989
5.	Bio chemical Oxygen Demand, mg/l	2.2	2.0	1.4	1.6	3.0	IS-3025 (P-44):1994
6.	Chloride as Cl, mg/l	54	51.05	69.9	67.9	-	IS-3025 (P-32):1988
7.	Fluoride as F, mg/l	0.64	0.67	0.56	0.60	1.5	IS-3025 (P-60):2008
8.	Sulphate as SO ₄ , mg/l	64	65	58	52	400	IS-3025 (P-24):1986

A. Das,

Sr. Chemist
Aditi R&D Services



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Aditi R&D Services, Sindri

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Executive Summery

Tata Steel Foundation is focused upon co-creating solutions, with tribal and excluded communities, to address their development challenges. Working for the overall development of community through its interventions in Health, livelihood, Education and Skill development.

Followings are the key highlights of the work carried out by Tata Steel Foundation in FY'23:

- In Public Health camp, 24968 villagers from 35 villages got free health check-up and medicines.
- A total of 79 camps were organized for Non communicable diseases (hypertension, diabetes, breast, and oral cancers) in which 2,296 beneficiaries got screened and were provided health services.
- Under the Ni-kshya Mitra program, 673 food packets were provided in Baghmara block.
- Under Cataract, 85 Nukar natak were organised to create awareness among villagers on blindness and a total of Eight camps organized in which 1,021 surgeries were successfully done.
- In Nutritional Garden, TSF Jamadoba distributed seed, plants and Agri materials to 1500 Households and wall paintings around nutrition were done at 180 places in different villages.
- Tata Steel started SPARSH centre with technical collaboration with LEPRASociety in which 1570 patients got benefitted.
- Under RISHTA project, TSF Jamadoba is working with 1465 beneficiaries through Pre and post-test.
- Total number of students enrolled in Pre-Matriculation Couching in FY'23 is 2378 in 18 centres.
- TSF Jamadoba has recently organized the `placement-drives for the job-openings at Tata Electronics Private Limited (TEPL) in which 24 candidates joined Tata Electronics.
- The total enrolment of the candidates in Community Youth coaching program for Uniform services is 64.
- Tata Steel Foundation (TSF), in collaboration with NIIT Foundation (NF), has been offering IT and English Courses in which total enrolment is 755.
- To promote paddy cultivation a total of 92 farmers (36 from Jamadoba and 56 from Sijua) of the leasehold area were supported with paddy seeds having acreage of 92 acres.
- 20 acre of horticulture plantation has been done through providing plants of Banana, papaya, Mango, coconut, guava, and lemon.
- TSF Jamadoba is supporting 140 landless families with critical inputs around various types of micro enterprises.
- Gender and Leadership for Disha, in which 240 women leaders are being developed. Out of 240, 60 women have completed training till module 4.
- Tata feeder centre, training of budding sports talent in three sporting segments i.e., Football, Archery and Athletics. As of now the total intake of the players under these sporting segments is 188.

Index Page

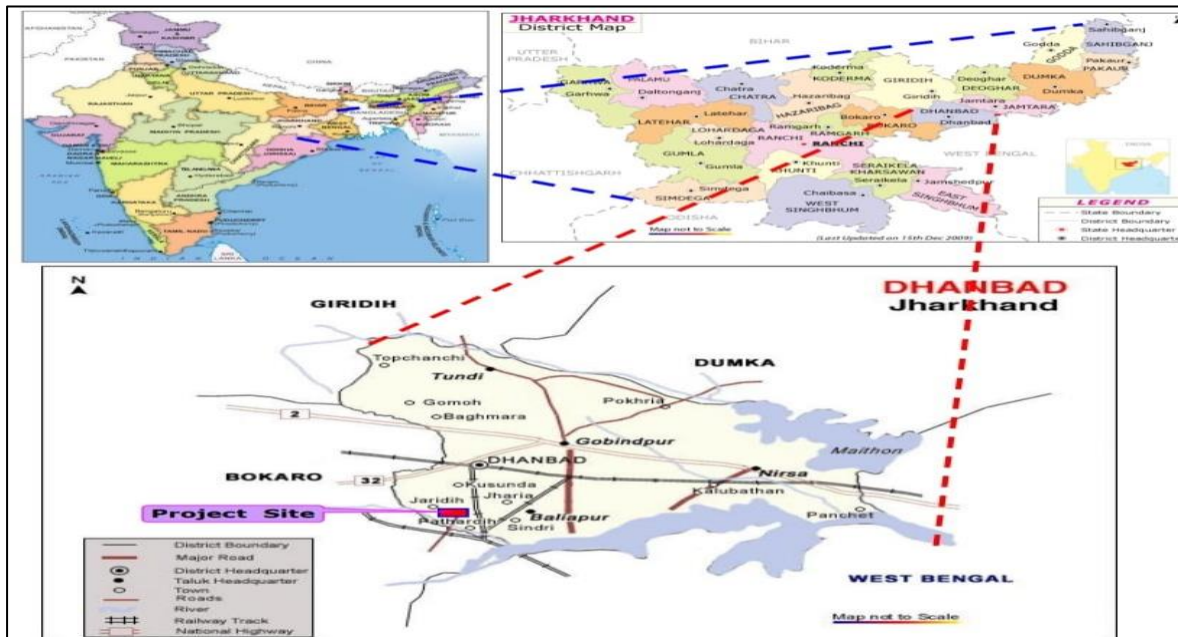
S. No.	Particulars	Page No.	No. of Beneficiary
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INTRODUCTION

Tata Steel Foundation (the Foundation), a wholly owned subsidiary of Tata Steel Limited, was incorporated on August 16, 2016, under Section 8 of the Companies Act 2013. The Foundation is focused upon co-creating solutions, with tribal and excluded communities, to address their development challenges. During this process of co-creation, the Foundation endeavours to develop and implement change models that are replicable at a national scale, enable significant and lasting betterment in the well-being of communities proximate to the Company’s operating locations and embed a societal perspective in key business decisions. The Foundation strives for excellence by ensuring that all programmes are aligned with community needs and focus on national priority areas enabling communities to access and control resources to improve the quality of their lives with dignity.



TSF, Jamadoba is working in 44 villages of three blocks (Jharia, Dhanbad and Baghmara). Working in different areas like Health, Livelihood, Education, and Infrastructural development for livelihood enhancement and make community self-sufficient.



PUBLIC HEALTH

Tata Steel provides both curative and preventive healthcare services to improve levels of health amongst the community. Tata Steel Foundation is committed to provide best health care facility to people in Tata Steel leasehold area. TSF Jamadoba, acts as strengthening agency for awareness generation, promotion of good health and hygiene, and bridge gap between community and government health facilities.

Major Achievement:

- In Public Health camp, 24968 villagers from 35 villages got free health check-up and medicines.
- Focussing the preventive aspects of public health, a total of 79 camps were organized for Non communicable diseases (hypertension, diabetes, breast, and oral cancers) in which 2296 beneficiaries got screened and were provided health services.
- Under the Ni-kshya Mitra program, 673 food packets were provided in Baghmara block.

Nutritional Garden:

The kitchen/home gardens have been found to play an important role in improving food security for the poor rural household. Keeping in view the importance of vegetables in daily diets and its low availability, TSF Jamadoba has started Nutritional Garden program for villagers of Tata Steel lease hold area. TSF Jamadoba, provides seed, plants and Agri materials to villagers for Kitchen Garden and have the benefits of good quality of food without using external fertilizer or chemicals.

TSF Jamadoba, distributed seed, plants and Agri materials to 1500 Households and wall paintings around nutrition were done at 180 places in different villages.

Case Study of Mrs. Dhani Devi

“Connecting with nature is connecting with God” is the story of Dhani Devi (Age -29) wife of Mr. Devan Kalindi, and resident of Harijan Tola of Patia Panchayat. TSF Jamadoba reached her during seed distribution campaign in her village. During the home visit TSF Jamadoba team came to know that they have to rely on daily wages for their livelihood as they are landless. After monitoring the troublesome and pathetic condition of the family during home visit. Mrs. Dhani Devi was suggested to do kitchen gardening and explained about the benefits of kitchen garden. Which will not only increase her family nutritional intake but also save money which they spend on buying vegetable or for medical purpose which arises due to malnourishment. Kitchen garden will also help her generate additional income if the produce is high through selling of vegetable.

She decided to own an uncultivated and useless land in her village with the consent of community and SHG members. The issue was discussed in front of village community, and she got a small piece of land. TSF Jamadoba has supported her with seed, plants and Agri materials and provided one day training session.

Now after three months, she has done one of the best kitchen gardens and promised to continue it in near future. Mrs. Dhani Devi thanked TSF Jamadoba team for their effort and handholding support.



CATARACT

Tata steel has collaborated with Shankar Netralaya during the year 2017-18 to do cataract camps through Mobile Eye surgical unit (MESU) which carries out operations for the cataract infected patients. Under the program for preventable blindness a total of 85 Nukar natak were organised to create awareness among villagers on blindness because of cataract in Tata Steel lease hold area villages and a total of Eight camp organised (2 at Baghmara CHC, Rajganj, 2 at Bhelatand and 3 at Digwadih) in which 1441 patient were screened, and total surgery done is 1,021.

Case Study of Mr. Niranjan Mahato:

It has been correctly said “I have a very poor eyesight, and I can’t imagine a world without my glasses or contacts”. Mr. Niranjan Mahato of Nunidih Basti, was working as a helper at Tata Steel canteen, he uses to put coal in the cooking stove. During his mid-forties he notice that his vision is getting blur. He started wearing spectacles for clear vision. His right eye vision deteriorated dramatically.

He gets to know about Tata Steel Foundation, Eye check-up camp from one of the beneficiaries residing near his house. So, he visited the camp and diagnosed with cataract. After all the screening done by doctors, operation date was given. But on the date of operation, he was diagnosed with Hypertension and was referred to TSF Medical department. He visited TSF, Jamadoba and the medical team provided all the necessary support and medicines. The next day he visited again as per the advice of TSF medical team, and he was found normal and sent for cataract surgery.

On 20.09.2022, Cataract surgery was done. And now he can see the world clearly and does all his work without any support from others. He expresses his happiness and gratitude to Tata Steel Foundation.



RISHTA

Regional Initiative for Safe Sexual Health by Today's Adolescents, formally known as "Project RISHTA" is a consortium project on Adolescents' Reproductive and Sexual Health, which aims "to improve the sexual and reproductive health and wellbeing of adolescents in Jharia Division.

RISHTA project aims at empowering adolescents to know and exercise their adolescent rights and be sensitive to issues of adolescent health (preventive and curative). Furthermore, pregnancy during adolescence is associated with higher risk of health problems like anaemia, sexually transmitted infections, unsafe abortion, and mental disorders (like depression). Pregnant adolescents also bear negative social consequences and often have to leave school reducing their employability leading to long-term economic implications. Unmet needs for family planning especially for spacing are high among adolescents.

Key objectives of RISHTA project

- Enable adolescents to take right decision with right information for their future.
- Inculcating the importance of adolescents' health, which otherwise remains ignored.
- Reduce Early Age of Marriage across the block
- Inducing the importance of life skills in adolescents as catalysts to cater to their life approach in a more progressive manner.
- Orienting the adolescents with adolescent rights which are powerful tools for them to exercise.



- Number of adolescents reached through ARSH sessions -1465.
- 4 number of National/International Day observed in which 567 number of participants participated.
- 4 Kishor Navdampatti samaroh was organized with 56 adolescent couple participation.



- Total 123 meeting with AWW, Asha and PRI member with 1470 participants.
- Total 3 Child marriage delayed.
- 135 Sathiya were trained around various aspects of sexual and reproductive health
- Total 13 no. of pregnancy delayed.

Case Study of Mohini Kumari Khetrupal

Mohini Kumari Khetrupal is 20 years (DOB – 11/11/2002) old girl who believes that education and hard work never goes in vain. Her father Mr. Deepak Kumar Khetrupal is a daily wage labor, and her mother Mrs. Anjana Devi is a house manager. She has one younger sibling, who works as a daily wage laborer with his father. The monthly income of the family was Rs. 8000 /-. And the financial condition was not good.

She is associated with RISHTA team for last 4 years. She has completed her intermediate and wanted to help her family financially. One day Mohini came to attend RISHTA meeting in which one of the TSF staff was discussing on F&B training which is given by PACE Centre Jamshedpur. She found this training fruitful for her career growth and to make her family financial stable.



She contacted RISHTA team after few days of training to know the procedure of selection in F&B course and wanted RISHTA team to convince her parents. The team visited her house and counselled her parents and convinced them.

The team lined up with PACE training Centre for F&B training and Mohini got admission in 2 months training program. After successful completion of her training, she got placed at Ramada Hotel Jamshedpur. Now she is earning Rs. 14,500/- per month with free accommodation, which enabled her to take care of both her and her family financial need.

With regular guidance of TSF RISHTA team, she completed her graduation and now enrolled herself in Hotel Management course for departmental promotion. She and her family are very thankful to TSF Jamadoba and RISHTA team for all the support and guidance.

SPARSH

In 2005, India was declared with leprosy eliminated. Vertical system comprising Non-Medical Assistants and Supervisors were abolished. Health personals dedicated for NLEP2 have been deployed in other health vertical. Rigorous screening and monitoring system became poor post 2005. Considering the fact of high endemicity in Dhanbad (adjacent to

Purulia), a joint venture namely “SPARSH centre- A healing Touch” had been started in 2009.

Above all, new cases have been found in special pockets of India through Leprosy Case Detection Campaign by NLEP, GoI (14th September to 4th October 2016). According to WHO report, India accounts for 60% of total new cases of Leprosy across the world. Many new cases have been found in Bihar, Jharkhand, and Chhattisgarh.

Tata Steel started SPARSH centre with technical collaboration with LEPRO Society, for the benefit of the Leprosy affected persons in the year 2009 (26th October) and the reconstructive surgery unit started during the year 2017. This reconstructive surgery unit which is one-of-its-kind in Eastern India will play a major role in the leprosy eradication programmes, benefitting the patients from the States of Jharkhand and Bihar.



Coverage Area

The SPARSH centre caters to the patients from Jharkhand and Bihar. Till today patients from 13 blocks have been able to access health services.

Objective of SPARSH Centre

- Provide healthcare facilities to leprosy affected people and helping them to cope up with the societal stigma attached to the disease.
- To correct the deformities of people suffering from Leprosy, so that they come in the mainstream society.
- Restoring livelihood opportunities for those who have undergone reconstructive surgery.

Services offered

- OPD services for patients suffering from leprosy
- Providing specially designed footwear to the patients
- Raising awareness regarding leprosy through a Mobile IEC Van in 200 villages in Dhanbad district
- Capacity building of health officials in leprosy

Key achievements during this period

- A total of 1570 persons suffering from leprosy and related illness were provided health facilities.

- 1,53,500 persons were covered under the IEC campaign which creates awareness around the early identification and treatment of leprosy in 200 villages of the Dhanbad district.
- 454 MCR footwear manufactured for person affected of Leprosy.
- Reconstructive surgery to correct deformity was organised in which total 23 RCS was done.

Case Study of Mr. Prahalad Mahato:

Mr. Prahalad Mahato (Age – 26 years) son of Ramlochan Mahto, Resident of Nischitpur village, Baghmara. He lives in his sister's house in Baghara village due to leprosy. His wife and son left him and his father lives alone at Nischitpur village, where he works as a daily wage worker.

He was referred by PHC Baghmara for reconstructive surgery at SPARSH centre to correct left claw hand after one year treatment from MDT. During examination, SPARSH Doctors found that he is suffering with Type II(ENL) reaction with right Ulnar, bilateral lateral popliteal and posterior tibial neuritis.

Prahalad Mahato was suffering from Leprosy for last 4 year and started his treatment at Nirmal Leprosy Hospital, Gobindpur for one year. During his treatment he get Lepra reaction. Then he started his treatment at MDT, PHC Baghmara.



After examination and diagnose at SPARSH centre, the treatment started with Steroid therapy for a period of one month. The reaction was subsided, and muscle power improved. Again, he gets recurrent reaction. The centre started second line drug for Lepra reaction with clofazimine therapy with proper counselling for a period of 4 month. He was declared cured of ENL reaction.

The reason of reaction was psychological problem caused due to disease, family, and future. The centre counsels Prahalad and his family time to time for proper case holding and management. Finally, he copped and accepted mental health treatment and case management of SPARSH centre.



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Now he is doing good and works as a daily wage worker with his father at his hometown. He believes that his deformity will correct, and his family will live together after surgery. He is very thankful to TSF Jamadoba and SPARSH team.

EDUCATION

Pre-Matriculation coaching:

PMC (Pre-Matriculation Coaching) classes have been running since 2012 in government and private (J.A.C. Board) schools for class VI to X in the leasehold areas of Jamadoba and Sijua. PMC was started in 2011-12 with 1,025 students at 11 centres, especially for the poor students, who cannot afford private tuition classes for bringing improvement in their studies. Pre- Matriculation coaching classes have been operated in two parts from Class VIII - X and Preparatory classes for classes VI to VII.

Total number of students enrolled last year (FY22) was 1548 in 09 centres. The Pre-Matriculation Coaching class is a boon for the students as it has been observed that the students have gained a lot from this program. Due to this program, they have been able to score good marks in their academic exams. According to the survey done before starting of PMC class, the passing % of the class 10th was 70%. In FY 22, TSF Jamadoba has achieved 100% result in the matriculation exam.

The purpose of running this Pre-Matriculation Coaching class is to provide quality tuitions to the poor students in English, Math, and Science. The total number of teachers in one centre is 5 - two teachers for Classes VI-VII and three teachers for classes VIII-X. The teachers are being paid through the school committees or the SHGs (Self Help Group).

In FY 23, TSF Jamadoba have conducted PMC classes at 18 centres covering 2378 students.



Jyoti Fellowship Programme:

As part of affirmative action policy and effort towards inclusive growth and development of Scheduled Caste and Scheduled Tribe community. Tata Steel Foundation awarded Jyoti Fellowship to 346 meritorious students of Jamadoba region. Total scholarship amount is Rs. 17,98,750/-.

The objective of Tata Steel Jyoti Fellowship is to ensure that meritorious student from economically- challenged SC/ ST families have an opportunity to continue and pursue their

educational goals and fulfil career aspirations. Tata Steel's Tribal Cultural Society (TCS) identifies deserving candidates from operational areas of the company on the merit-based test.

Language Classes:

Language classes on `Ol-chiki` script was started for the Santali communities residing in and around Tata Steel leasehold areas that is Bhowra-parsiabad village (Jamadoba) and Bhelatand Majhi tola (Sijua location). The classes are held during the weekend. The total enrolment is 71 (JMB- 33 students and Sijua- 38 students).



Employability Programme

Placement Drives

With an objective to provide employment opportunity for youths. TSF Jamadoba has recently organized the `placement-drives (for the job-openings at Tata Electronics Private Limited (TEPL) in collaboration with the Model Career Centre, Jamshedpur.

The placement –drive was specially meant for the local female candidates who are aged between 18-20 years (21 for the SC/ST category) and have passed out their intermediate exam during the year 2021 and 2022.

This placement drive was attended by total 128 candidates out of which 64 were shortlisted and finally 24 female candidates from Tata Steel leasehold areas have joined Tata Electronics.



Community Youth coaching program for Uniform services:

With an objective to support the youth prepare for entry into uniformed services, TSF Jamadoba is running ``Community Youth Coaching Program`` for the local youths. The coaching is provided to prepare for written as well as physical tests for clearing various competitive exam(s) of the Uniformed Services like State Police, CMPF like BSF, CRPF, ITBP, Coast Guards, Army, Navy, and Air Force etc.

As of now, the total enrolment of the candidates is 64 (31 at Jamadoba and 33 at Sijua). While this coaching program, the enrolled candidates have started appearing at the competitive exam related to the Uniformed Services.

Total 29 candidates (11 from Jamadoba, 18 from Sijua) have appeared at the SSC GD EXAM-2022 which was held in January`23. The SSC has declared the results of SSC GD Exam on 08th April,2023. Total 9 candidates (6 from Sijua and 3 from Jamadoba) have cleared the

written exam of SSC GD. The physical exam is likely to be held soon for the candidates who have cleared the written exam of SSC GD-2022.



Skill development centre:

Tata Steel Foundation (TSF), in collaboration with NIIT Foundation (NF), has been offering IT and English Courses in small towns and interior villages of the Company's operational areas since FY15. This program was initiated in response to the high demand for these skills among youth. The goal is to empower communities within Tata Steel operational areas by developing IT (Information Technology) and English capabilities among them. This would include youths, women (SHG, ANM, Asha, etc), adolescents and migrant laborers.

Progress made during the period

- A total of 755 enrolment has been done for FY'23.
- Out of 755 – 375 enrolled in Jamadoba and 380 in Sijua centre.
- A total of 677 students completed their course – 330 at Jamadoba and 347 at Sijua.



LIVELIHOOD ENHANCEMENT

Support to farmers during kharif season:

To promote paddy cultivation a total of 92 farmers (36 from Jamadoba and 56 from Sijua) of the leasehold area were supported with paddy seeds having acreage of 92 acres. The improved varieties of seeds promoted were KV21 and Purnima Gold. The farmers contributed 50% of the cost of seeds and each farmer was supported with a maximum of 1 acre. A total of 200 kg of seeds were promoted (164 kg of Purnima Gold seeds and 36 kg of KV2 seeds).

Horticulture Development:

Horticulture development is a very useful method of income augmentation for the farmers. During the year 20 acre of horticulture plantation has been done through providing plants of Banana, papaya, Mango, coconut, guava, and lemon. Out of which the district horticulture department has also supported in this initiative by providing plants for 10 acres. In which total of 142 farmers got benefited.



Leveraging Government Resources:

Community mobilization has been done by raising awareness levels of the farmers so that they can access the agriculture related schemes. During the year following progress has been made:

- 13 farmers have received 5350 banana and papaya plant from District Horticulture Department Dhanbad having an acreage of 6 acre of land.
- 4 animal health camps have been organized with support of district animal husbandry department in which a total of 1414 animal received medical check-up.
- TSF Jamadoba in collaboration with MSME Dhanbad has organised 30 days stitching training program in Petia Panchyat Bhawan, Petiya.
- FLD project of District Horticulture Department is being implemented in Tundi.
- 15 Diesel pump sets and 2 tractors was lesioned with govt. on 90% subsidiary under which 15 farmers got benefitted.
- 331 farmers got free elephant yam seed from District Horticulture Department.
- 160 women attended 3 days training on mushroom farming and received free Mushroom spawn.



Distribution of Micro-Enterprise Toolkit:

Micro-Enterprise businesses not only help in promoting quality of life for business runners but also add value to the local economy. They produce numerous jobs at small-scale, improve income, and boost purchasing power.

TSF Jamadoba is supporting 140 landless families with critical inputs around various types of micro enterprises which will help them in self-employment and entrepreneurship.



Promoting Fish Farming:

“Promoting fish farming” is one of the key initiatives towards improving the livelihood of the people living in Tata Steel leasehold area. During the FY’23, total 52 ponds were supported with fingerlings having 208 beneficiaries. Total 312 kg of fingerlings were distributed. The fingerlings were provided at 50% contribution from the pond-beneficiaries.

Besides providing fingerlings to the pond beneficiaries and build their capacities, much emphasis is given on improving the feeding practice. In this respect, TSF Jamadoba is facilitating farmers in getting proper-feed packets from the District Fishery Department at 50% subsidy.

Case Study of Mr. Abhimanyu Mahato:

A young farmer Mr. Abhimanyu Mahato (Age 35), his father’s name Mr. Shankar Mahato resident of Patia Panchayat of Dhanbad district. Just a matric pass is growing rapidly with increase interest in the field of fish production. It is correctly said “The capacity to learn is a gift; the ability to learn is a skill; the willingness to learn is a choice.” With his willingness and support from TSF Jamadoba, made him earn his livelihood with dignity.

He used to support his family by doing agriculture which was not sufficient for overall development and give a dignified life to his family. Then he comes to know about Tata Steel Foundation and about its programmes from his friend. With keen interest in fish farming, he reached TSF Jamadoba office. And after knowing that TSF Jamadoba is supporting with fingerlings and capacity building on fish farming.

On the next day he meets TSF field staff and gives the application for fish farming. After that he received 5 days training on fish farming from Government Fishery Department at Ranchi.

When he returned from training, decided to start his own business of fish production. Mr. Abhimanyu Mahato improved his pond by expanding the area of pond to 1.5 acer and cleaned grass under water that can harm fishes. Then the TSF provided 100 kg fingerlings at 50% subsidy. Currently his annual income is one Lakh from Fish farming.

Mr. Abhimanyu Mahato is very happy with the support provided by TSF and said that now he can send his children for higher education and live his life with dignity. The help from TSF Jamadoba made him economically as well as socially strong.

LIVELIHOOD EMPOWERMENT

Disha Training:

The primary objective of Disha project is to enable women leaders through social-political empowerment by making systematic investments in community-based organizations to enhance their participation and productivity, and to create and sustain model of rural women. The project has an objective to increase knowledge, awareness, and income of women through capacity building.

Training of active SHG members on Gender and Leadership for Disha, in which 240 women leaders are being developed. Out of 240, 60 women have completed training till module 4.



SPORTS

Organising sporting events/activities etc. has been a key strategy for ensuring the community engagement and to nurture the local young talents across Tata Steel leasehold areas. The children from the leasehold-villages will be given opportunities to take part in various sporting events/ activities towards shaping their future career in the Sports field.



During this year in the feeder centre training of budding sports talent is being done in three sporting segments i.e., Football, Archery and Athletics. As of now the total intake of the players under these sporting segments is 188.

Major achievement in Sports:

Achievement in Archery

S. No.	Name	Village	Medal	Event
1	Ms. Nazia Parween	Digwadih No.10	Selected	Centre for excellence (Govt. of Jharkhand), U-16
2	Ms. Madhu Kumari	Patherdih	Selected	Centre for excellence (Govt. of Jharkhand), U-16
3	Ms. Riya Kumari	Digwadih No.10	Selected	Centre for excellence (Govt. of Jharkhand), U-16
4	Ms. Pinky Kumari	Jealgora	Selected	Centre for excellence (Govt. of Jharkhand), U-16
5	Ms. Simran Kumari	Jealgora	Selected	Centre for excellence (Govt. of Jharkhand), U-16
6	Ms. Versha Chakroborty	Noonidih	Selected	Centre for excellence (Govt. of Jharkhand), U-16
7	Khusi Kumari	Digwadih	Gold	NTPC Mini National Archery Competition
8	Md. Adil	Digwadih	Selected	Tata Archery Academy

Achievement in Football

S. No.	Name	Village	Selection	Event
9	Mr. Pankaj Basti	Bhowra -36 No. PO Bhowra	Selected	National Camp at Bhubneshwar
10	Mr. Mrinal	Jealgora Basti	Selected	National Camp at Bhubneshwar
11	Mr. Prashant Diger	Nagina Bazar, Mohalbani	Selected	Residential sports training centre, Kumaitha Stadium Deoghar
12	Ms. Anju Sharma	Domgarh	Selected	Jharkhand state team camp u-17 at Chaibasa
13	Master Narayan Mahato	Digwadih No.10	Selected	SAIL Football Academy, Bokaro
14	Raj Kr. Mahato	Upper Dungri	Selected	CISF Delhi
15	Md. Irfan	Bhaga	Selected	Kuljeet Football Academy, Punjab
16	Mr. Vishnu Hajari	Noonidih Basti	Selected	Kuljeet Football Academy, Punjab
17	Mr. Vikky Kr. Mahato	Dumariatand	Selected	Kuljeet Football Academy, Punjab

INFRASTRUCTURE

- 7600 people got benefitted through construction of 6,193 mts. long roads in 10 villages (Sijua 12 no., Dukhitdih, Rampur 2, Chetudih, Kanchanpur Bauritola, Upper dungri, Petiya, Banskapuria, Suyakanali, Malkera) and drain of length 1,552 mts were constructed in (Belubakhar, Lahargora, Purnadih, Sundarpur, Petiya, Kalimela, Lower Dungri, Upper Dungri, Digwadih Mahato basti, Kasiatand, Fatehpur, Rampur, Barughutu, Malkera illages) of Tata Steel intervention area.



- 1000 people got benefitted through repair of 4 deep bore well in 4 villages ((Lower Dungri, Rampur Md tola, Kapuria, Kanchanpur)



- In 11 villages (Debogram harijan tola, Debogram bangali tola, Banskapuria, Azadnagar, Belubakhar, Suyakanali, Upper dungri, Dungri no.3, Dungri no.7, Digwadih Majhi basti, Sunderpur) of Tata Steel leasehold area, 11,435 people got benefitted through installation of 8,878 mts. long piped drinking water supply.



- Renovation and construction of 282 mts long irrigation drain which is benefitting 34 farmers in 5 villages (Chattand, Petiya, Chaitudih, Kasiatand, Lower Dungri).



- In 4 villages of Sijua (Banskapuria, Rampur, Debogram, Sawaldih) deepening of 4 ponds is done to solve water crises at village level.



- 9080 people got benefitted through construction of 39 Rural infrastructure like pond steps (17), sitting platform (15), community center (3), culvert (1), community shed (2), Biswanath club.

