



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीज़न, चासनाला
COLLIERIES DIVISION, CHASNALLA

Ref: GM./Tasra/EC (Comp-Mine)/Dec.24/70

Date: 11.12.2024

To,
The Additional Director(s),
EI Division, MOEF & CC.
Paryavaran Bhawan, CGO Complex,
Lodhi Road, New Delhi – 110003

Sub: Status of Compliance to the Condition stipulated in the Environmental Clearance granted by MoEF for Tasra Coal Mining Project (4 MTPA), BSI.-Collieries, SAIL for the period April' 2024 to Sept.' 2024.

Ref: EC granted vide Ref. no. J-11015/122/2007-IA-II(M) dated 13th October, 2009.


Dear Sir,

Please find enclosed herewith the updated six monthly compliance report for the period April' 2024 to Sept.' 2024 with respect to the condition stipulated in the Environment Clearance granted by MoEF & CC, New Delhi vide letter no. J-11015/122/2007-IA-II (M) dated 13th October, 2009 for Tasra Coal Mine Project of M/s Steel Authority of India Limited for kind perusal.

Hard copy of the report is enclosed.

Thanking you,

Yours faithfully,
For Steel Authority of India Limited


(S. K. Kureel)
General Manager (Tasra)

Encl: As above

Copy to:

1. The Additional Director(s),
MOEF&CC (Govt. of India),
Integrated Regional office
2nd Floor, Headquater- Jharkhand State Housing Board,
Harmu Chock, Ranchi -834002
2. The member Secretary
Central Pollution Control Board,
Parivesh Bhawan, CBD-Cum Office complex,
East Arjun Nagar, Delhi – 110032
3. The Member Secretary,
JSPCB, Township Administration Building,
Hee Complex, Dhurwa, Ranchi 834004.
4. The Regional Officer,
Regional Office, JSPCB, Dhanbad-826001.

Collieries Division, Chasnalla, Dhanbad, Jharkhand-828135, Tel: 0326-2385-001, 2385-002; email: gmtasra@gmail.com, website: www.sail.co.in

कोलियरीज डिवीज़न, चासनाला, धनबाद, झारखण्ड-828135, दूरभाष: 0326-2385-001, 2385-002, ईमेल: gmtasra@gmail.com, वेबसाइट: www.sail.co.in

हर किसी की ज़िन्दगी से जुड़ा हुआ है सेल

There's a little bit of SAIL in everybody's life

Half yearly Compliance to the Condition stipulated in the Environmental Clearance granted by MoEF for Tasra Coal Mining Project (4 MTPA) for the period April' 2024 to Sept.2024' 2024.

(EC granted vide Ref. no. J-11015/122/2007-IA-II(M) dated 13th October, 2009)

(A)

Specific Conditions: -

Cond. No.	Conditions Imposed	Compliance Status as on Sept.' 2024
(i)	The Environmental Clearance is restricted to opencast operations only. A separate application shall be submitted for environmental clearance for Underground Mining Project proposed below 260m below ground level.	Noted for compliance. Tasra Coal Mining Project is planned for opencast mining upto 260m below ground level. The life of the mine is 28 years including 2 years of construction i.e. development period. Reserves below 260m depth will be extracted by underground mining method for which a separate application will be submitted for grant of Environmental Clearance before underground mining operations are undertaken. Presently depth of mine is 55m only.
(ii)	An application for environmental clearance shall be made within 3 months for the establishment of Coal Washery of 3.5 MTPA Capacity proposed within the ML area.	Complied. Environmental Clearance for Tasra Pit Head Coking Coal Washery for 3.5 MTPA has been obtained and granted/obtained vide EC identification no. EC24A0801JH5355205N dated 14.11.2024. The EC is attached as Annexure-I
(iii)	Mining shall be carried out maintaining a minimum distance of 100m between the river Damodar and Quarry edge along northern boundary. The embankment to be constructed along the river Damodar adjoining quarry shall be based on peak flow and shall be at least 3m above HFL. The slope of the embankment shall be at least 2:1 towards the ML, compacted and stone pitching down towards the river and shall be stabilized with plantation. Material such as OB shall be tested for strength before using for construction of embankment.	Noted. 1. Application for acquisition of 225 acres of private land has been submitted to District Authority under LARR Act, 2013 for expansion of the mine which also includes the land required for construction of embankment. 2. Public Hearing of Draft R&R has been conducted and land acquisition process is under final stage. 3. Construction of Embankment shall be constructed as per the approved Mining Plan. Construct the embankment shall be done after acquire the intervening area. 4. Work order has been issued to IIT- ISM, Dhanbad, to conduct a study on the Nala diversion and the construction of an embankment on the Damodar River. Subsequent actions shall be taken upon the submission of ISM's report. Copy of work order is attached as Annexure-II .

		<p>5. All necessary steps /actions have been undertaken to ensure that O/B dumping occurs at a minimum distance of 100 meters away from the River Damodar.</p>
(iv)	<p>The plan for diversion and realignment of the DomohaniJore and CilatuJore and modification of the natural surface drainage and design of the diversion canal shall be following the natural topography of the region to be done in consultation and approval of the concerned State Flood and Irrigation Department, dimension and depth of the nala shall be finalized based on the peak flow of the water.</p>	<p>As per the mining schedule of Tasra OCP, the diversion and realignment of DomohaniJore and CilatuJore is planned beyond 8th year from the commencement of commercial production.</p> <p>However, Work order has been issued to IIT- ISM, Dhanbad, to conduct a study on the Nala diversion(DomohaniJore and Cilatu Jore) and the construction of an embankment on the Damodar River. Subsequent actions will be taken upon the submission of IIT- ISM's Dhanbad report.</p> <p>Copy of work order is attached as previousAnnexure-II.</p>
(v)	<p>Top soil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used within a year of generation for reclamation and development of green belt.</p>	<p>Interim mining operation in Tasra OCP has been started in a very small scale from existing old quarry, previously worked by BCCL. After acquisition of 15.17 acres of land in December 2017 top soil was very minimal and the same was utilized partially for development of park at Chasnalla and remaining top soil has been stacked by the side of OB dump due to paucity of space.</p> <p>However, MDO has been appointed and all compliance will be taken up.</p> <p>Land acquisition process is being carried out through District Authority under LARR Act, 2013. On long term leases basis, SAIL has acquired 60 acres of FCIL land for the development and other purpose.</p> <p>Top soil is being stacked properly with proper slope at earmarked site near OB dump within lease hold area of Approved mine Plan.</p> <p>Refer Photograph No. 1</p>

vi)	<p>OB shall be stacked at earmarked external dump site within ML area of maximum height of 90m of 3 benches of 30m each. A garland drain of adequate capacity, and toe wall along the OB dump shall be created to arrest the silt flow from the dumps. In addition to the garland drain, a separate 4-6m channel to serve as storm water drain shall also be created all along the mine based on peak data. Silt arrestor shall be constructed for both garland drain and storm water drain and the drain shall be regularly de-silted.</p> <p>Toe wall shall be constructed at the base of the dump shall be strengthened at critical patches with stones and compacted. Plantation using native species shall be developed between the dumps and River Damodar. For reclamation of dumps and quarry with plantation, no chemical fertilizer shall be used. The ultimate slope of the dump shall not exceed 28°. Reclamation of the OB Dumps of an area of 168.47 Ha with vegetation shall be completed by 10th Year. Monitoring and management of the reclaimed dump site shall continue until the vegetation becomes self-sustaining compliance status shall be submitted to MoEF and its Regional Office located at Bhubneshwar on yearly basis.</p>	<p>As per approved Mining Plan and EIA/EMP submitted to MoEF& CC, OB was dumped at earmarked location within mining lease hold (ML) area.</p> <p>Presently, the mine is in development stage, the OB generated during small scale mining was used to fill up the old abandoned mine previously worked by M/S BCCL lying well within the earmarked OB dump area. As such it is submitted that presently from approved Mining Plan.</p> <p>It is also submitted that SAIL in advance has taken up plantation activity in coordination with the Forest Department, Dhanbad along the northern bank of river Damodar (area intervening between the future bottom edge of future OB dump and northern bank of river).</p> <p>300 new tree plantations have done at near river Damodar in the monsoon year 2024.</p> <p>Photographs are enclosed as Annexure- III</p> <p>SAIL has contributed ₹8 lakhs in y FY 23-24 to the District authority for tree plantation in Dhanbad District, as part of the community development initiative program “आपकी योजना - आपकी सरकार - आपके दावर”.</p>
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(vii)	<p>Catch drain and siltation pond of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mining area, road, greenbelt development etc. The drains shall be regularly de-silted and maintained properly.</p> <p>Garland drains (size, gradient and length) and sump capacity shall be designed keeping safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mining site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.</p>	<p>Previously,OBwas dumped to fill up old abandoned pit, previously worked by M/S BCCL as per approved Mining Plan. As such, there is no surface run off into the river Damodar.Catch drain has been constructed along the edge of OB dump facing the river and the surface runoff from the from the OB dump is channelized in the old abandoned quarry.Catch drain is terminating into siltation pond. Around some portion facing the river Damodar some low laying area has been created being used as siltation pond. As such, there is no surface run off into the river Damodar.</p> <p>Catch Drain has been constructed along the southern side of the OB dump and the surface runoff from the from the OB dump is channelized in the old abandoned quarry.</p> <p>The Garland drains has been regularly de-silted and maintained properly.Photograph-2 is attached</p> <p>The rain water so collected at mine pit. However regular monitoring of water analysistest is being carried out as per conditions stipulated in CTO conditions enclosed as Annexure- IV.</p>
(viii)	<p>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and situation shall be based on rainfall data.</p>	<p>Noted for compliance.</p> <p>Previouslythe OB was dumped to fill up at old abandoned pit previously worked by M/S BCCL as per approved Mining Plan. As such, there is no surface run off into the river Damodar.</p> <p>Catch drain has been constructed along the edge of OB dump facing the river and the surface runoff from the from the OB dump is channelized in the old abandoned quarry.</p> <p>Since OB dump is active, retaining wall shall be constructed once the height of OB is increased above ground level.</p> <p>However, MDO has been appointed and all compliance will be taken up.</p>
(ix)	<p>The approach road shall be blacked topped. A three tire avenue plantation shall be developed along the main approach roads and haul roads. Entire mine transportation shall be by rail mode only. Mineral transportation from the mine to the railway siding shall be by closed belt conveyor only.</p>	<p>The mine is in initial development stage, temporary approach road is being maintained. Approach roads and haul roads are being maintained by road grader and continuous water sprinkling is being done for dust suppression. Natural plants are there at all along of the temporary approach road. The Natural Plantation is attached as Annexure-V</p>

	The railway siding shall be provided with Silo rapid loading system.	<p>ROM Coal is transported from Tasra mine pit to CPP, Chasnalla by tarpaulin covered trucks. Entire coal is being transported by rail mode from railway siding of CCP to captive steel plant of SAIL.</p> <p>1. Land acquisition process has been initiated through District Administration. After acquisition of land, lay out of permanent haul road shall be done and subsequently three tier plantations shall be done along the haul road.</p> <p>1. 2. Proposal for installation and commissioning of washery and Coal Handling Plant has been identified at industrial land at FICL campus and In principal approval has been accorded by FCIL Board for setting up of Coal Washery. Leasing is under Process. Once Process of leasing is complete Commissioning of washery and construction of Railway siding with Silo Rapid shall be started by MDO.</p>
(x)	Drills shall be wet operated only.	Complied.
(xi)	Controlled blasting shall be practiced with the use of delay detonators. The mitigate measures for control of ground vibration and to arrest the fly rocks and boulders shall be implemented.	Complied.
(xii)	Water sprinkling system shall be provided to check fugitive emissions from crushing operation, conveyor system, haulage roads, transfer points etc. Hopper of the coal crushing units and Washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operation, transfer point at railway siding.	<p>Complied.</p> <p>Refer Photographs No. 3</p>
(xiii)	No ground water (bore well) shall be used for mining operations. Additional water if any required for the project shall be used from recycled water or from mine discharge water or rain water collected in rain water harvesting pits within the project area	Noted.

(xiv)	<p>Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new Piezometers. The monitoring of quantity shall be done four times a year in pre monsoon (May), Monsoon (August), post monsoon (November) and winter (January) seasons and for the quality in may Data thus collected shall be located to MoEF and to the Central Pollution Control Board quarterly within one month of Monitoring. Rain water structures shall be erected in the core and buffer zone in case monitoring indicates a decline in water table.</p>	<p>Piezometer has been installed for ground water monitoring. The ground water recharge Photograph are enclosed as Annexure -VI</p> <p>It is mentioned that Tasra Opencast Project was previously worked by M/s BCCL. There are numbers of old abandoned quarries within the project area, which are presently serving the purpose of rain harvesting cum-ground water recharge.</p> <p>Further, mining is being carried out on very small scale and mining is being carried out at shallow depth i.e. 55 m. As such no noticeable reduction in ground water level has been observed and all the wells and tube wells located in the adjacent area to the Tasra Coal Mining Project area are functioning properly. As such there is no depletion of ground water resources</p> <p>The Monitoring of quality of ground water, surface water (upstream& downstream of mine site) and mine water from core zone and buffer zone of Tasra mine have been regularly monitored. Copy of test reports enclosed as previousAnnexure-IV.</p> <p>However, 32rainwater harvesting cum ground water recharge system is being constructed atTasra/Chasnallacoalcomplex area at Chasnalla.</p> <p>Refer Photographs No. 04 as annexure-4</p>
(xv)	<p>The project authorities shall meet water requirement of near villages(s) in case the village wells go dry due to dewatering of mine.</p>	<p>Noted for compliance.</p>
(xvi)	<p>Sewage treatment plant of adequate capacity shall be installed in the colony. ETP shall also be provided for workshop and CHP wastewater. Treated wastewater meeting prescribed norms only shall be recycled for mining operations to the extent possible and permitted to be discharged to the natural water courses only if it meets the prescribed standards.</p>	<p>Noted for compliance.</p> <p>It may be noted that the mine is still in development stage and interim mining was carried out in very small scale i.e. production level is to the tune of 8% of the Peak Rated Capacity i.e. 4 MTPA of Tasra Mine.</p> <p>No residential colony has been constructed for Tasra Coal Mining Project and the construction of upcoming R&R colony is under the scope of work of MDO. However, MDO has been appointed and all compliance will be taken up.</p> <p>Action Plan:</p> <ol style="list-style-type: none"> 1. ETP for workshop shall be constructed upon expansion of the mine by MDO. 2. STP of adequate capacity shall be taken up once construction of R&R colony is taken up by MDO.

(xvii)	<p>Total area that shall be brought under afforestation at the time of mine closure shall not be less than 444.49 Ha. which includes reclaimed topsoil dump area& external OB dump (168.47 ha.), backfilled area (276.02 ha.) along MineLease boundary, embankment, undisturbed area, along roads and infrastructure, green belt and in township outside the lease by planning native species in consultation with the local DFO/ Agriculture Dept. The density of the tree shall be around 2500 plant/Ha.</p>	<p>Noted for compliance.</p> <p>Mine closure activity is elaborated in the approved Mining Plan and is envisaged to start from sixth year of Operation.</p> <p>OB generated during small scale mining was used to fill up the old abandoned mine previously worked by M/S BCCL lying well within the earmarked OB dump area.</p> <p>Plantation has been carried out in consultation with local DFO/Agriculture Departments per approved Mining Plan and EIA/EMP.</p> <p>It is also submitted that SAIL in advance has taken up plantation activity in coordination with the Forest Department, Dhanbad along the northern bank of river Damodar. (Area intervening between the future bottom edge of OB dump and northern bank of river).</p> <p>Presently native species has been plantated along the exiting OB dump of mine . Photographs are enclosed.Refer Photographs No. 03</p>
(xviii)	<p>A progressive Mine Closure Plan shall be implemented by reclamation of 276.02 ha, of the total quarry area of 371.33ha, which shall be backfilled and afforested by planting native plants species in consultation with the local DFO/ Agriculture Department. The density of the plants shall be around 2500 plants per ha. The balance 95.33 ha of de-coaled quarry area being converted into a waterreservoir shall be gently sloped and the upper benches of the reservoir shall be terraced and stabilized with plantation. Only native species shall be used for plantation.</p>	<p>Noted for compliance.</p> <p>Preparation of Mine Closure Plan has been kept under the scope of work of MDO. Mine closure activity is elaborated in the approved Mining Plan and is envisaged to start from sixth year of Operation.</p> <p>Pending preparation of Mine Closure Plan as required under statute, the amount on account of Mine Closure Activity is being deposited in Escrow account based on the tripartite agreement made between SAIL, Office of Coal Controller Kolkata, and IDBI Bank on 15.09.2017.</p> <p>As per agreement made on 15.09.2017 we have deposited Seven installments towards Mine Closure Cost.</p>

		<p>Details of amount deposited is as below :-</p> <table><tr><th>Year</th><th>Deposited in escrow A/C(In Rs)</th></tr><tr><td>2017-2018</td><td>263.67 Lakh</td></tr><tr><td>2018-2019</td><td>276.85 Lakh</td></tr><tr><td>2019-2020</td><td>290.70 Lakh</td></tr><tr><td>2020-2021</td><td>305.23 Lakh</td></tr><tr><td>2021-2022</td><td>320.49 Lakh</td></tr><tr><td>2022-2023</td><td>336.52 Lakh</td></tr><tr><td>2023-2024</td><td>353.34 Lakh</td></tr></table> <p>Action Plan: Progressive Mine Closure Plan shall be prepared and get approved from MoChas been taken up.</p>	Year	Deposited in escrow A/C(In Rs)	2017-2018	263.67 Lakh	2018-2019	276.85 Lakh	2019-2020	290.70 Lakh	2020-2021	305.23 Lakh	2021-2022	320.49 Lakh	2022-2023	336.52 Lakh	2023-2024	353.34 Lakh
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(xix)	Beside carrying out regular periodic health check-up of their workers, 10% of workers identified from workforce engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment if any, through an agency as NIOH, Ahmadabad within a period of 1 year and the results reported to this ministry and to DGMS.	<p>Qualified Occupational Health Doctor has been appointed as per DGMS Norm.</p> <p>No worker of Tasra OCP has been found to have occupational diseases or hearing impairment during a health check-up.</p> <p>Workers are provided with PPE device attached as Annexure- VII and time to time training on safety and health aspects were provided.</p> <p>Initial Medical Examination reports are enclosed as Annexure- VIII.</p>																
(xx)	An amount of Rs. 600.60/- lakhs as capital cost and Rs. 35/- lakhs towards annual recurring cost has been earmarked for environmental protection measures. The details of which shall be uploaded on the company web site every year.	<p>Noted for compliance.</p> <p>Mine is in development stage, a small scale mining was carried out.</p> <p>Capital Expenditure details for FY: 2023-24:-Rs. 1200000/- .</p> <p>Earmarked capital cost has been given in the scope of MDO.</p> <p>However, MDO has been appointed and all compliance will be taken up.</p>																
(xxi)	A detailed R&R plan for the life of the project comprising land losers, homestead losers, and landless including tribal to be displaced from the project area shall be prepared and implemented in stipulated time-frame. A master plan for the R&R colony and specific plan for Phase – I consisting of 1642 PAF's shall be prepared within two months from the date of environmental clearance along with time schedule for completion of activities including construction of	Acquisition of land & construction of R&R colony was under the scope of MDO and accordingly they had initiated the process of acquiring 16.60 Ha of private land at AsanbaniMouza. Pending construction of R&R colony, PAFs who were going to be displaced on account of acquisition of 6.14 Ha of land by SAIL, suggested for interim accommodation in the nearby quarters of M/s FCIL till they were finally rehabilitated at R&R colony. Villagers' request for interim accommodation was deliberated in the R&R Committee and it was ratified by R&R Committee in its meeting on 06.11.2017. Accordingly, SAIL took FCIL quarters on lease and 105 nos. of PAFs were																

	<p>R&R colony and completion of various works for civic amenities in the colony. R&R shall include setting of an ITI for training & skill development amongst the persons to be employed and those not being absorbed for vocational training for alternate livelihood, particularly stimulation training for various skills, which may be for indirect employment. Annuities for the Vulnerable persons being displaced shall also be included in R&R person affected by double/triple displacement shall be compensated as per norms. R&R for Phase- I shall be completed within a year of grant of environmental clearance.</p> <p>A sub-committee comprising of 3 Experts of Appraisal Committee shall monitor the compliance of implementation of Phase-I of R&R and beyond if required.</p>	<p>provided interim accommodation. Post termination of contract with M/s LITL, basic amenities like water, electricity, sanitation, etc. are being provided at the interim accommodation site by SAIL.</p> <p>A master plan for the R&R colony and specific plan for the phase –I consisting of 1642 PAF has been prepared and the same will be implemented in the due course after land acquisition. Process is initiated upon appointment of new MDO.</p> <p>Detailed survey was carried out by District Administration under the provision of LARR Act, 2013. Draft R&R Policy was framed by R&R Administrator appointed by State Govt for Tasra OCP. Public hearing on Draft R&R scheme was held by District Administration and R&R Scheme was approved by R&R Commissioner, Govt. of Jharkhand on 05.10.2016. Based on fresh preliminary notification for land acquisition, fresh R&R Scheme will be formulated by R&R Administrator for the Project and approved by Govt. of Jharkhand.</p> <p>R&R activities related to the project including establishment of R&R colony shall be taken up as per the approved R&R Plan by concerned Authority.</p> <p>Socio-economic survey of the seven mouzas was carried out by Project & Development India Limited (PDIL) in 2009. As per PDIL report, there were 3455 nos. of Project Affected Families (PAFs). Based on PDIL Report'2009, R&R scheme for PAFs for Rs.219.53 Crore was approved by SAIL Board in its meeting held on 17 .03.2010.</p> <p>MECON or any other consultant of repute shall be entrusted to prepare fresh DPR and Master plan for construction of R&R colony as per provisions of LARR' Act-2013 under appointment of MDO. However, MDO has been appointed& all compliance will be taken up.</p>
(xxii)	<p>Peripheral village of Parasbania, Chattabad, Orbeta, Kurtand, SindriBasti, Manohartand, Chasnallabasti, Manpur, Jharna, Bogla, and Chandankyari shall be taken for socio economic activity under CSR, for which a sum of Rs. 65/- Crores shall be earmarked for capital cost and Rs. 4/- Crore as revenue cost over the life of the project. The proponent shall continue VDC for monitoring the implementation of CSR. In addition</p>	<p>Capital Expenditure details for FY :</p> <ol style="list-style-type: none"> 1. 2023-24 : Rs. 392.5 Lakhs Approval for CSR of Collieries, Copy enclosed as Annexure- VIII 2. 2023-24: Rs 6219043/- for Environmental monitoring Copy enclosed as Annexure- VIII <p>As stated above mining operation is being carried out intermittently and on a very small scale.</p> <p>The constitution of VDC is under progress. Although CSR activities are being carried out in the project</p>

	the Sub-Committee of EAC shall also monitored if required.	affected area of Tasra Project. Details of CSRAactivities under CSR Scheme for (FY 2023-24) is enclosed as Annexure - IX
(xxiii)	The project authority shall carry out a detailed pre-mining socio-economic survey based on the UNDP Human Development Report and quality of life parameters and monitor the socio-economic status once every three years and maintain record thereof and report in their annual report, the socio-economic report of R&R and CSR activities. The details of which shall be uploaded on the company's web site every year. A post of GM to exclusively look after R&R & CSR shall be created.	Noted for compliance. PDIL i.e. Project Development India Limited, a Central Govt. PSU and by Abhiyan Samiti a Dhanbad based NGO in the year 2008 and 2009 respectively, i.e. prior to start of mining operation. Again Socio economic survey was carried out by M/s MECON in 2017. Again SIA study of mine project area has been completed. Copy of reports are enclosed as Annexure- X Further socio-economic survey will be carried out based on the UNDP Human Development Report and quality life parameters to monitor the socio-economic status.Record of CSR activities taken up is being maintained: An Officer in the rank of GM has been posted at Unit level and AGM has been posted at project level to look after the CSR activity. The CSR activities are being undertaken in consultation with the villagers of Project Affected Area.
(xxiv)	For monitoring land use pattern and post mining land use, a time series of land use maps based on satellite imagery (1:5000) of the core and buffer zone from the start of the project until end of the mine life shall be prepared once in three year from any one particular season which is consistent in the time series and the report submitted to MoEF and its regional office at Bhubneshwar.	Inyear 2018 Study has been done by M/sEdgeo resources Pvt. Copy of report is enclosed as Annexure-VII. 2. As on date there is no further significant change in land use map as mining activity is limited to 27 acres of land. However, MDO has been advised to for latest satellite imagery of the area.
(xxv)	A final mine closure plan along with details of Corpus Fund shall be submitted to the MoEF, 5 year in advance of the final mine closure for approval.	Noted for compliance.

General Conditions:-

Cond. No.	Conditions Imposed	Compliance Status as on March.' 2024
(i)	No change in technology and scope of work shall be made without prior approval of the Ministry of Environment and Forest	Noted for compliance .
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Noted for compliance. Quantum of mineral coal and waste dumping will be kept within the planned quantities as per approved mining plan.
(iii)	Four ambient quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RSPM, So2 and NOx. Locations of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr in SPM and RSPM etc., shall be carried out at least once in 6 months	Quarterly Sampling and analysis of PM10, PM2.5, SO2 and NOxetc have been carried out from stations established in the core zone as well as buffer zone of Tasra OCP by an NABL Accredited/ISO9001:2008 and OHSAS 18001:2007 certified lab M/s Adity R&D service (Recognized by Jharkhand State Pollution Control Board), Sindri, Dhanbad Copy of reports is enclosed as Annexure-XI
(iv)	Data on ambient air quality (SPM, RSPM, So2 and NOx and heavy metals such as Hg, As, Ni, Cr etc.) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the E (P) Rules, 1986 shall be furnished as part of compliance.	Noted for compliance . Monitoring of Environmental parameters is being carried out by an NABL Accredited/ISO9001:2008 and OHSAS 18001:2007 certified lab M/s Adity R&D service (Recognized by Jharkhand State Pollution Control Board), Sindri, Dhanbad
(v)	Adequate measures shall be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting operation, operation of HEMM etc. shall be provided with ear plugs/muffs.	Noted for compliance. The report is duly monitored by an NABL Accredited/ISO9001:2008 and OHSAS 18001:2007 certified lab M/s Adity R&D service (Recognized by Jharkhand State Pollution Control Board), Sindri, Dhanbad. Copy of Reports is enclosed as Annexure-XII

(vi)	Industrial waste water (workshop and waste water from the mine) shall be properly collected treated so as to confirm to the standards including for heavy metals, before discharge prescribed under GSR+22 (E) dated 19 May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Noted for compliance. However, Tasra Open Cast Project is planned for Peak rated Capacity of 4 MTPA and is proposed to be developed through Mine Developer Cum Operator (MDO).
(vii)	Vehicular emission shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	Complied.
(viii)	Monitoring of environment quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EP Rules, 1986.	Complied. The monitoring of environment quality parameters has been duly monitored by an NABL Accredited/ISO9001:2008 and OHSAS 18001:2007 certified lab M/s Adity R&D Service (Recognized by Jharkhand State Pollution Control Board) Sindri, Dhanbad. Copy of reports enclosed as previous Annexure- IV, X & XI
(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational Health Surveillance Programme of the worker shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if required.	Complied. On resumption of Mining Operation Persons working in dusty areas shall be provided protective respiratory devices and also provided with adequate training and information on safety and health aspects. Occupational Health Surveillance Programme of the worker shall be undertaken periodically to observe any contractions due to exposure of dust and to take corrective measures, if required.
(x)	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.	Separate Environmental Management Department has been set up and headed by GM (Environment) who reports directly to the Head of the Mine and also DGM (Environment) appointed at TasraProjectLevel. In addition to this, SAIL is having a separate Corporate Environment Management Division (EMD) at Kolkata under the control of Executive Director, who facilitates in environmental management of all SAIL units.
(xi)	The fund earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year-wise	Noted for compliance.

	expenditure should be reported to the Ministry and its regional office located at Bhubneshwar.	
(xii)	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned, within 7 day of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forest at http://www.envfor.nic.in	Complied. Advertisement was issued in two local newspaper widely circulated around the project.
(xiii)	A copy of the clearance letter shall be marked to concerned Panchyat/ZilaParishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom suggestion/representation has been received while processing the proposal. A copy of the clearance letter also to be displayed on the company's website.	Compliance has been done as per the EC condition. A copy of clearance letter has also been displayed on the company's web site.
(xiv)	A copy of clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector Office/Tehsildar Office for 30 days.	Compliance has been done as per the EC condition.
(xv)	The Clearance letter shall be uploaded on the Company's website. The compliance status of stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as SPM, RPM, SO ₂ , NO _x (ambient and stack if any) and critical sectorial parameters shall be displayed at the entrance of the project premises and mine office and in corporate office and on the company's website.	Complied. The Environmental Clearance has been uploaded on the company's website. The compliance status of stipulated EC conditions shall also be uploaded on the company's website and updated at least once in every six months after submission of the report to the concerned Authorities. The environmental monitoring data shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website. Monitoring date display at entrance of mine as enclosed Annexure--XIII
(xvi)	The project proponent shall submit six monthly reports on the status compliance of the environmental clearance conditions (both in hard copy and e-mail) to the respective Regional Office of the MoEF, the respective Zonal Office of CPCB and	Being complied.

	the SPCB.	
(xvii)	The Regional Officials of the Ministry located at Bhubneshwar shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information monitoring report.	Being complied.
(xviii)	The environmental statement for each financial year ending 31 st September Form V is mandate to be submitted by the Project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Act, 1986 as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail.	Noted for compliance. On resumption of Mining Operation at Tasra OCP the Environmental Statement for each financial year shall be submitted to the concerned State Pollution Control Board and shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail. The Latest Environment Statement report is submitted in 16.09.2024. The report is enclose as Annexure-XIV

Note: This for your kind information that presently small scale mining operation at Tasra OCP.

It may be further submitted that Tasra Open Cast Project is an ambitious project of SAIL having annual peak rated capacity of 4MTPA. SAIL intends to develop this project through Mine Developer route and in this respect MDO has been appointed by SAIL for development and operation of Tasra Open Cast Project and CMSA (Coal Mine Service Agreement) has been executed between MDO and SAIL on 08.09.2023.

As per Scope of works MDO shall take necessary steps for compliance of all EC conditions on behalf of SAIL. Presently MDO is in the process of acquiring of land on behalf of M/s SAIL & setting up of necessary infrastructure for development and operation of the mine.



File No.: J-11015/122/2007-IA.II(M)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 14/11/2024



To,

Sh. Tarun Kanti Roy
M/s STEEL AUTHORITY OF INDIA LTD
ISPAT BHAWAN, LODI ROAD, DELHI, NEW DELHI, DELHI, 110003
E-mail: parivesh_sail@sail.in

Subject: Tasra Coking Coal Washery (Area 21 Ha having capacity of 3.5 MTPA) by M/s Steel Authority of India Ltd. located at Village: Rohraband; District: Dhanbad; State: Jharkhand – Grant of Environmental Clearance-Regarding

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/JH/CMIN/495669/2024 dated 26/09/2024 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A0801JH5355205N
(ii) File No.	J-11015/122/2007-IA.II(M)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	2(a) Coal washeries
(vi) Sector	Coal Mining
(vii) Name of Project	Tasra Coking Coal Washery Plant of M/s. Steel Authority of India Limited with 3.5 MTPA capacity of 21 Ha area, located at FCIL Campus, Town – Sindri, District-Dhanbad, Jharkhand.
(ix) Location of Project (District, State)	DHANBAD, JHARKHAND
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	No

3. M/s Steel Authority of India has made an online application vide proposal no. IA/JH/CMIN/495669/2024 dated 26.09.2024 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking environmental clearance under the provisions of EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at item No. **2(a) – Coal Washeries under Category ‘A’** of the schedule of the EIA Notification, 2006 and appraised at Central Level.

5. The instant Proposal was considered by the EAC (Coal) in its 16th meeting held during 8 – 9th October, 2024. The PP has uploaded the written information on 23.10.2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

Details submitted by the project proponent

6. The proposal is for Environment Clearance of Tasra Coking Coal Washery (Area 21 Ha having capacity of 3.5 MTPA) by M/s Steel Authority of India Ltd. located at Village: Rohraband; District: Dhanbad; State: Jharkhand.

7. The details of the ToR are furnished as below:

Proposal No/ Date of application	Consideration by the EAC	Date of accord	ToR validity
IA/JH/CMIN/455615/2023 15/12/2023	8 th EAC meeting held on 28-29th February 2024	12.04.2024	11.04.2028

8. **Environmental site settings:** The washery is covered under Survey of India Topo Sheet No. 73 I/6 (F45C6) and is bounded by the geographical coordinates ranging from Latitude 23°39'37. 22"N to 86°28'59.45"N and Longitude 23°39'51.23"E to 86°29'15.52"E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. This aspect has also been verified and confirmed through DSS.

Forest Area: PP submitted that the project does not involve any forest land. This aspect has also been verified and confirmed through DSS.

Protected Area: PP submitted that The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. However, there is one small unnamed protected forest, that exists at a distance of 9.5 km from the project site.

Schedule – I species: PP submitted that Schedule – I species were observed in the study area and accordingly, a Wildlife Conservation Plan has been prepared and submitted to the DFO, Dhanbad for approval on dated 30.08.2024, subsequently some observation was raised and revised WLCP was submitted on 21.09.2024.

Project Area: PP submitted that the proposed coal washery including railway siding will be situated over an area of 21 Ha of land. The land is industrial land and the same is owned by The Fertilizer Corporation of India Limited (FCIL). In Principle Approval for utilizing the 21 ha has been accorded by the FCIL Board vide letter dated 20.11.2023.

9. Salient features of the project:

i. SAIL has intended to set up a Coal Washery of the annual capacity of 3.5 MTPA near to Tasra Open cast Coal Mine for supply of clean coal and middling to their Steel Plants and Captive Thermal Power plants, respectively.

ii. The raw coal requirement (35,00,000 TPA) for the proposed washery will be met from Tasra Coal Mine of Steel Authority of India Ltd. (SAIL) located at a distance of 2km through Cross Country Conveyor.

iii. The proposed coal washery is (having capacity of 3.5 MTPA) is a new project. Washery including railway siding will be situated over an area of 21 Ha. The land is industrial land and the same is owned by The Fertilizer Corporation of India Limited (FCIL).

iv. The washery has been planned to produce two products i.e. clean coal and middling. The washing process for the washery has been selected on the basis of qualitative requirement of clean coal for utilizing in steel plant i.e. 17% ash. The middling will be utilized in Captive Power Plants of SAIL.

v. Transportation of Clean Coal (Coking Coal & Middling) by Rail. Railway siding with take-off point from the Dhanbad-Sindri line of Eastern Central Railway (ECR) proposed.

- vi. Type of Coal Washery: It is a Wet Process (based on Heavy Media Cyclones and Froth Flotation) coal washery.
- vii. No reject will be generated from the washery. It is a two-product washery, prime product being clean coking coal and the secondary product being middlings which will also be used in SAIL Power Plants.
- viii. Transportation: Transportation of raw coal will take place by conveyor and transportation of washed coal (clean and middlings) will take place by rail.

ix. Details of land use:

S. No.	Details	Area in Ha	% w.r.t. Total Area
1.	Main Plant Area	2.52	11.99
2.	Storage Area for Coal Stock	6.23	29.68
3.	Water Reservoir	0.62	2.94
4.	Green Belt	6.93	33.00
5.	Internal Roads	2.12	10.09
6.	Parking Area	1.48	7.05
7.	Misc Area	1.11	5.26
	Total	21.00	100.00

- x. To operate and maintain the washery plant a total manpower of 166 is required to be directly employed.
- xi. The project site is at a distance of 0.2 km from the Sindri Town Railway Station, 76 km from Kazi Nazrul Islam Airport – Durgpur and 28 km from town Dhanbad.

10. Legal issues/ Violation: PP submitted that there is no legal issue/violation wr.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

11. Water Requirement: PP submitted that the water requirement will be 966 m³/day and the source of water will be Mine Pit water from the Tasra Coal Mine and there is no ground water intersection involved for the instant project. Application for NOC has been submitted to CGWA vide application no. 21-4/2006/JH/MIN/2024 dated 24.08.2024. PP also submitted that the process of the proposed washery is based on closed water circuit system. Hence, there will be zero liquid discharge. Further, there is no diversion of river/ nallah proposed.

12. Power Requirement: PP submitted that the total power requirement for the project will be 7.5 MVA, which will be sourced from a nearby substation of Jharkhand Bijli Vitran Nigam Limited (JBVNL) through overhead transmission line. Further, PP submitted that there is no diversion of Hi-Tension/ Transmission Line for the proposed washery.

13. Baseline Data: Environmental Baseline data has been collected during October to December 2023 (Post Monsoon):

Period	October to December 2023 (Post Monsoon)
AAQ parameters for 10 Locations (min and max)	PM ₁₀ – 64.27 to 77.18 µg/m ³ PM _{2.5} – 40.95 to 52.28 µg/m ³ SO ₂ – 10.68 to 17.80 µg/m ³ NO _x – 11.50 to 30.95 µg/m ³ CO – 0.42 to 0.94 mg/m ³
Increment I GLC Level	PM ₁₀ – 2.05781 µg/m ³ (Level at 0 km in N Direction) PM _{2.5} – 1.32288 µg/m ³ (Level at 0 km in N Direction) SO ₂ – 0.16169 µg/m ³ (Level at 0 km in N Direction) NO _x – 0.17932 µg/m ³ (Level at 0 km in N Direction) CO – 0.0000011 mg/m ³ (Level at 0 km in N Direction)
Groundwater Quality for 10	pH – 7.11 to 7.96 Total Hardness – 189.5 to 265.0 mg/l

Period	October to December 2023 (Post Monsoon)
Locations	Chlorides– 43.47 to 54.28 mg/l Fluoride– 0.23 to 0.33 mg/l
Surface water Quality for 10 Locations	pH– 7.41 to 7.88 DO– 5.3 to 6.3 mg/l BOD – 17.0 to 27.0 mg/l COD – 56.0 to 82.0 mg/l
Noise levels Leq (Day and Night)	42.35 to 63.48 dB for the daytime and 34.62 to 52.75 dB for the Night time.
Traffic Assessment study findings	No transport of raw coal or clean coal is envisaged by road. Raw coal from the Tasra mine shall be transported through the cross-country Conveyor. Clean coal from the Washery shall also be transported by rail to the end users at SAIL Steel Plants and Power Plant. Hence, there will be no impact on the existing road network due to the project. No transport of raw coal or clean coal is envisaged by road. Raw coal from the Tasra mine shall be transported through the cross-country Conveyor. Clean coal from the Washery shall also be transported by rail to the end users at SAIL Steel Plants and Power Plant. Hence, there will be no impact on the existing road network due to the project.
Flora and fauna	Following schedule I species were observed in the study area: Mammals Bengal Fox (<i>Vulpes bengalensis</i>), Golden Jackal (<i>Canis aureus</i>) Jungle Cat (<i>Felis chaus</i>) Indian Grey Mongoose (<i>Urva edwardsii</i>), Small Indian Civet (<i>Viverricula indica</i>) Birds Brahminy Kite (<i>Haliastur indus</i>), Eurasian Marsh Harrier (<i>Circus aeruginosus</i>), Red Headed Vulture (<i>Sarcogyps calvus</i>), Shikra (<i>Accipiter badius</i>), Indian Peafowl (<i>Pavo cristatus</i>) Reptiles Indian Chameleon (<i>Chameleon zeylanicus</i>), Indian Rat Snake (<i>Ptyas mucosa</i>) Indian Cobra (<i>Naja naja</i>), Indian Python (<i>Python molurus</i>), Indian Flapshell Turtle (<i>Lissemys punctate</i>), Bengal Monitor (<i>Varanus bengalensis</i>) Russells's Viper (<i>Daboia russelii</i>) Wildlife conservation Plan has been prepared and submitted to the DFO, Dhanbad for approval on dated 30.08.2024, subsequently some observation were raised and revised WLCP was submitted on 21.09.2024. Budget of Rs. 1624.23 Lakhs has been allocated by M/s SAIL for the protection and conservation of the Schedule-I Species
Water Requirement	Source of Water: Mine pit water from Tasra Coal Mine through pipe lines. Ground Water Intersection: No Water Requirement: 966m ³ /day NOC (Ground Water): CGWA NOC application has been submitted vide application no. 21-4/2006/JH/MIN/2024 dated 24.08.2024

14. **Solid and Hazardous Waste:** PP submitted the details of Solid and Hazardous waste generation along with its mode of treatment/ disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1.	Domestic Waste	Persons Employed for washery operations	13.2	Re-cycling	Human wastes through STP & food waste will be composted.	Solid Waste
2.	Used oil	Machinery	0.5	Authorized Vendors	To be sold to authorized Recycle	Hazardous waste
3.	Battery Waste	Vehicles at sites	0.4	Re-cycling	Sold to authorized Vendors/ Recycler	Battery Waste

15. **EMP Cost:** PP submitted that the capital cost for environmental protection measures is proposed as Rs 36.1965

Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 1.0571 Crores. The details of cost for environmental protection measures are as follows:

S. No.	Environmental Protection Measures	Capital Cost Rs. In Lakhs	Recurring Cost Rs. In Lakhs/Year
1.	Air Pollution Control Measures		
	Bag Filter	110.0	1.5
	Dry Fog Dust Suppression systems at Conveyor Transfer Points	30.0	2.5
	Fixed Water Sprinklers	25.0	2.5
	Mobile Water Sprinklers	15.0	1.5
	Fog /Mist Canon	40.0	3.0
	Provision of Wind Barriers	15.0	1.0
	Mechanical Sweeping M/c	65.0	5.0
	Sub Total (A)	300.0	17.0
2.	Water Pollution Control Measures		
	Rain Water Harvesting	100.0	10.0
	Coagulants for Thickeners	--	30.0
	STP 10 KLD	40.0	4.0
	Sub Total (B)	140.0	44.0
3.	Noise Pollution Control Measures		
	Acoustic Paneling for DG House	30.0	1.50
	Rubber Liners for Chutes, Classifier etc.	30.0	3.0
	Sub Total (C)	60.0	4.50
4.	Storage and Solid Waste Management		
	RCC flooring for Stock Piles of Clean Coal and Middling to avoid leaching	50.0	2.5
	Concrete platform with bund wall and oil collection system for storage of HSD, and Used Oil	5.0	1.5
	Sub Total (D)	55.0	4.0
5.	Environment Monitoring Program		
	Installation of 1 no. of CAAQMS, and 1 no. of Web Camera at Plant Outlet	60.5	5.05
	Post Project Monitoring - Cost of monitoring of environmental parameters for Ambient Air, Fugitive Emission, Stack emissions, Effluent, Ground water quality, Ambient & Work Zone Noise Levels monitoring, Efficiency Monitoring of Pollution Control equipment	--	3.66
	Periodical Medical Examination of Workers	--	1.5
	Sub Total (E)	60.5	10.21
6.	Occupational Health & Safety	19.5	24.0
7.	Greenbelt Development	83.16	8.0
8.	Ecology & Bio-diversity (Wildlife Conservation Plan)	1624.23	
9.	Budget for Public Hearing Commitments	1672	
	Total EMP Budget	4014.39	111.71

16. **Public Hearing Details:** PP submitted that Public Hearing notice was given in The Times of India (English Newspaper) and Hindustan (Hindi Newspaper) of 23.06.2024. The Public Consultation was conducted on 24.07.2024 at Arya Samaj Premises, near BIT Sindri, district Dhanbad, Jharkhand under the chairmanship of Additional Collector Dhanbad, Sh. Vinod Kumar. PP submitted that total 179 nos of person attended the public hearing and total 15 nos of representations were received in writing from and outside the district. The major issues raised during the public hearing were employment, healthcare and ambulance, waste from washery, plantation of trees, drainage & sewage system, garbage disposal, school / education in sail school, electricity, supply of water, road / cctv on roads / street lights, development of stadium and toilets and solar panel.

Action Plan for the issues raised during the PH is attached as Annexure-2

17. **Plantation:** PP submitted that the proposed greenbelt will be developed in 6.93 Ha which is about 33 % of the total project area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around boundary of washery and vacant places will be developed as greenbelt and green cover as per CPCB/MoEF&CC norms. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 20,105 saplings in 6.93ha area will be planted and nurtured in hectares in 5 years. In addition to this plantation shall be carried out in (details of plantation of dumps etc. may be incorporated):

Sl. No.	Year	Area to be Covered (Ha)	No. of trees to be planted	Additional plantation considering Survival Rate of 80%	Total Saplings to be Planted	Expected Cost of Plantation in Rs. (Considering @ Rs. 400 per trees)
1.	1 st	1.386	3,465	--	3,465	1,386,000
2.	2 nd	1.386	3,465	695	4,160	16,64,000
3.	3 rd	1.386	3,465	695	4,160	16,64,000
4.	4 th	1.386	3,465	695	4,160	16,64,000
5.	5 th	1.386	3,465	695	4,610	16,64,000
Total		6.93	17,325	2,780	20,105	80,42,000

18. **Project Cost:** PP submitted that the total capital cost of the project is 93,900 Lakhs. The CSR Cost submitted by the PP is 2% of the net profit of the three preceding years. The estimated capital expenditure for implementation of EMP during the operation will be 4014.39 Lakhs and recurring cost will be 111.71 Lakhs per year.

19. **Affidavit and Undertaking:** PP has submitted an undertaking stating that the contents in the form of information and data of EIA Report has been prepared by the authorised consultant and is factually correct and not copied from any other EIA Reports.

Further, the PP has also submitted an affidavit stating that there is no construction done at the site of proposed project, there is no litigation on the project either at Hon'ble NGT or any other court of law, FCIL board has accorded "in principal approval" to the proposal for leasing of 21 Ha of FCIL land to M/s Steel Authority of India Limited, for setting up of Tasra Coking Coal Washery for Tasra Open Cast Project, subject to EC from MoEF&CC, there is no difference in the documents submitted i.e., CAF, Form (Part A,B&C), Layout Plan and EIA/ EMP and presentation being made to the EAC & further stated that the project activity is listed as 2(a) in EIA Notification, 2006 and categorized as 'A' as the production capacity is more than 2.5 MTPA. Therefore, the project is being submitted at MoEF&CC. The company further undertook that the contents of this declaration are true and correct and nothing has been concealed.

20. Written submissions by the proponent:

S. No.	Points	Written submissions made
1.	Relocation of School	Lions Public School is located in close vicinity of the proposed washery site (0.08 km from the site). SAIL has already requested FCIL for land availability for relocation of the school in its letter no. GM IC (T&C)/FCIL/2024/55 dated 12.07.2024. Additionally attached is an undertaking from SAIL that it would provide suitable alternative land for the relocation of the school, in case FCIL fails to do so. An undertaking in this regard has been submitted.
2.	Use of E-Vehicles	The washery operation will not involve use of diesel, other than DG sets, which will be used in case of emergency, no diesel operated HMTVs will be used. SAIL agrees to use E-Vehicles within washery premises.
3.	Revision of EMP and Public Hearing Budget	The budget for addressing the issues of the Public hearing has been re-worked and upgraded from Rs. 13.40 Crores to Rs. 16.72 Crores. Also, the budget for EMP has been re-worked and upgraded from Rs. 36.19 crores to Rs. 40.14 crores (including PH budget). Special focus has been kept on the issues related to improvement of healthcare facilities, avenue plantation, rainwater harvesting, skill development etc. Updated EMP and public hearing budgets have

S. No.	Points	Written submissions made
		been submitted.
4.	Details of CSR activities carried out by SAIL in Tasra Project area and outside area of Project Dhanbad	SAIL has undertaken numerous initiatives to enhance societal well – being. A wide range of activities in the fields of health, water, sanitation, education, sports, livelihood, such as skill development for youth and women, provision for healthcare facilities, plantation drives, etc. are currently being implemented. A detailed list of activities performed and proposed under CSR has been submitted. Further, as regard to medical on wheels SAIL would continue this facility additionally a medical health dispensary would be operated which would be manned by suitable medical staff.
5.	Authorization letter for GM, Tasra	Authorization letter from Executive Director of SAIL for GM I/c (Tasra) has been submitted.

Observations and deliberations of the EAC:

21. The Committee noted the following:

i. The instant proposal is for greenfield project for grant of Environmental Clearance (EC) for installation of Coking Coal Washery Plant (wet process) based on Heavy Media Cyclone of 3.5 MTPA in an area of 21 Ha and for setting up of new railway siding with take-off point from Dhanbad Sindri line of Eastern Central Railway, close to the boundary of the proposed plant by M/s Steel Authority of India located in Village: Rohraband; District: Dhanbad; State: Jharkhand.

ii. The Committee observed that the EC for Tasra Open Cast Coal Mine having capacity of 4 MTPA by M/s SAIL was accorded EC by MoEF&CC on 13.10.2009 vide letter no. J-11015/122/2007-I.A.II(M). The Tasra Open Cast Coal Mine is approximately at a distance of 2 km from the proposed washery.

iii. The EAC took into consideration the project site through the KML file on the Google Earth presented by the project Proponent along with the DSS of the project site on PARIVESH. The project area is covered under Survey of India Toposheet No. 73 I/6 (F45C6) and is bounded by the geographical coordinates ranging from Latitude 23°39'37. 22"N to 86°28'59.45"N and Longitude 23°39'51.23"E to 86°29'15.52"E. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018.

iv. The total project area is 21 Ha and it is proposed to be installed in FCIL land for which FCIL has given the "in principle approval" vide letter dated 20.11.2023. Further, the project does not involve any forest land and the project is not located within 10 km of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. However, there is presence of Schedule – I species, for which the PP has submitted the WLCP to the DFO, Dhanbad for approval on dated 30.08.2024, subsequently some observation was raised and revised WLCP was submitted on 21.09.2024. However, it is observed that the same is yet to be approved by the DFO.

v. ToR was granted for the instant proposal on 12.04.2024, vide letter no. J-11015/122/2007-IA.II(M).

vi. The Committee also deliberated on the Public Hearing conducted on 24.07.2024. under the chairmanship Shri Vinod Kumar, Additional Collector, Dhanbad. The advertisement of the same was published in The Times of India and Hindustan newspapers on 23.06.2024 and PH was attended by 179 people and written representations were received from and outside the district by 15 people. Major issues raised during the PH were Employment, Healthcare and Ambulance, Waste from Washery, Plantation of Trees, Drainage & Sewage System, Garbage Disposal, School/ Education in SAIL School, Electricity, Supply of Water, Road/ CCTV on Roads/ Street Lights, Development of Stadium and Toilets and Solar Panel. The Committee deliberated on the action plan of the PH budget and found the budget allocated for PH activities needs to be revised. The Committee is of the opinion that the special emphasis should be made on improvement of healthcare facilities, avenue plantation, rainwater harvesting, skill development, etc. The PP further revised the budget for PH from Rs. 13.40 Crores to Rs. 16.72 Crores, focusing on the activities highlighted by the Committee. The revised PH budget submitted by the PP is as follow and found to be satisfactory.

S. No.	Proposed Activities under Public Hearing Commitment Scheme	Amount (Lakhs.)
1.	Infrastructure development including installation of Solar Street Light, Construction/Repair of Pucca Roads, Waiting Halls in Buffer Zone as per the location and Park Seating Benches	269.70
2.	Safety & Security including installation of CCTV and necessary fixtures with provision of connection to Sindri Police Station and Repair to Patrol Van of Sindri Police Station	205.00
3.	Rejuvenation of Seven Lakes, Sindri, District-Dhanbad	90.00
4.	Renovation of Eleven Star Club, Youth Club and Kalyan Kendra Stadium by improvement of Gym, Running Tracks, swimming pool and other sports facilities	164.50
5.	Plantation in Buffer Zone at Schools, Market Place, Government Offices, Banks, Rest Shelters etc.	200.00
6.	Setting up of health care facility, Conducting Medical Camp, Strengthening Existing Dispensary and linking with Hospital, Providing Medical Equipment to Primary Health Center and Community Health Centre	461.50
7.	Environmental Remediation by carrying out cleaning work of weeds and waste	30.00
8.	Implementing Solid Waste Management by providing Garbage bins of 1000 litre at designated places	30.00
9.	Implementing Water Conservation & Drinking Water Infrastructure by constructing Rainwater Harvesting Pit and Installing Handpumps	21.50
10.	Improving Water & Sanitation facilities by installing manhole at L type colony, Construction of Cement Line Drainage and Repair and augmentation of existing Drainage.	118.80
11.	Education & Livelihood Generation by installing Solar Panel at Aurbindo Society and Providing Skill Development Training to Youth and Training to Woman for Entrepreneurship	81.00
	TOTAL	1672.00

vii. The Committee observed that there is a school located in close vicinity of the proposed washery site and same is proposed to be relocated. The PP had submitted the letter from the Principal of the school, regarding their consent to relocate the school from present location to a new location within 800-1200m away from the present location. The Committee deliberated on the new site proposed for the same and observed that the PP had finalized 3 alternate sites for relocation of school and the school authorities have also agreed for the same. However, the new site is yet to be finalized and PP has requested FCIL for land availability for the school. PP has also submitted an undertaking that if FCIL is unable to provide the land then SAIL would provide suitable alternative land for the school's relocation. PP has also submitted that all the necessary infrastructure at new location will be provided by SAIL and no financial expenditure will be borne by the school w.r.t infrastructure development.

viii. The Committee deliberated on the diesel consumption proposed by the PP and is of the opinion that diesel consumption should be minimized. The Committee suggested that the no diesel operated HMTVs should be used and the complete use of e-vehicles should be proposed within the washery premises. The PP agreed to the same and submitted that diesel consumption will be restricted to just DG sets, that too at the times of emergency. Other than that, PP agreed to use E-vehicles within the washery premises.

ix. The Committee deliberated on the Environment Management Protection Plan developed by the PP for the instant proposal. It observed that budget allocated for the water pollution control measures did not suffice and suggested PP to rework on the same. PP submitted the revised budget for EMP, increasing the same from Rs. 36.19 Crores to Rs. 40.14 Crores. The revised EMP submitted by the PP is as follows:

S. No.	Environmental Protection Measures	Capital Cost Rs. In Lakhs	Recurring Cost Rs. In Lakhs/Year
1.	Air Pollution Control Measures		
	Bag Filter	110.0	1.5
	Dry Fog Dust Suppression systems at Conveyor Transfer Points	30.0	2.5
	Fixed Water Sprinklers	25.0	2.5

S. No.	Environmental Protection Measures	Capital Cost Rs. In Lakhs	Recurring Cost Rs. In Lakhs/Year
	Mobile Water Sprinklers	15.0	1.5
	Fog /Mist Canon	40.0	3.0
	Provision of Wind Barriers	15.0	1.0
	Mechanical Sweeping M/c	65.0	5.0
	Sub Total (A)	300.0	17.0
2.	Water Pollution Control Measures		
	Rain Water Harvesting	100.0	10.0
	Coagulants for Thickeners	--	30.0
	STP 10 KLD	40.0	4.0
	Sub Total (B)	140.0	44.0
3.	Noise Pollution Control Measures		
	Acoustic Paneling for DG House	30.0	1.50
	Rubber Liners for Chutes, Classifier etc.	30.0	3.0
	Sub Total (C)	60.0	4.50
4.	Storage and Solid Waste Management		
	RCC flooring for Stock Piles of Clean Coal and Middling to avoid leaching	50.0	2.5
	Concrete platform with bund wall and oil collection system for storage of HSD, and Used Oil	5.0	1.5
	Sub Total (D)	55.0	4.0
5.	Environment Monitoring Program		
	Installation of 1 no. of CAAQMS, and 1 no. of Web Camera at Plant Outlet	60.5	5.05
	Post Project Monitoring - Cost of monitoring of environmental parameters for Ambient Air, Fugitive Emission, Stack emissions, Effluent, Ground water quality, Ambient & Work Zone Noise Levels monitoring, Efficiency Monitoring of Pollution Control equipment	--	3.66
	Periodical Medical Examination of Workers	--	1.5
	Sub Total (E)	60.5	10.21
6.	Occupational Health & Safety	19.5	24.0
7.	Greenbelt Development	83.16	8.0
8.	Ecology & Bio-diversity (Wildlife Conservation Plan)	1624.23	
9.	Budget for Public Hearing Commitments	1672	
	Total EMP Budget	4014.39	111.71

x. The Committee further deliberated on the CSR activities, proposed to be carried out by SAIL in Tasra Project Area and outside area of the project. Committee observed that SAIL has undertaken various initiatives to enhance societal well-being. Various activities in the field of health, water, sanitation, education, sports, livelihood, such as skill development for youth and women, provision of healthcare facilities, plantation drives, etc. are currently being implemented by the PP. PP also submitted the detailed list of activities already performed and further proposed under CSR.

xi. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xii. The EAC deliberated on the written submission of the project proponent and found it satisfactory.

Recommendations of the Committee

22. Based on the discussions held and the documents submitted, the EAC **recommended** the proposal for Environment

Clearance of Tasra Coking Coal Washery (Area 21 Ha having capacity of 3.5 MTPA) by **M/s Steel Authority of India Limited** located at Village: Rohraband; District: Dhanbad; State: Jharkhand under EIA Notification, 2006 (as amended) subject to the compliance of the following specific conditions in addition to the general/Standard EC conditions (**Annexure 1**).

23. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to M/s. Steel Authority of India Limited for Tasra Coking Coal Washery (Area 21 Ha having capacity of 3.5 MTPA) located at Village: Rohraband; District: Dhanbad; State: Jharkhand subject to compliance of Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure 1**).

24. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

25. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

26. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

27. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

28. General Instructions:

(i) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

(ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

(iii) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

(iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

(vi) The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(vii) Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.

29. This issue with an approval of the Competent Authority.

Yours faithfully,

(Sundar Ramanathan)
Scientist 'E'/Additonal Director
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand – 834 002.
4. The Chairman, Jharkhand State Pollution Control Board, TA building, HEC complex, PO Dhurwa, Ranchi.
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
6. The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. The Regional Director, Central Ground Water Board, Mid-Eastern Region, 6th& 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road, Dak Banglow, Patna- 800011, Bihar.
8. The District Collector, Dhanbad, Government of Jharkhand.
9. PARIVESH Portal.

Annexure 1

Specific EC Conditions for (Coal Washeries)

1. A. Specific Conditions

S. No	EC Conditions
1.1	Project proponent has to obtain the consent to operate (CTO) for 3.5 MTPA Coal Washery after grant of Environmental clearance.
1.2	Approval of Wildlife Management Plan by the concerned DFO shall be submitted to the Ministry's regional office within next 3 months of the grant of EC.
1.3	Water requirement for the project is 966 m3/day and the same shall be met from Mine Pit water from the Tasra Coal Mine. No ground/surface water extraction is permitted for the project.
1.4	Rain water harvesting/storage pond of 60,000 KL capacity shall be developed and the collected water will be used for industrial activities to minimize the Ground water consumption.
1.5	Solar power system shall be established and 10% of the total power requirement shall be utilize through Solar Power system.
1.6	Transportation of Raw Coal shall take place by cross country belt conveyor and transportation of

S. No	EC Conditions
	washed coal and middlings shall take place by rail. Road transportation of raw coal, washed coal and middlings is not permitted. Regular water spraying shall be done on transportation route through Water tankers. A log of the water tanker needs to be maintained. The water tanker should be fitted with a GPS Tracker and a record of trips with GPS track needs to be maintained.
1.7	Water spraying shall be done on regular basis inside and around the project area (within 2 km of the plant site) on a regular interval and a log book should be maintained for the same. The fog cannon must be installed at periphery of the Coal washery in order to suppress the dust.
1.8	All the roads proposed to be constructed inside and around the periphery of the plant shall be concrete road only. Road transportation of raw coal, washed coal and middlings is not permitted.
1.9	A 7.5 m wide greenbelt, consisting of at least 3 tiers around boundary of washery and vacant places will be developed as greenbelt and green cover as per CPCB/MoEF&CC norms. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 20,105 saplings in 6.93ha area will be planted and nurtured in hectares in 5 years. A detailed action plan with budgetary provision should be submitted within 6 months to concerned RO of the Ministry.
1.10	The Plant will operate on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of project area.
1.11	Project proponent shall implement the protective measures as proposed in environment management plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 4014.39 Lakhs (Capital) and Rs 111.71 Lakhs (recurring)/ annum and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office of the Ministry for the activities carried out during the previous year.
1.12	Project proponent shall install a continuous ambient air quality monitoring station (AQMS) at suitable locations preferably the village side with the consultation of SPCB before commissioning of Plant operation. The real time data so generated shall be uploaded on company's website and it will be linked with CPCB & SPCB web portal. In addition, data should also be displayed digitally at entry and exit gate of Plant for public display.
1.13	The workers shall be provided all the essential facilities/Personal Protective Equipments (PPE) during operation and maintenance at workplace.
1.14	Project proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly. Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly.
1.15	Project proponent shall use of Gas engine/ Cleaner fuel engine for use of machines or as power back up to reduce the pollution load on environment. Project proponent shall implement additional measures to control Air pollution.

S. No	EC Conditions
1.16	Project proponent shall implement the activities proposed to address the issues raised during the public hearing in a time bound manner as committed in EIA/EMP report. The budget earmarked for the same is Rs. 1672 Lakhs (Capital) that should be kept in a separate accounts and audited annually. The implementation status/ action taken report along with the amount spent with documentary proof shall be submitted to the concerned Regional Office of the Ministry for the activities carried out during the previous year.
1.17	Project proponent shall monitor the heavy metal in the water samples at least twice/year, and install the piezometers for regular monitoring of groundwater level. Report shall be submitted along with six-monthly compliance reports to the concerned Regional Office of the Ministry.
1.18	Project proponent to undertake the recruitment of a full-fledged qualified manpower with Environmental Engineer/Env. Science degree background in Environment Management Cell etc., at coal washery plant for compliance of EC conditions.
1.19	Raw coal, washed coal and rejects shall be stored in covered storage facility. Fixed-type high-pressure sprinkler shall be installed in this storage yards.
1.20	Project proponent shall deploy the overall fleet of dumpers/trucks/other vehicles as electrical or CNG/LNG based for transportation of coal/OB etc and use e-vehicles for transportation of manpower.
1.21	Project proponent shall construct a 20 ft height wind barrier with galvanized/metal sheet all around the boundary of the washery and install fixed-type water sprinkler all along the boundary wall.
1.22	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

Standard EC Conditions for (Coal washeries)

1. Statutory Compliance

S. No	EC Conditions
1.1	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.3	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.4	Coal beneficiation practices shall be carried out under strict adherence to provisions of the Factories

S. No	EC Conditions
	Act, 1957 and subordinate legislations made there under.

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.
2.2	Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.
2.3	All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned. Coal transportation shall be carried out by covered cross country belt conveyor.
2.4	Vehicular emissions shall be kept under control and regularly monitored. The vehicles having 'PUC' certificate from authorized pollution testing centres shall be deployed for washery operations.
2.5	Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads
2.6	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.

3. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
3.1	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
3.2	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity

S. No	EC Conditions
	with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

4. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
4.1	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
4.2	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
4.3	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time.
4.4	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the washery. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side stabilised with plantation so as to withstand the peak water pressure preventing any chance of inundation.
4.5	Heavy metal content in raw coal and washed coal shall be analysed once in a year and records maintained thereof.
4.6	An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/pond/lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MoEFCC and implemented.
4.7	Waste Water shall be effectively treated and recycled completely either for washery operations or maintenance of green belt around the plant. The washing technology so chosen should conform to 'Zero Liquid Discharge
4.8	No ground water shall be used for coal washing unless otherwise permitted in writing by competent authority (CGWA) or MoEFCC. The make-up water requirement of washery should not exceed 1.5 m3/tonne of raw coal.
4.9	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
4.10	The project proponent shall take all precautionary measures to ensure riverine/ riparian ecosystem

S. No	EC Conditions
	in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government

5. Green Belt

S. No	EC Conditions
5.1	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

6. Public Hearing And Human Health Issues

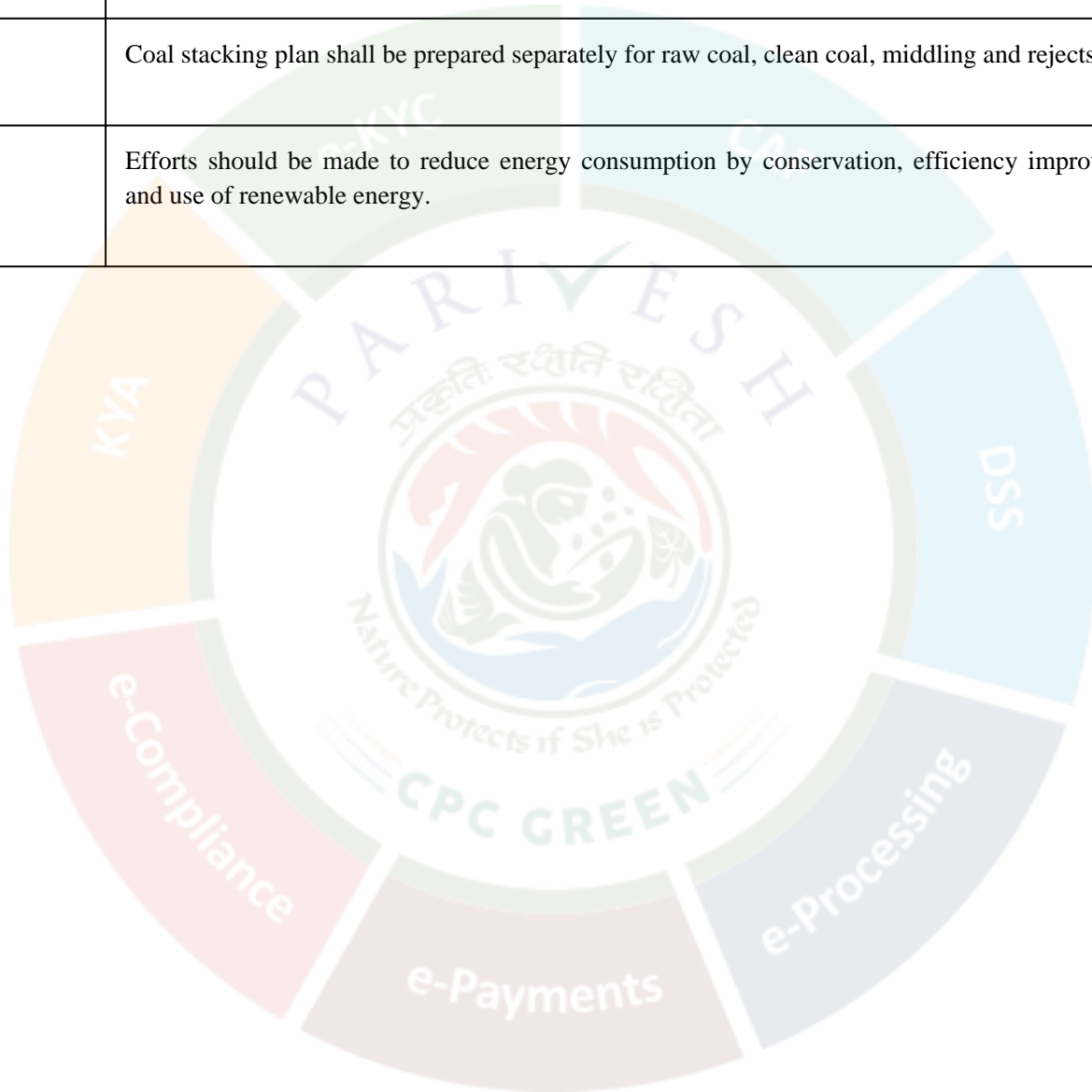
S. No	EC Conditions
6.1	Adequate illumination shall be ensured in all washery locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.
6.2	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
6.3	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
6.4	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

7. Miscellaneous

S. No	EC Conditions
7.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website

S. No	EC Conditions
	permanently.
7.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
7.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
7.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
7.5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
7.6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
7.7	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
7.8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
7.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
7.10	No change in coal beneficiation process and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) with such conditions mentioned therein. No change in the maximum quantum of raw material feed per annum against the approved washery capacity shall be made.
7.11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
7.12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7.13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
7.14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

S. No	EC Conditions
7.15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
7.16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
7.17	Coal stacking plan shall be prepared separately for raw coal, clean coal, middling and rejects.
7.18	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.



Action Plan for the issues raised during the PH is as follows:

Proposed Activities under Public Hearing Commitment Scheme		Place of Implementation	Phasing of Allocated proposed PH commitment Budget										
			(Rs. in INR)										
			Year-1	Year-2	Year-3	Year-4	Year-5	Year-6	Year-7	Year-8	Year-9	Year-10	Total
Infrastructure development	1. Solar Street Light (Approx. 100 Nos.)	7 Nos. Solar street light in L type colony (from Qtr No 199 to 210). Seven Lakes area Solar street lights would be installed in whole town where the road is damaged and as per the demand received from the public. On the main road at the interval of 10 meter between two lights on the main road from L-516 from residence to M-39 to 40 (area extending from Langra bridge to Jai Hind more upto the point where ward/name signboard is there).	2500 00	2500 00	50 00 00	5000 00	2500 00	2500 00	0	2500 00	50, 00 0	50,0 00	2350 000
	2. Construction/Repair of Pucca Road	Seven Lakes Kalyan Kendra (Entrance and Exit) Repair - L type - colony (from Qr No - 199 to 210 and 163 to 186) Colony of Quarter J-12 From Qr No - SK4 - 125 to 149, 150 to 172 From Officers Club to Quarter Rk1 60 and upto Rk1 51	0	2000 000	20 00 00 0	2000 000	2000 000	2000 000	40 00 00 0	2000 000	20 00 00 0	2000 000	2000 0000
	3. Waiting Halls in Buffer Zone as per the location (16 Nos.)	1. Sindri Auto Stand (Near Kalpana Talkies) 2. Hatia Market (Saharpura) 3. Near ACC Main Gate 4. Rohrabandh Auto Stand (Near SBI Sindri) 5. In front of Bank of India (in front of BIT gate) 6. In front of BIT Main gate 7. In front of Community Health Centre, Gaushala Bazar 8. Kandra Bazar 9. Chasnala Bazar 10. Loco Bazar 11. Sudamdih Auto Stand 12. In front of BIT east Campus 13. Birsa Kanhu Chowk Gulitand More	0	4000 00	40 00 00	4000 00	4000 00	4000 00	40 00 00	4000 00	80 00 00	4000 00	4000 000

		14. Baghmara Panchayat - Suwaria 15. Near Jharkhand Public School (opposite Krishi Vigyan Kendra). 16. SBI Baliapur Bazar Branch											
	4. Park Seating Benches (155 Nos.)	1. Saharpura Market Complex, (8 nos.) 2. Rohrabandh Market Complex, (4 nos.) 3. Rangamati Market Complex, (5 nos.) 4. Jai Hind Market Complex, (4 nos.) 5. Manhortand Market Complex, (4 nos.) 6. Domgarh Market Complex, (4 nos.) 7. At Weekly Vegetable Market (Hatia), Saharpura, (10 nos.) 8. Near Sindri Auto Stand, (3 nos.) 9. Near Sai Mandir, Sindri, (3 nos.) 10. Near De nobili School, Sindri, (3 nos.) 11. Near SBI Sindri Branch, (3 nos.) 12. Near Officers Club Sindri, (2 nos.) 13. Near Paokodi More, Manohartand, (2 nos.) 14. Near Canara Bank, Sindri, (2 nos.) 15. Near Bank of India, Sindri, (3 nos.) 16. Near Hanuman Mandir (Atal Chowk), (4 Nos.) 17. Near Kandra Bazar, (6 nos.) 18. Near Chasnalla Bazar, (6 nos.) 19. Near Loco Bazar, Market (5 nos.) 20. Near Sudamdih auto stand, (6 nos.) 21. Near BIT east campus, (3 nos.) 22. Birsa Kanhu Chowk Gulitand, (3 nos.) 23. Kalyan Kendra (20 nos.) 24. Eleven Star Club, L type Colony (6 nos.) 25. Youth Club Ground (6 nos.)	62,000	62,000	62,000	62,000	62,000	62,000	62,000	62,000	62,000	62,000	620,000
Safety & Security	5. Installation of CCTV and necessary fixtures (64 Nos.) with provision of connection to Sindri Police Station	Hanuman Mandir at IM Type Quarters, Aurbindo Society, Kali Mandir, Rajabasti (11 Locations) xii. Near Saraswati Vidya Mandir (roundabout covering the auto stand area).	0	2000000	2000000	2000000	2000000	4000000	2000000	2000000	2000000	2000000	2000000

		<p>xiii. At main road near Tina Market, Saharpura</p> <p>xiv. Near De nobili School,</p> <p>xv. Near DAV School,</p> <p>xvi. At main road near FCIL Guest House</p> <p>xvii. At main road near HURL Guest House</p> <p>xviii. At Chhath Talab, Rangamati</p> <p>xix. Main Road near to Seven Lakes, Sindri</p> <p>xx. At Main Road on the Pokaudi More</p> <p>xxi. Atal Chowk Round-about</p> <p>xxii. At Main Road entry to Sindri Railway station</p> <p>xxiii. Main road at Rangamati Basti</p> <p>xxiv. On entry/exit gates (3) of the Park situated at Jai Hind More</p> <p>xxv. At Hirak Road and Basti Road Intersection.</p> <p>xxvi. At main road near Raja-basti Primary School</p> <p>xxvii. At main road near Baliapur Institute of Technology East Campus</p> <p>xxviii. At main road near Maxx Plus Hospital, Krishi Vigyan Kendra on the deuli-khairpal Road</p> <p>xxix. At main road near BDO office, Baliapur</p> <p>xxx. At main road on the Seven Lake Area</p> <p>xxxi. Near Railway crossing (road entering BIT campus)</p> <p>xxxii. Main road at Sindri College, Manohartand</p> <p>xxxiii. Main road at Manohartand Basti</p> <p>xxxiv. At main road near Middle School, Baradaha</p> <p>xxxv. At main road near Middle School Raghunathpur (Jharkhand)</p> <p>xxxvi. At main road near Asanbani Village facing deuli-khairpal Road.</p> <p>xxxvii. At main road near S.P Primary School, Ichhar, WB</p> <p>xxxviii. At Domgarh Nauka Ghat, Ichhar, WB</p> <p>xxxix. At Main road near, PDIL old Office.</p> <p>xl. At main road near Rangamati Electric Substation.</p> <p>xli. Angan badi Kendra, Prem Nagar, Sindri Baliapur Rd, Raghunathpur</p>										
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		xlii. Baradaha Panchayat Bhawan, Baradaha xliii. Dudhia Panchayat Bhawan, Dudhiya xliv. Baghmara Panchayat, Suwaria Govt. Polytechnic College, Bhaga xlv. Canara Bank, Parasbania, Parasbania panchayat, Parasbania xlvi. Youth Club, Saharpura xlvii. Intersection Point at Baliapur-Gobindpur Road in Baliapur xlviii. At BIT main gate xlix. At Community Health Centre, Gaushala Bazar l. Main road at Kandra Bazar li. Main road at Chasnala Bazar lii. Crossing at Bir Birsa Sido Kanhu Chowk Road liii) Kalyan Kendra Control Rooms with all required amenities (computer, laptop, router etc.) shall be set up at Local police station, Sindri by the Project Proponent for monitoring of CCTV											
	6. Repair to Patrol Van of Sindri Police Station	Sindri Police Station	0	0	0	5000 00	0	0	0	0	0	0	5000 00
Cultural	7. Rejuvenation of seven lakes by the following activities: Desilting and Deeping of Ponds, Weed removal and surrounding cleanup, Solid Waste Management (Bins), Pole lights (Solar), Seating Benches & Pucca Roads in the ghat perimeter for Beautification	At Seven Lakes	0	1000 000	10 00 00 0	1000 000	1000 000	1000 000	10 00 00 0	1000 000	10 00 00 0	1000 000	9000 000
Sports & Youth	8. Renovation of Eleven Star Club & Youth Club Play Ground at L type by the following activities: Renovation of Volleyball Cricket ground, Weed and debris cleanup leveling of the ground, installation of sitting benches	Eleven Star Club & Youth Club Play Ground	0	0	40 00 00	2000 00	1000 00	50,0 00	50, 00 0	50,0 00	0	3000 00	1150 000
	9. Renovation of Kalyan Kendra Stadium by the following activities: Seats setup, Set up of Open air gym, Renovation of Basketball.	Kalyan Kendra Stadium	0	0	10 00 00 0	1000 000	1000 000	2000 000	10 00 00 0	1000 000	10 00 00 0	1000 000	9000 000

	Volleyball, Cricket, Ground Flood lights, Running Track, Installation of Entry/Exit Gate												
	10. Renovation of Swimming Pool at Kalyan Kendra by the following activities: i. Carrying out all the necessary cleaning (with chlorine agent) & maintenance work related to the water treatment and supply to the Pool. ii. Renovation of the pool premises, diving platform. iii. Construction of 5 Change rooms with bathroom with all necessary fixtures. iv. Benches around the pool for seating v. Solar Lights around the Pool vi. Providing Life Jackets, Swim Rings, Ropes, alarm system for safe pool operation.	Swimming Pool at Kalyan Kendra	0	5000 00	40 00 00	2500 00	2500 00	4000 00	50, 00 0	50,0 00	20 00 00	2000 00	2300 000
	11. Renovation of Sindri Kalyan Kendra Stadium by the following: i. Carrying out all necessary repairs/replacement before installation of new seats ii. Construction of Open Air Gym iii. Renovation of Basketball ground iv. Development of Volleyball ground v. Installation of Flood lights for the coverage of entire ground. vi. Upgradation of existing Running Track in Kalyan Kendra vii. Installation of CCTV on the entry/exit gates viii. Installation of New gates (2) at the Kalyan Kendra ix. Providing Gym equipment such as Running Treadmill, Air bike gym	Kalyan Kendra	0	0	0	0	0	0	10 00 00 0	1000 000	0	0	2000 000

	bicycles, Resistance Tube, Kettlebells, Gym Bench, x. Construction of an indoor play room for the following games – Badminton, Table Tennis, foosball etc. xi. Construction of Black Top road at both the entrances (roughly 200 meters combined)												
	12. Set up of Indoor Sports room with games such as Table Tennis, Chess, billiards, Squash at Kalyan Kendra, Sindri	Kalyan Kendra	0	0	0	0	0	1000 000	10 00 00 0	0	0	0	2000 000
Plantation	13. Plantation of Fruit Bearing and Medicinal Properties Trees and Plants in Buffer Zone in Consultation with Statutory Local Bodies (3000 Nos.)	In buffer zone	2000 000	2000 000	20 00 00 0	2000 000	2000 000	2000 000	20 00 00 0	2000 000	20 00 00 0	2000 000	2000 0000
Healthcare	14. Set up of Health Care Facility with infrastructure facilities such as beds, medical instruments, pathological lab, testing instruments and other necessary facilities		0	0	0	3000 000	4000 000	4000 000	40 00 00 0	4000 000	10 00 00 0	0	2000 0000
	15. Medical Camp at buffer zone villages & town for free consultation, medicines and treatment (first five years at 1 Month interval thereafter at 3 months interval)	The Project Proponent would organize medical camp in the buffer zone. Medicines, treatment as well as consultation shall be free of cost.	1500 000	1000 000	10 00 00 0	1000 000	1000 000	5500 00	55 00 00	5500 00	50 00 00	5000 00	8150 000
	"Providing Medical Equipments such as X-ray, ECG Machine, Portable Testing Kits, First Aid kits in consultation with PHC & CHC officials. Equipments for PHC and CHC of Chasnalla and Kandra"				70 00 00 0	3000 000							1000 0000
	Strengthening of Existing SAIL Dispensary		2500 000	2500 000									5000 000
	16. Ambulance (Tata Winger Ambulance) for Sindri and Buffer Zone Habitations	Ambulance service will be available for all residents in the buffer zone	0	0	0	0	3000 000	0	0	0	0	0	3000 000

Environmental Remediation	17. Weed and Bush Clean up in Buffer Zone	At Seven Lake area IM Type Colony –(Near Qtr 449-450) Youth Club Eleven Star Club Kalyan Kendra ground, pool and vicinity zones. RK1 Colony (Near Qr No –RK1 - 54) SK4 Colony - (Near Qr No - SK4 - 125 to 149, 150 to 172) At or Near Religious Places such as Temples and gurdwaras Parks	3000 00	3000 00	30 00 00	3000 00	3000 00	3000 00	30 00 00	3000 00	30 00 00	3000 00	3000 00
Solid Waste Management	18. Installation of 1000 Litre Garbage Collection Cans in Town/Buffer zone habitations as well as Kalyan Kendra, Seven Lakes etc. (200 Nos.)	Seven Lakes Designated Market areas such as i. Saharpura Market Complex, ii. Hatia Market Complex, Saharpura iii. Rohrabandh Market Complex, iv. Kalyan Kendra Complex, v. Rangamati Market Complex, vi. Jai Hind Market Complex, vii. Manhortand Market Complex, viii. Domgarh Market Complex ix. Kandra Market Complex x. Chasnala Market Complex Kalyan kendra Near Places of Worship and other locations which will be decided in consultation with the Municipal Corporation	3000 00	3000 00	30 00 00	3000 00	3000 00	3000 00	30 00 00	3000 00	30 00 00	3000 00	3000 00
Water Conservation & Drinking Water Infrastructure	19. Construction of Hand pump at L type & Rk1 Quarters as per Action Plan (2 Nos.)	Near Quarter L-186 with proximity to the main road, Near RK1 -54 Quarter colony	150, 000	0	0	0	0	0	0	0	0	0	150, 000
	20. Rainwater Harvesting Structure Pits in Buffer Zone (50 Nos.)	Location of RWH pits will be decided in coordination with local bodies	0	2000 00	20 00 00	2000 00	4000 00	2000 00	20 00 00	2000 00	20 00 00	2000 00	2000 00
Water & Sanitation	21. Construction of Toilets (15 units with 3 M & 3F)	Toilets (3 Male, 3 Female) and two basins with 300 litre Overhead water tank proper water supply arrangement at each of the following market - i. Saharpura Market Complex, ii. Hatia Market Complex, Saharpura iii. Rohrabandh Market Complex, iv. Kalyan Kendra Complex, v. Rangamati Market Complex, vi. Jai Hind Market Complex, vii. Manhortand Market Complex, viii. Domgarh Market Complex ix. Kandra Market Complex x. Chasnala Market Complex xi. Sindri Town Railway Station (Repair, Renovation and upgradation) xii. One toilet complex with 4 bathroom (toilet) (2M, 2F) and 2	0	3750 00	37 50 00	3750 00	3750 00	3750 00	37 50 00	3750 00	37 50 00	7500 00	3750 000

		basins with fauces and overhead water tank (300 litres) for water supply at Durga Temple near SK4 Locality. xiii. At Kalyan Kendra Swimming Pool toilet complex with 4 bathroom (toilet) (2M, 2F) and 2 basins with fauces											
	22. Construction/Repair of Cement Lined Drains	RML – 133 to 140 From Veterinary Hospital L - 330 to M - 39 to 40 on the main road connecting with the colony drainage Repair and conversion of drainage to cement lined drainage in Colony of L-186 Repair and conversion of drainage to cement lined drainage in Colony of IM-445 to IM-468	1000 000	8000 00	70 00 00	9000 00	7000 00	8000 00	80 00 00	1000 000	70 00 00	7000 00	8100 000
	23. Manhole Cover at Eleven Star Club (1 Nos.)	Eleven Star Club, Saharpura	0	30,0 00	0	0	0	0	0	0	0	0	3000 0
Education & Livelihood Generation	24. Installation of Solar Panels and related Equipment at Aurbindo Society (10 Kw)	Aurbindo Society near Rangamati	0	4000 00	50 00 00	0	0	2000 00	0	0	0	2000 00	1300 000
	25. Skill Development Training Center (Skill Development Training for operators, fitters, electricians)		2000 000	4000 00	20 00 00	1000 000	4000 00	2000 00	10 00 00 0	4000 00	20 00 00	1000 000	6800 000
	26. Training centers for Ladies (stitching, Embroidery, tailoring etc.)												
Total			1006 2000	1451 7000	20 33 70 00	1998 7000	1953 7000	2008 7000	20 08 70 00	1693 7000	12 68 70 00	1296 2000	1672 0000 0

**KALYANESWARI TASRA MINING PRIVATE LIMITED**

FLAT NO.603, PINE TOWER, C/O: APANO GHAR,
TAPOWAN COLONY, NAWATANRALIAS GOSAINDI,
DHANBAD, JHARKHAND - 828109.
E Mail: info@ktmpl.co.in

**ANNEXURE-II****WORK ORDER**

Details of Service Provider	Details of Billing Address	Work Order No : 6000041117 Work Order Date : 29.08.2024 Amendment :0
Name : Indian Institute of Technology Address :GROUND FLOOR, IIT ISM, ADMINISTRATI JHARKHAND Vendor code :508336 PAN No :AAAAI0686D State, :Jharkhand State Code :20 GSTIN/Unique ID :20AAAAI0686D1ZA	Name :KT MPL-MDO Address :Sindri, DHANBAD,JHARKHAND - 828122 State :JHARKHAND State Code :20 GSTIN/Unique ID :20AAKCK4699L1Z0	Site :Kalyaneswari Tasra Mining Pvt (5885) Quotation Ref : Quotation Date : PR Ref : Delivery Address Site Name : KT MPL-MDO Address : Sindri, , DHANBAD,JHARKHAND 828122

Comprehensive Hydrological Study to assess the impact of Nalas and Damodar River on Kalyaneswari Tasra Mining Pvt.Ltd. Mining area, Tasra, Sindri#

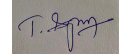
WO Period From DT: 29.08.2024

WO Period To DT: 31.08.2025

S.No	HSN Code/SAC	Desp. of Goods/Services	Total Taxable Value	CGST Rate	CGST Amt	SGST/ UTGST Rate	SGST/UTGST Amt	IGST Rate	IGST Amt	Amount(INR)
1		To Provide the Comprehensive	15,000,000.00	9%	1,350,000.00	9%	1,350,000.00	0 %	0.00	17700000
Total			15,000,000.00		1350000		1350000	0		17700000
Basic Price + Tax			17,700,000.00							
Total			17,700,000.00							

Total Value in Words : ONE CRORE SEVENTY SEVEN LAKH RUPEES ONLY

WORK ORDER



Commercial Dept
Prepared By

PROJ. DIRECTOR

COO

DGM Civil

CA - Site

AGM (PUR)

CEO

Kalyaneshwari Tasra Coal Mining Project Sindri						
Plantation Details Year 2024/25						
Sr	date of planting	Description	Qty	Cost	Location/area	Remark
1	22/07/2024	Ficus Religiosa	50	4500	Old ob dump	
2		Butea monosperma	20	2000	area	latitude/longitude
3		Pongamia pinnta	40	3600	0.02 hec	23.6422, 86.4838
4		bamboosa	20	1800		
5		Ficus virens	30	3000		
6		Ficus Benghalensis	40	4000		
7		Terminalia Arjun	30	3000		
8		Azadirachta indica	40	4000		
9		Devil plant	20	1000		
10		Teak/sagwan	10	700		
			300	27600		
1		manpower= 12				
		Fertilizer Vermi compost/npk/potash/zink				
2		Thimet		15000		
		Total		42600		

Haseeb
18.07.2024

Proposed By

Above plants/saplings
have been planted & taken care

Recommended By

Approved By







शहरपुरा सिंदरी धनबाद समेत पुरे देश में

श्रावण मास शुभारंभ प्रथम दिवस प्रथम सोमवारी को मंदिरों में भक्तों का लगा तांता



* शहरपुरा सिंदरी धनबाद समेत पुरे देश में श्रावण मास शुभारंभ प्रथम दिवस प्रथम सोमवारी को मंदिरों में भक्तों का लगा तांता भक्तों की श्रद्धा भक्ति अनुराग अपरंपार हैं जो देखते बन रहा है।।

शहरपुरा शिव मंदिर में मंदिर के मुख्य पुजारी श्री शिव बहादुर तिवारी विधिवत पुजा अर्चना करवाने में लगे हैं वहीं सचिव दिनेश सिंह, साथ में प्रशांत कुमार दुबे, बिनोद कुमार प्रसाद, सुमंत सिंह चौहान, पंडित जितेंद्र तिवारी, बद्री सिंह, ब्रजेश सिंह, अर्चना मुकेश सिंह, रंजना शर्मा, उमा शर्मा, पवन शर्मा, मनोज माली, बड़कु माली, अनिता श्रीवास्तव, शशि कला देवी, अंजनी तिवारी, उषा तिवारी, जितेंद्र यादव, सुरेंद्र सिंह, रामजी सिंह, एस सी के प्रदीप पाण्डेय, अनुज कुमार, अशोक दुबे, अमरनाथ दुबे, अंजना कर, उषा सिंह, महेश सिंह, राजेश सिंह, ओमेश्वर सिंह, महासंग्राम, डाक्टर एस एस साहू, मनोज मिश्रा, किरण मिश्रा, राजकुमार, पवन ओझा, उमेश सिंह, मृत्युंजय कुमार, मुकेश सिंह, धनंजय कुमार, मृत्युंजय कुमार, राकेश तिवारी, अरविन्द पाठक, जय प्रकाश चौरसिया, रांगा दुबे, अमित यादव, अजय दास, ओमेश्वर सिंह, समेत सैकड़ों भक्त जलाभिषेक पुजा अर्चना किए और मंदिर में अनुकूल व्यवस्था के लिए तत्पर दिखे।।

पुर्व पार्षद सह मंदिर कमेटी के सचिव दिनेश सिंह साथ में सनातनि सभ्यता संस्कृति उत्थान कमेटी के अध्यक्ष सह मुख्य जीवन बीमा सलाहकार प्रशांत कुमार दुबे, मंदिर के मुख्य पुजारी महाराज जी शिव बहादुर तिवारी, राजश्री प्रिंटर्स के बिनोद कुमार प्रसाद, फायर ब्रिगेड अधिकारी सुमंत सिंह चौहान ने प्रथम सोमवारी पर शुभकामना व्यक्त करते हुए बधाई देते हुए सबके लिए मंगलकामना किए।।

फायर ब्रिगेड के श्री सुमंत सिंह चौहान विशेष रुप से सुबह से पौछा लेकर शहरपुरा शिव मंदिर में साफ सफाई में लगे रहे।। श्री सुमंत सिंह अपने कर्तव्यों का निर्वहन बहुत तन्मयता से करते हैं तथा बहुत ही श्रद्धापूर्वक भक्ति भजन पुजन में तन मन धन से भरपूर लगे रहते हैं जो अनुकरणीय हैं। मंदिर में अधिसंख्य श्रद्धालु माताएं बहनें श्रद्धापूर्वक पुजा अर्चना करते हुए परिक्रमा कर रहीं जो शिव मंदिर भगवान शिव शंकर/नंदी महाराज/राम दरबार/राधाकृष्ण/लक्ष्मी नारायण/गायत्री/मां दुर्गा की पूजा के साथ साथ

धनबाद सिंदरी।

बीआईटी सिंदरी में इलेक्ट्रिक वाहनों पर कार्यशाला का तीसरा दिन सफलतापूर्वक संपन्न

सिंदरी बीआईटी सिंदरी के विद्युत अभियांत्रिकी विभाग द्वारा आयोजित इलेक्ट्रिक वाहनों पर कार्यशाला का तीसरा दिन सफलतापूर्वक संपन्न हुआ, जिसमें प्रतिभागियों और संयोजकों से उत्साही प्रतिक्रिया प्राप्त हुई। संयोजक डॉ. राहुल कुमार और डॉ. मुरली मनोहर ने तेजी से विकसित हो रहे इलेक्ट्रिक वाहन (ईवी) प्रौद्योगिकी क्षेत्र में शोधकर्ताओं के लिए सत्र की मूल्यवान अंतर्दृष्टि की प्रशंसा की।

दिन का मुख्य आकर्षण था थापर इंजीनियरिंग एंड टेक्नोलॉजी संस्थान के डॉ. अभिषेक पाल द्वारा दिया गया एक प्रभावशाली प्रस्तुतीकरण, जिसका शीर्षक था "इलेक्ट्रिक वाहन: इतिहास, रुझान और प्रौद्योगिकी का अवलोकन"। डॉ.

पाल के प्रस्तुतीकरण में ईवी का इतिहास, वर्तमान बाजार रुझान, ईवी अपनाने के प्रमुख कारक, विभिन्न प्रकार के ईवी और ईवी प्रौद्योगिकी से संबंधित मोटर्स और नियंत्रण संरचनाओं का विस्तृत विवरण शामिल था।

सत्र का समन्वय, जिसे डॉ. दीपेश कुमार और डॉ. राजेश नारायण देव ने कुशलता से प्रबंधित किया, ने सभी उपस्थित लोगों के लिए एक सहज और रोचक अनुभव सुनिश्चित किया। कार्यशाला के महत्व को विभागाध्यक्ष डॉ. एमडी अबुल कलाम, डॉ. आलोक मनस दुबे और प्रोफेसर मत्ता मणि शंकर जैसी प्रतिष्ठित प्राध्यापकों की उपस्थिति ने और बढ़ाया, जिन्होंने इस आयोजन के प्रभावशाली संवाद में योगदान दिया।



यह कार्यशाला इलेक्ट्रिक वाहन प्रौद्योगिकी के क्षेत्र में ज्ञान को आगे बढ़ाने और सहयोग को बढ़ावा देने के लिए एक महत्वपूर्ण मंच के रूप में कार्य करना जारी रखती है।

टासरा खुली खदान परियोजना, सेल में वृक्षारोपण सम्पन्न



दामोदर नदी किनारे 300 पौधारोपण किया गया। जिसमें बरगद, पीपल, नीम, सागौन, बांस एवं अर्जुन आदि पौधों का वृक्षारोपण किया गया।

सिंदरी। श्रवण मास (सावन) के पहले दिन सेल महाप्रबंधक श्री शिवराम बनर्जी के नेतृत्व में सेल एवं केटीएमपीएल द्वारा संयुक्त रूप से टासरा डम्प क्षेत्र दामोदर नदी

श्री शिवराम बनर्जी ने उपस्थित लोगों को आह्वान किया और कहा कि वृक्षारोपण का उद्देश्य पर्यावरण की रक्षा एवं पर्यावरण के प्रति जागरूकता फैलाना है। वृक्षारोपण

उपस्थित अधिकारियों द्वारा सघन पौधारोपण किया गया।

उक्त वृक्षारोपण कार्यक्रम में सेल उपमहाप्रबंधक-पर्यावरण श्री पंकज

उपस्थित थे, साथ ही केटीएमपीएल के अधिकारियों में सीओओ श्री प्रवीण कोटा, परियोजना निदेशक श्री टी.रमेश, एचआर प्रमुख श्री चिद्री बाबू, माइनिंग प्रमुख श्री

सिंदरी के शिवालयों में उमड़ा भक्तों का सैलाब



सिंदरी। हिन्दू मान्यताओं के अनुसार पावन माह श्रावण के पहले सोमवारी को भक्तों का सैलाब सिंदरी के शिवालयों में सुबह से ही उमड़ पड़ा। इसमें ऐतिहासिक शहरपुरा शिव मंदिर, ब्रह्म शिव मंदिर, डोमगढ़ शिव मंदिर, एसीसी शिव मंदिर, साँवलापुर शिव मंदिर सहित अन्य शिवालयों में महिला पुरुष भक्त बोलबोल का नारा लगाकर शिवलिंग पर जल चढ़ाते दिखाई दिए।

ऐतिहासिक शहरपुरा शिव मंदिर कमेटी सचिव सह पूर्व पार्षद दिनेश सिंह ने भगवान भोलेनाथ को जल चढ़ाया और पूरे सिंदरी के शुभकामना की प्रार्थना की। उन्होंने कहा कि भक्तों का तांता लगा हुआ है। सोमवार के साथ ही आज से पवित्र माह श्रावण की शुरुआत भी हुई है। श्रावण ने





Kalyaneshwari Tasra Coal Mining Project Sindri					
Plantation Details Year 2024/25					
Sr	date of planting	Description	Qty	Cost	Location/area Remark
1	22/07/2024	Ficus Religiosa	50	4500	Old ob dump
2		Butea monosperma	20	2000	area
3		Pongamia pinnta	40	3600	0.02 hec
4		bamboosa	20	1800	
5		Ficus virens	30	3000	
6		Ficus Benghalensis	40	4000	
7		Terminalia Arjun	30	3000	
8		Azadirachta indica	40	4000	
9		Devil plant	20	1000	
10		Teak/sagwan	10	700	
			300	27600	
1		manpower= 12			
		Fertilizer Vermi compost/npk/potash/zink			
2		Thimet		15000	
		Total		42600	

Harish
18-07-2024
Proposed By

Above plants/fertilizer
have been planted & taken care
Signature
Recommended By

Approved By





झारखण्ड सरकार

समाहरणालय धनबाद

(जिला योजना शाखा)

Phone No. - 6201163467

Email ID :- dhanbad.dp@gmail.com

पत्रांक.....41...../जि0यो0

प्रेषक,

जिला योजना पदाधिकारी
—सह— सदस्य सचिव,
Dist. CSR Committee, धनबाद।

सेवा में,

महाप्रबंधक,
SAIL, चासनाला, धनबाद।

विषय:-

धनबाद, दिनांक 30/01/2024
“आपकी योजना-आपकी सरकार आपके द्वारा” कार्यक्रम के तहत धनबाद जिलान्तर्गत सभी पंचायतों में फलदार पौधा वितरण हेतु CSR मद में राशि उपलब्ध कराने के सम्बन्ध में।

प्रसंग:-

इस कार्यालय पत्रांक 285/जि0यो0 दिनांक 21.11.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र का कृपया सन्दर्भ करें। उक्त प्रासंगिक पत्र के द्वारा “आपकी योजना-आपकी सरकार आपके द्वारा” कार्यक्रम के तहत धनबाद जिलान्तर्गत सभी पंचायतों में फलदार पौधा वितरण हेतु सी0एस0आर0 खाता का विवरण उपलब्ध कराते हुए CSR मद में 8,00,000/- (आठ लाख) रुपये उपलब्ध कराने हेतु अनुरोध किया गया है। जिसके परिपेक्ष्य में आपके द्वारा दिनांक 22.11.2023 को ई-मेल संवाद के द्वारा उक्त राशि सी0एस0आर0 मद में उपलब्ध कराने हेतु सहमति दी गई है।

उक्त के क्रम में आपके ई-मेल संवाद के आलोक में इस कार्यालय पत्रांक 289/जि0यो0 दिनांक 24.11.2023 के द्वारा धनबाद जिलान्तर्गत सभी प्रखण्डों में फलदार पौधा उपलब्ध/वितरण करने हेतु अधिकृत एजेन्सी को कार्यादेश निर्गत गया था। संबंधित अधिकृत एजेन्सी के द्वारा जिला कार्यक्रम प्रबंधक, JSLPS से राशि भुगतान हेतु अनुरोध किया जा रहा है। परन्तु आपके द्वारा अबतक अधियाचित राशि सी0एस0आर0 मद उपलब्ध नहीं कराये जाने के कारण राशि के भुगतान की कार्रवाई करना संभव नहीं हो पा रहा है।

अतः निदेशानुसार अनुरोध है कि उक्त अधियाचित राशि जिला प्रशासन के सी0एस0आर0 मद में यथाशीघ्र उपलब्ध कराया जाय, ताकि भुगतान हेतु नियमानुसार आवश्यक कार्रवाई किया जा सके।

विश्वसभाजन

30.01.24
जिला योजना पदाधिकारी
—सह— सदस्य सचिव,
Dist. CSR Committee, धनबाद।



(no subject)

ss singh <sailcdcsr@gmail.com>

Wed, Jul 24, 2024 at 3:35 PM

To: DRDA DHANBAD <drda.dhanbad@gmail.com>, Planning and Development Chasnalla <pd.sailchasnalla@gmail.com>

Cc: Sanjay Tewary <hr.sailcoal@gmail.com>

Dear Sir

Pls find attached the payment made of Rs 8 lakhs by SAIL Collieries towards tree plantation. This is for your kind information and compliance.

Regards

Debit Status
Success

PAY
CSR DEVELOPMENT ACTIVITIES

RUPEES (in words)
Eight Lakhs only

ACCOUNT NO
00000030449188115

STATE BANK OF INDIA
CHASNALLA

RANA
RAMKRISHNA
SINGH
CRG0261232*

Counterfoil Description
Payment towards Invoice/Bill

Transaction Type
RTGS Funds transfer

GSTIN Number
--

Debit Account Details

Account No.	Branch	Amount
00000030449188115	CHASNALLA	8,00,000.00

Credit Account Details

Beneficiary Name/Account No.	Bank/Branch/IFSCCode	Amount
CSR DEVELOPMENT ACTIVITIES/474810110010611	COMBIND BUILDING/COMBIND BUILDING/BKID0004748	8,00,00

On Thu, 28 Mar 2024 at 16:05, DRDA DHANBAD <drda.dhanbad@gmail.com> wrote:

Dear sir,

As per your requirement we are sending the certified Bill for further processing of the processing of Payment.

Looking forward

Regards

On Sat, 23 Mar 2024 at 13:36, General Manager Chasnalla <gmchasnalla@gmail.com> wrote:

Dear Sir,

With reference to your mail dated on 21.03.2024, please be informed that payment is disbursed only after the job is done by the party.

Simply submissions of Bill (which are not certified/endorsed by concerned official of Jharkhand Govt.) do not command job completion /execution.

However w.r.t. your mail it is given to understand that Utilization Certificate can be given after receipt of payment. In such a case, a Job Execution Certificate may be provided.

Please be kind to provide the same as early as possible for the payment before 31st March' 2024.

Thanking you

O/o GM I/C(T&C)

On Sat, Mar 23, 2024 at 12:31 PM ss singh <sailcdcsr@gmail.com> wrote:

----- Forwarded message -----

From: **DRDA DHANBAD** <drda.dhanbad@gmail.com>

Date: Thu, 21 Mar 2024 at 18:19

Subject: Re:

To: General Manager Chasnalla <gmchasnalla@gmail.com>

Cc: Planning and Development Chasnalla <pd.sailchasnalla@gmail.com>, <sailcdcsr@gmail.com>, Sanjay Tewary <hr.sailcoal@gmail.com>, <dmmu.dhanbad.jslps@gmail.com>

Dear Sir

As per the trail mail we would like to inform you that still payment has not been processed/ received in our account. As soon as the amount will be received we will provide you the utilization certificate.

Further requesting you to kindly process for payment of the bill account in our account so that utilisation certificate may be given to you.

Thanking You

On Thu, 21 Mar 2024 at 14:19, General Manager Chasnalla <gmchasnalla@gmail.com> wrote:

Dear Sir,

In respect to our mail dated 25.11.2023 & further discussion with your concerned official, please be informed that we are committed towards 8(eight) lakhs for the purpose of plantation.

But for the necessary payment from our end, may please provide the Utilization Certificate duly signed by concerned official of Jharkhand Govt. with sealed w.r.t. the expenditure incurred for the said purpose.

It would be kind of you to provide the same within a day or two for necessary payment before 31st March' 2024.

Thanks & Regards

GM I/C(T&C)

On Thu, Mar 21, 2024 at 11:49 AM DRDA DHANBAD <drda.dhanbad@gmail.com> wrote:

Dear Sir,

This is to inform you that District Administration Dhanbad has requested for a Fund of Rupees 8 Lakh only for Plantation via Lt. No.41 Dated- 30.01.2024

Your Office has given us consent regarding providing funds of rupees 8 Lakhs in our CSR Account through Email- gmchasnalla@gmail.com, Date- 24.11.2023. On the basis of your consent we have given a Supply order to Shivam Nursery for Supply of Plants. We are very much disappointed that after written consent and several follow up still funds are not provided in our CSR Account.

We hereby submit the details of all communication done with your organization along with supply order given to vendor, copy of Bills and Photographs for your reference and further necessary action.

Looking forward

Regards

Manoj Kumar

Project Officer,

DRDA

Dhanbad



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87K







ADITI R&D SERVICES

Testing Laboratory

NABL ACCREDITED

(A Constituent Board of Quality Council of India)

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

Plot No. - I-B-17 (P) ANNEXURE-IV
Sindri, Industrial Area,
P.O. - Domgarh, Dist. - Dhanbad
Jharkhand - 828107
Email ID: sindriaditi@gmail.com
Website: aditimdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

TEST REPORT OF SURFACE WATER FOR THE MONTH OF NOVEMBER 2024

Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT	
ARDS/24-25/SW-01 Dt. 20/11/2024		TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD	
P.O. NO. & Date		6000036592 & Date : 29.01.2024	
Season		POST MONSOON	
Location of Sample Collection UPSTREAM OF DAMODAR RIVER		Analysis Started on	13/11/2024
Date & Time Sample Collection	12/11/2024	Analysis completed on	19/11/2024
Test Procedure		IS:3025	
TEST RESULT			
Sl. No.	Parameters	Value	(IS :2296) Surface Water Class “C” Tolerance Limit
1.	Colour Hazen units	3	300 (Max.)
2.	Dissolved Oxygen, mg/l	5.8	4 (Min.)
3.	B.O.D. (3 days at 27°C)	2.8	3 (Max.)
4.	Total Dissolved Solids mg/l, Max	370	1500 (Max.)
5.	pH Value	7.8	6.5 – 8.5
6.	Conductivity (µs/CM)	520	–
7.	Turbidity (NTU)	0.4	–
8.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	-	0.005 (Max.)
9.	Oil and grease, mg/l	BDL	0.1 (Max.)
10.	C.O.D., mg/l	137.6	-
11.	Total Suspended Solids , mg/l	23.1	-

Remarks: All the parameters of samples tested are within the permissible limit of General standard.
BDL – Below Detection Limit

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

Statements :

1. The test report refers only to the particular item(s) submitted for testing.
2. The test results reported in this report are valid at the time of and under the stated condition of measurement.
3. This particular test report cannot be reproduced except in full, without prior written permission of Quality Manager of the laboratory.



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Plot No. - I-B-17 (P)
Sindri, Industrial Area,
P.O.- Domgarh, Dist.- Dhanbad
Jharkhand - 828107
Email ID: sindriaditi@gmail.com
Website: aditirdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

TEST REPORT OF SURFACE WATER FOR THE MONTH OF NOVEMBER 2024

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/24-25/SW-02 Dt. 20/11/2024	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Season	POST MONSOON		
Location of Sample Collection DOWNSTREAM OF DAMODAR RIVER		Analysis Started on	13/11/2024
Date & Time Sample Collection	12/11/2024	Analysis completed on	19/11/2024
Test Procedure	IS:3025		
TEST RESULT			
Sl. No.	Parameters	Value	(IS :2296) Surface Water Class "C" Tolerance Limit
1.	Colour Hazen units	3	300 (Max.)
2.	Dissolved Oxygen, mg/l	5.6	4 (Min.)
3.	B.O.D. (3 days at 27°C)	2.7	3 (Max.)
4.	Total Dissolved Solids mg/l, Max	351	1500 (Max.)
5.	pH Value	7.9	6.5 – 8.5
6.	Conductivity (µs/CM)	0.51	—
7.	Turbidity (NTU)	1.2	—
8.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	-	0.005 (Max.)
9.	Oil and grease, mg/l	BDL	0.1 (Max.)
10.	C.O.D., mg/l	68.8	-
11.	Total Suspended Solids , mg/l	30	-

Remarks: All the parameters of samples tested are within the permissible limit of General standard.
BDL – Below Detection Limit

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

Statements :

1. The test report refers only to the particular item(s) submitted for testing.
2. The test results reported in this report are valid at the time of and under the stated condition of measurement.
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ADITI R&D SERVICES

Testing Laboratory

NABL ACCREDITED

(A Constituent Board of Quality Council of India)

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

TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Plot No. - I-B-17 (P)
Sindri, Industrial Area,
P.O.- Domgarh, Dist.- Dhanbad
Jharkhand - 828107
Email ID: sindriaditi@gmail.com
Website: aditimdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

REF. NO. OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/24-25/DW-01 Dt. 20/11/2024	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Season	POST MONSOON		
Location of Sample	DUBEY COLONY (CORE ZONE)		
Sample Description	GROUND WATER		
Analysis Started on : 12/11/2024			
Date of Sample Collection	11/11/2024	Analysis completed on	16/11/2024
Test Procedure	IS:3025		

TEST RESULT

Sl. No.	Parameters	Value	IS: 10500: 2012	
			Accepted Limit	Permissible Limit
1.	Colour Hazen units	1	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	Agreeable	Agreeable
4.	Turbidity NTU Max	7.2	1	5
5.	Total Dissolved Solids mg/l, Max	668	500	2000
6.	pH Value	7.1	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l, Max	348	200	600
8.	Calcium (as Ca) mg/l, Max	93	75	200
9.	Magnesium (as Mg) mg/l, Max	28	30	100
10.	Copper (as Cu) mg/l, Max	0.01	0.05	1.5
11.	Iron (as Fe) mg/l Max	0.02	1.0	NR
12.	Manganese (as Mn) mg/l, Max	NT	0.1	0.3
13.	Chlorides (as Cl) mg/l, Max	81.45	250	1000
14.	Sulphate (as SO ₄) mg/l Max	35	200	400
15.	Nitrate mg/l, (as NO ₃)	4.7	45	NR
16.	Fluoride (as F) mg/l	0.14	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, Max	NT	0.001	0.002
18.	Mercury (as Hg) mg/l, Max	NT	0.001	NR
19.	Cadmium (as Cd) mg/l, Max	NT	0.01	NR
20.	Selenium (as Se) mg/l, Max	NT	0.01	NR
21.	Arsenic (as As) mg/l, Max	NT	0.01	0.05
22.	Cyanide (as Cn) mg/l, Max	NT	0.05	NR
23.	Lead (As Pb) mg/l Max	NT	0.05	NR
24.	Zinc (as Zn) mg/l Max	3.6	5.0	15
25.	Anionic detergents (as MBAS), mg/l, Max	NT	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.02	0.05	NR
27.	Mineral Oil mg/l, Max	NT	0.01	NR
28.	Residual, free chlorine mg/l, Min	NT	0.2	1.0

Remarks: All the parameters of samples tested are within the permissible limit of Drinking Water Standard IS – 10500 : 2012, NT- NOT TRACEABLE

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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ADITI R&D SERVICES

Testing Laboratory

NABL ACCREDITED

(A Constituent Board of Quality Council of India)

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

Plot No. - I-B-17 (P)
Sindri, Industrial Area,
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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/24-25/DW-02 Dt. 20/11/2024	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Season	POST MONSOON		
Location of Sample	BIT COLLEGE (BUFFER ZONE)		
Sample Description	GROUND WATER		
Date of Sample Collection	11/11/2024	Analysis Started on :	12/11/2024
Test Procedure	IS:3025		Analysis completed on : 16/11/2024

Sl. No.	Parameters	Value	IS: 10500: 2012	
			Accepted Limit	Permissible Limit
1.	Colour Hazen units	4	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	Agreeable	Agreeable
4.	Turbidity NTU Max	5	1	5
5.	Total Dissolved Solids mg/l, Max	677	500	2000
6.	pH Value	7.2	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l, Max	538	200	600
8.	Calcium (as Ca) mg/l, Max	150	75	200
9.	Magnesium (as Mg) mg/l, Max	38	30	100
10.	Copper (as Cu) mg/l, Max	0.02	0.05	1.5
11.	Iron (as Fe) mg/l Max	0.04	1.0	NR
12.	Manganese (as Mn) mg/l, Max	NT	0.1	0.3
13.	Chlorides (as Cl) mg/l, Max	26	250	1000
14.	Sulphate (as SO ₄) mg/l Max	70	200	400
15.	Nitrate mg/l, (as NO ₃)	4.2	45	NR
16.	Fluoride (as F) mg/l	0.20	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, Max	NT	0.001	0.002
18.	Mercury (as Hg) mg/l, Max	NT	0.001	NR
19.	Cadmium (as Cd) mg/l, Max	NT	0.01	NR
20.	Selenium (as Se) mg/l, Max	NT	0.01	NR
21.	Arsenic (as As) mg/l, Max	NT	0.01	0.05
22.	Cyanide (as Cn) mg/l, Max	NT	0.05	NR
23.	Lead (As Pb) mg/l Max	NT	0.05	NR
24.	Zinc (as Zn) mg/l Max	3.2	5.0	15
25.	Anionic detergents (as MBAS), mg/l, Max	NT	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.02	0.05	NR
27.	Mineral Oil mg/l, Max	NT	0.01	NR
28.	Residual, free chlorine mg/l, Min	NT	0.2	1.0

Remarks: All the parameters of samples tested are within the permissible limit of Drinking Water Standard
IS - 10500 : 2012

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Plot No. - I-B-17 (P)
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Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512604

ANALYSIS REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024			
Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT	
ARDS/24-25/DW-03 Dt. 20/11/2024		TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD	
P.O. NO. & Date		6000036592 & Date : 29.01.2024	
Season		POST MONSOON	
Location of Sample		NEAR K. D COLONY (BUFFER ZONE)	
Sample Description		GROUND WATER	
Analysis Started on : 12/11/2024			
Date of Sample Collection		11/11/2024	Analysis completed on 16/11/2024
Test Procedure		IS:3025	

Sl. No.	Parameters	Value	IS: 10500: 2012	
			Accepted Limit	Permissible Limit
1.	Colour Hazen units	1	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	Agreeable	Agreeable
4.	Turbidity NTU Max	1	1	5
5.	Total Dissolved Solids mg/l, Max	670	500	2000
6.	pH Value	7.4	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l, Max	424	200	600
8.	Calcium (as Ca) mg/l, Max	101	75	200
9.	Magnesium (as Mg) mg/l, Max	50	30	100
10.	Copper (as Cu) mg/l, Max	0.01	0.05	1.5
11.	Iron (as Fe) mg/l Max	0.04	1.0	NR
12.	Manganese (as Mn) mg/l, Max	NT	0.1	0.3
13.	Chlorides (as Cl) mg/l, Max	25.1	250	1000
14.	Sulphate (as SO ₄) mg/l Max	45	200	400
15.	Nitrate mg/l, (as NO ₃)	4.7	45	NR
16.	Fluoride (as F) mg/l	0.2	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, Max	NT	0.001	0.002
18.	Mercury (as Hg) mg/l, Max	NT	0.001	NR
19.	Cadmium (as Cd) mg/l, Max	NT	0.01	NR
20.	Selenium (as Se) mg/l, Max	NT	0.01	NR
21.	Arsenic (as As) mg/l, Max	NT	0.01	0.05
22.	Cyanide (as Cn) mg/l, Max	NT	0.05	NR
23.	Lead (As Pb) mg/l Max	NT	0.05	NR
24.	Zinc (as Zn) mg/l Max	2.2	5.0	15
25.	Anionic detergents (as MBAS), mg/l, Max	NT	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.02	0.05	NR
27.	Mineral Oil mg/l, Max	NT	0.01	NR
28.	Residual, free chlorine mg/l, Min	NT	0.2	1.0

Remarks: All the parameters of samples tested are within the permissible limit of Drinking Water Standard
IS - 10500 : 2012

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Plot No. - I-B-17 (P)
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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/24-25/DW-04 Dt. 20/11/2024	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Season	POST MONSOON		
Location of Sample	TASRA BASTI (CORE ZONE)		
Sample Description	GROUND WATER		
Date of Sample Collection		Analysis Started on :	12/11/2024
Test Procedure		Analysis completed on	16/11/2024
		IS:3025	

TEST RESULT

Sl. No.	Parameters	Value	IS: 10500: 2012	
			Accepted Limit	Permissible Limit
1.	Colour Hazen units	1	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	Agreeable	Agreeable
4.	Turbidity NTU Max	5	1	5
5.	Total Dissolved Solids mg/l, Max	695.5	500	2000
6.	pH Value	7.2	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l, Max	487.2	200	600
8.	Calcium (as Ca) mg/l, Max	160	75	200
9.	Magnesium (as Mg) mg/l, Max	20.8	30	100
10.	Copper (as Cu) mg/l, Max	0.01	0.05	1.5
11.	Iron (as Fe) mg/l Max	0.07	1.0	NR
12.	Manganese (as Mn) mg/l, Max	NT	0.1	0.3
13.	Chlorides (as Cl) mg/l, Max	69.8	250	1000
14.	Sulphate (as SO ₄) mg/l Max	85	200	400
15.	Nitrate mg/l, (as NO ₃)	5.0	45	NR
16.	Fluoride (as F) mg/l	0.2	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, Max	NT	0.001	0.002
18.	Mercury (as Hg) mg/l, Max	NT	0.001	NR
19.	Cadmium (as Cd) mg/l, Max	NT	0.01	NR
20.	Selenium (as Se) mg/l, Max	NT	0.01	NR
21.	Arsenic (as As) mg/l, Max	NT	0.01	0.05
22.	Cyanide (as Cn) mg/l, Max	NT	0.05	NR
23.	Lead (As Pb) mg/l Max	NT	0.05	NR
24.	Zinc (as Zn) mg/l Max	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l, Max	NT	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.03	0.05	NR
27.	Mineral Oil mg/l, Max	NT	0.01	NR
28.	Residual, free chlorine mg/l, Min	NT	0.2	1.0

Remarks: All the parameters of samples tested are within the permissible limit of Drinking Water Standard
IS - 10500 : 2012 NT- NOT TRACEABLE

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2024

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/24-25/DW-05 Dt. 20/11/2024	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Season	POST MONSOON		
Location of Sample	KANDRA BASTI (CORE ZONE)		
Sample Description	GROUND WATER		
Date of Sample Collection		Analysis Started on : 12/11/2024	
Test Procedure		Analysis completed on	16/11/2024
		IS:3025	

TEST RESULT

Sl. No.	Parameters	Value	IS: 10500: 2012	
			Accepted Limit	Permissible Limit
1.	Colour Hazen units	1	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Taste	Agreeable	Agreeable	Agreeable
4.	Turbidity NTU Max	3	1	5
5.	Total Dissolved Solids mg/l, Max	752	500	2000
6.	pH Value	7.4	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l, Max	460	200	600
8.	Calcium (as Ca) mg/l, Max	136.2	75	200
9.	Magnesium (as Mg) mg/l, Max	26	30	100
10.	Copper (as Cu) mg/l, Max	0.01	0.05	1.5
11.	Iron (as Fe) mg/l Max	0.08	1.0	NR
12.	Manganese (as Mn) mg/l, Max	NT	0.1	0.3
13.	Chlorides (as Cl) mg/l, Max	200	250	1000
14.	Sulphate (as SO ₄) mg/l Max	50.0	200	400
15.	Nitrate mg/l, (as NO ₃)	4.8	45	NR
16.	Fluoride (as F) mg/l	0.04	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l, Max	NT	0.001	0.002
18.	Mercury (as Hg) mg/l, Max	NT	0.001	NR
19.	Cadmium (as Cd) mg/l, Max	NT	0.01	NR
20.	Selenium (as Se) mg/l, Max	NT	0.01	NR
21.	Arsenic (as As) mg/l, Max	NT	0.01	0.05
22.	Cyanide (as Cn) mg/l, Max	NT	0.05	NR
23.	Lead (As Pb) mg/l Max	NT	0.05	NR
24.	Zinc (as Zn) mg/l Max	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l, Max	NT	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.02	0.05	NR
27.	Mineral Oil mg/l, Max	NT	0.01	NR
28.	Residual, free chlorine mg/l, Min	NT	0.2	1.0

Remarks: All the parameters of samples tested are within the permissible limit of Drinking Water Standard
IS - 10500 : 2012 NT- NOT TRACEABLE

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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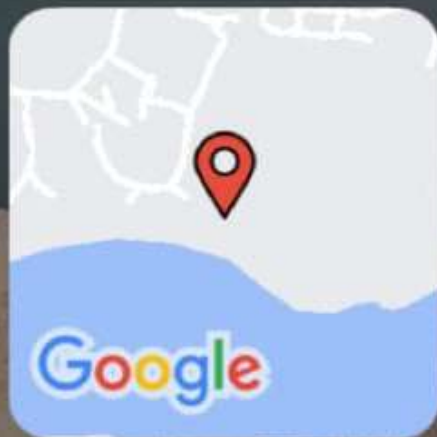
MF2H+HHM, Dhanbad - Sindri Rd, Rohraband, Jharkhand 828107,

07 December 2024 12:00:41

Lat: 23.650360, Long: 86.478836

Source of water for project and ground water recharge for project

ANNEXURE-VI



JFVM+G4, Rohraband, Jharkhand 828

07 December 2024 12:16:24

Lat: 23.642807, Long: 86.483368

S/n	Name	Designation	Shoe	Helmet	Jacket	FAK	Handgloves	Goggles	Date	Signature
37	SUKHDEV SINGH		✓	✓	✓				12.11.24	Singh
38	RAMU KUMAR	VOLVO DRIVER	✓	✓	✓				12.11.24	Ramu Kumar
39	AMIT KUMAR MANDAL	DOZER OPERATOR	✓	✓	✓				12.11.24	Amit Mandal
40	MD. IMTYAZ ANSARI		✓	✓	✓				12.11.24	Satnam
41	MRITYUNJAY KR. JHA		✓	✓	✓				12.11.24	Motijay Kr. Jha
42	RAJU KUMAR DAS	GRADER OPERATOR	✓	✓	✓				12.11.24	Raju das
43	MAHENDRA PRASAD	GRADER OPERATOR	✓	✓	✓				12.11.24	Prasad
44	RAJENDRA GANJHU	LOADER OPERATOR	✓	✓	✓				12.11.24	Rajendra Ganju
45	PRAKASH OJHA		✓	✓	✓				12.11.24	Prakash oja
46	ANIL KUMAR RAVIDAS	PC OPERATOR	✓	✓	✓				12.11.24	Anil Kumar Das
47	KEDAR KUMAR SHARMA		✓	✓	✓				12.11.24	Kedar
48	DURGA PRASAD	PC OPERATOR	✓	✓	✓				12.11.24	Gur Prasad
49	BAJESH KR. MALAKAR		✓	✓	✓				12.11.24	Bajesh Malakar
50	SANJIT KUMHAR	VOLVO DRIVER	✓	✓	✓				12.11.24	Sanjit Kumar
51	VIJAY KUMAR	VOLVO DRIVER	✓	✓	✓				12.11.24	Vijay
52	SUBODH SINGH	VOLVO DRIVER	✓	✓	✓				12.11.24	Subodh
53	ASHOK MANDAL		✓	✓	✓				12.11.24	Ashok Mandal
54	UTTAM KUMAR MANDAL		✓	✓	✓				12.11.24	Uttam

S/N	Name	Designation	Shoe	Helmel	Jacket	FAX	Gloves	Goggles	Date	Signature
55	RAJENDRA KUMAR MAHATO		✓	✓	✓				12.11.24	राजेंद्र कुं. महतो
56	BHARAT MAHATO		✓	✓	✓				12.11.24	भारत महतो
5A	MANTU KUMAR MAHATO	VOLVO DRIVER	✓	✓	✓				12.11.24	मन्तु कुं. महतो
58	AJAY SINGH	VOLVO DRIVER	✓	✓	✓				12.11.24	अजय सिंह
59	MIHIR MANDAL		✓	✓	✓				12.11.24	मिहिर मण्डल
60	MOHEEMANSARI	DOZER OPERATOR	✓	✓	✓				12.11.24	मोहेम मण्डल
61	BABLU MAHATO	PC OPERATOR	✓	✓	✓				12.11.24	बिर्जु सिंह
62	BIRJU SINGH		✓	✓	✓				12.11.24	बिर्जु सिंह
63	BIRENDRA SINGH	VOLVO DRIVER	✓	✓	✓				12.11.24	बिर्जु सिंह
64	KANHAIYA DUBEY	VOLVO DRIVER	✓	✓	✓				12.11.24	अरुण दुबे
65	MD AAREEF		✓	✓	✓				12.11.24	अरुण दुबे

S/N	Name	Designation	Shoe	Helmet	Backel	FAK	Hand gloves	Goggles	Date	Signature
73	SAMEER KUMAR MANDAL		✓	✓	✓				12.11.24	Sameer K. Mandal
74	UJJAY KUMAR MAHATO		✓	✓	✓				12.11.24	Ujjay Singh
75	PANCHAM KUMAR SINGH		✓	✓	✓				12.11.24	Pancham Singh
76	SIKANDAR SINGH		✓	✓	✓				12.11.24	Sikandar Singh
77	BIJAY GORAI		✓	✓	✓				12.11.24	Bijay Gorai
78	PRADEEP KUMAR SINGH		✓	✓	✓				12.11.24	Pradeep Singh
79	SUMANT PRASAD SINGH		✓	✓	✓				12.11.24	Sumant Singh
80	BHOLA YADAV	DISELTANK DRIVER	✓	✓	✓				13.11.24	Bhola Yadav
81	KAILASH PANDIT	JCB OPERATOR	✓	✓	✓				13.11.24	Kailash Pandit
82	MARADANA MADHAVA NAJDU		✓	✓	✓				13.11.24	Maradana
83	MD SAHABUDDIN ANSARI	GRADER OPERATOR	✓	✓	✓				13.11.24	Sahabuddin
84	KAILASH SINGH		✓	✓	✓				13.11.24	Kailash
85	SAJJU KUMAR MANDAL		✓	✓	✓				13.11.24	Saju K. Mandal
86	MITAY DHIBAR		✓	✓	✓				13.11.24	Mitay Dhibar
87	KARAM CHAND MANDAL	DOZER OPERATOR	✓	✓	✓				27.11.24	Karam Ch. Mandal
88										
89										
90										

S.NO	NAME	DESIGNATION	SHOE	HELMET	RADIUM TALKER	FIRST AID KIT	DATE	SIGNATURE
01.	MD RAHUS KHAN	HYDRA OPERATOR	✓	✓	✓		24-09-23	MD RAHUS
02.	RAJU KUMAR	ELECTRICIAN	✓	✓	✓		27-09-23	KARJA KUMAR
03.	PUGAZHENDHI BOCHI	GENERAL MANAGER	✓	✓	✓		31-10-23	Pug
04.	RUDAL KUMAR	OVERMAN	✓	✓	✓	✓	04-11-23	Rudal Kumar
05	PULLE AJAY	ASSISTANT MANAGER	✓	✓	✓	✓	10-11-23	P. Pulle
06	KIRAN KUMAR JIPAKKALA	ASSISTANT MANAGER	✓	✓	✓	✓	10-11-23	P. K. Jipakkala
07	GANTY KUMAR PANNAPPA	MECHANICAL ENTH	✓	✓	✓	✓	12-11-23	G. Gant
08	BAJPAJI BAIARAM	WELDER	✓	✓	✓	✓	19-11-23	B. Bajpa
09	YERRA RAMU	EXCAVATOR MECHANIC	✓	✓	✓		21-11-23	Y. Ramu
10	VERMA PARASD	ELECTRICIAN	✓	✓	✓	✓	25-11-23	V. Paras
11.	RAMU KUMAR	D C ELECTRICIAN	✓	✓	✓		29-11-23	R. Ramu
12	ATUL ARYA	ASSISTANT MANAGER	✓	✓	✓	✓	29-11-23	A. Arya
13	RAJU KUMAR DAS	GRADER OPERATOR	✓	✓	✓		30-11-23	R. Das
14	RAJU SINGH	DEWATERING	✓	✓	✓		01-12-23	R. Singh
15	DENASHIS KUMAR MANDAL	DEWATERING	✓	✓	✓		01-12-23	D. K. Mandal
16	ASHOK MANDAL	DEWATERING	✓	✓	✓		01-12-23	A. Mandal
17	UTTAM KUMAR MANDAL	DEWATERING	✓	✓	✓		01-12-23	U. Mandal
18	SURJIT SHARMA	AVP-SMX	✓	✓	✓		08-12-23	S. Sharma

S.NO	NAME	DESIGNATION	SHOE	HELMET	RADIUM JACKET	FIRSTAID KIT	DATE	SIGNATURE
19	MAHENDRA PRASAD	GRADER OPERATOR	✓	✓	✓	✓	09-12-23	H E O S
20	SANDIP KUMAR	MINNING SIRDAR	✓	✓	✓	✓	11-12-23	Sandip
21	SUBODH SINGH	VOLVO DRIVER	✓	✓	✓	✓	12-12-23	Subodh
22	SURAJ SHARMA	VOLVO DRIVER	✓	✓	✓	✓	12-12-23	सुरज शर्मा
23	DISU SINGH	VOLVO DRIVER	✓	✓	✓	✓	12-12-23	Disu
24	RAJU BAURI	ROAD SPOTTER	✓	✓	✓	✓	12-12-23	राजु बाउरी
25	MANIK MONDAL	ROAD SPOTTER	✓	✓	✓	✓	14-12-23	manik mandal
26	MARADANA MADHAYA NAJDU	TYRE FITTER	✓	✓	✓	✓	15-12-23	M.M. NAIDU
27	JAGDISH SINGH	VOLVO DRIVER	✓	✓	✓	✓	17-12-23	Jagdish Singh
28	KARAM CHAND MANDAL	DOZER OPERATOR	✓	✓	✓	✓	19-12-23	Karam Chand
29	JAGANNATH DHIBAR	MECHANICAL HEAPER	✓	✓	✓	✓	21-12-23	Jibbar
30	AMIT SINGH	MECHANICAL HEAPER	✓	✓	✓	✓	23-12-23	Amit
31	SAJIV KUMAR MANDAL	DEWATERING	✓	✓	✓	✓	23-12-23	S.K. mandal
32	MITHULESH KUMAR SINGH	ASSISTANT MANAGER	✓	✓	✓	✓	26-12-23	M.K. Singh
33	ARJUN SINGH	ROCK BREAKER	✓	✓	✓	✓	28-12-23	Arjun
34	KODURU GOPJ	TRAINEE	✓	✓	✓	✓	01-01-24	K.G.P.
35	UTTAM KUMAR MAHATO	VOLVO DRIVER	✓	✓	✓	✓	05-01-24	Uttam
36	BHARAT MAHATO	VOLVO DRIVER	✓	✓	✓	✓	06-01-24	Bharat

Store In Charge
Nikun



S.NO	NAME	DESIGNATION	SHOE	HELMET	RADIUM JACKET	FIRST AID KIT	DATE	SIGNATURE
37	LAKHAN MANDAL	DUMP SPOTTER	✓	✓	✓		08-01-24	<i>[Signature]</i>
38	MANTU KUMAR MAHATO	VOLVO DRIVER	✓	✓	✓		09-01-24	<i>[Signature]</i>
39	BJMAL MANDAL	DUMP SPOTTER	✓	✓	✓		10-01-24	Bimal Mandal
40	MOHAN KUMAR SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	<i>[Signature]</i>
41	AMRIT KUMAR SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	<i>[Signature]</i>
42	BIKRAM SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	Bikram
43	DEEPU KUMAR SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	<i>[Signature]</i>
44	AJIT SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	Ajit Singh
45	ASHOK KUMAR SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	<i>[Signature]</i>
46	VICKY SINGH	BLASTING HELPER	✓	✓	✓		10-01-24	VIRKY SINGH
47	RAJENDRA KUMAR MAHATO	VOLVO DRIVER	✓	✓	✓		11-01-24	<i>[Signature]</i>
48	JAGADISH GOSWAMI	BLASTING HELPER	✓	✓	✓		13-01-24	<i>[Signature]</i>
49	ABAY SINGH	BLASTING HELPER	✓	✓	✓		13-01-24	<i>[Signature]</i>
50	DIGAMBAR SINGH	BLASTING HELPER	✓	✓	✓		13-01-24	Digambar
51	SUKHDEV SINGH	CAMPER DRIVER	✓	✓	✓		15-01-24	<i>[Signature]</i>
52	SHAIKH MAHAMOOD	LMV DRIVER	✓	✓	✓		15-01-24	<i>[Signature]</i>
53	BIJWASIT MANDAL	ELECTRICAL HELPER	✓	✓	✓		16-01-24	<i>[Signature]</i>
54	MIHIR MANDAL	DUMP SPOTTER	✓	✓	✓		17-01-24	<i>[Signature]</i>

store in charge
Nikhil



S.NO	NAME	DESIGNATION	SHOE	HELMET	RADIUM JACKET	FIRST AID - KIT	DATE	SIGNATURE
55	MOHEEMANSARI	DOZER OPERATOR	✓	✓	✓		17-01-24	Pr. Singh
56	BABLU MAHATO	PC OPERATOR	✓	✓	✓		17-01-24	B. Mahato
57	SHANKAR SINGH	ROCK BREAKER	✓	✓	✓		17-01-24	Singh Bijay Singh
58	BJRJU SINGH	VOLVO DRIVER	✓	✓	✓		17-01-24	
59	ANGAD MAHATO	VOLVO DRIVER	✓	✓	✓		17-01-24	ANGAD mahato
60	SHAILENDAR NAHURI	VOLVO DRIVER	✓	✓	✓		17-01-24	Shailendar
61	BIRENDRA SINGH	VOLVO DRIVER	✓	✓	✓		18-01-24	Birendra
62	GOPAL SINGH	DUMP SPOTTER	✓	✓	✓		18-01-24	Gopal Singh
63	PRADEEPKUMAR SINGH	ROAD SPOTTER	✓	✓	✓		19-01-24	Pradeep Singh
64	MD SAZZAD ANSARI	DC ELECTRICIAN	✓	✓	✓		25-01-24	md Ansari
65	PREM PRASAD	COMPACT ROLLER	✓	✓	✓		29-01-24	Prem Prasad
66	PRADEEP SINGH	BLASTING HELPER	✓	✓	✓		30-01-24	Pradeep
67	SUJIT SINGH	BLASTING HELPER	✓	✓	✓		30-01-24	Sujit Singh
68	SUBHASH MALLICK	BLASTING HELPER	✓	✓	✓		30-01-24	Subhash
69	BJRJU MANDAL	BLASTING HELPER	✓	✓	✓		30-01-24	BJRJU MANDAL
70	MD ARIFF	PC OPERATOR	✓	✓	✓		01-02-24	MD Arif
71	PRAKASH SINGH	ROCK BREAKER OPERATOR	✓	✓	✓		01-02-24	Praakash
72	ASHOK YADAV	PC OPERATOR	✓	✓	✓		01-02-24	Ashok Yadav

SNO	NAME	DESIGNATION	SHOE	HELMET	RADIUM JACKET	FIRST AID - KIT	DATE	SIGNATURE
73	NITAY DHIGAR	MECHANICAL HELPER	✓	✓	✓		02-02-24	Nitay
74	MAHESH PRASAD	PC OPERATOR	✓	✓	✓		05-02-24	M. Prasad
75	MD MAQSOOD ANSARI	MECHANICAL HELPER	✓	✓	✓		05-02-24	M. Ansari
76	MD YAJUDIN ANSARI	MECHANICAL HELPER	✓	✓	✓		05-02-24	Yajudin
77	SURAJ KUMAR	MECHANICAL HELPER	✓	✓	✓		05-02-24	S. Kumar
78	ARJUN SINGH	WATER TANKER DRIVER	✓	✓	✓		06-02-24	A. Singh
79	KEDAR KUMAR SHARMA	PC OPERATOR	✓	✓	✓		07-02-24	K. Sharma
80	SANTAN MANDAL	MECHANICAL HELPER	✓	✓	✓		09-02-24	S. Mandal
81	SANDEEP KUMAR PANDEY	PC OPERATOR	✓	✓	✓		09-02-24	S. Pandey
82	DURGA PRASAD	PC OPERATOR	✓	✓	✓		09-02-24	D. Prasad
83	GANESH KUMAR SINGH	MECHANICAL HELPER	✓	✓	✓		09-02-24	G. Singh
84	GOPI MUNDRA	ROAD SPOTTER	✓	✓	✓		09-02-24	Gopi Mundra
85	TRILOKI SINGH	MECHANICAL HELPER	✓	✓	✓		10-02-24	T. Singh
86	ANIL TELU	OVERMAN	✓	✓	✓	✓	10-02-24	A. Telu
87	SHAKHI SINGH	WATER TANKER DRIVER	✓	✓	✓		11-02-24	S. Singh
88	PIYUSH	ELECTRICIAN	✓	✓	✓		14-02-24	P. Singh
89	MANTU KUMAR	ELECTRICIAN	✓	✓	✓		14-02-24	M. Kumar
90	BICKY PASWAN	PC MECHANIC	✓	✓	✓		19-02-24	B. Paswan



S.NO	NAME	DESIGNATION	Safety goggles	Dust mask	Ear plug	Safety hand gloves	Date	Signature
01.	RAJU KUMAR	ELECTRICIAN		✓			27-09-2023	Rajul Kumar
02.	PULLE AJAY	JR ENGINEER		✓			10-11-2023	P. Ajay
03.	BAIPALLI BALARAM	WELDER		✓		✓	19-11-2023	B. Welsa
04	VERMA PARASAD	ELECTRICIAN		✓		✓	25-11-2023	Chai
05	RAMU KUMAR	ELECTRICIAN		✓		✓	29-11-2023	Rishi
06	MOHAN KUMAR SINGH	BLASTING HELPER		✓		✓	10-01-2024	Mohan
07	AMRIT KUMAR SINGH	BLASTING HELPER		✓		✓	10-01-2024	Amrit
08	BIKRAM SINGH	BLASTING HELPER		✓		✓	10-01-2024	Bikram
09	DEEPU KUMAR SINGH	BLASTING HELPER		✓		✓	10-01-2024	Deepu Kumar Singh
10	AJIT SINGH	BLASTING HELPER		✓		✓	10-01-2024	Ajit Singh
11	ASHOK KUMAR SINGH	BLASTING HELPER		✓		✓	10-01-2024	Ashok
12	NICKY SINGH	BLASTING HELPER		✓		✓	10-01-2024	Nicky Singh
13	JAGADISH GOSWAMI	BLASTING HELPER		✓		✓	13-01-2024	J. Goswami
14	AJAY SINGH	BLASTING HELPER		✓		✓	13-01-2024	Ajay
15	DIGAMBAR SINGH	BLASTING HELPER		✓		✓	13-01-2024	Digambar
16	BISHWAJIT MANDAL	ELECTRICAL HELPER		✓		✓	16-01-2024	Bishwajit
17	SHANKAR SINGH	ROCK BREAKER		✓	✓		17-01-2024	S. Singh
18	PRADEEP SINGH	BLASTING HELPER		✓		✓	30-01-2024	Pradeep



S.NO	NAME	DESIGNATION	Safety Goggle	DUST MASK	EAR PLUG	Safety Hand gloves	DATE	SIGNATURE
19	SUJIT SINGH	BLASTING HELPER		✓		✓	30-01-2024	Sujit Singh
20	SUBHASH MALLICK	BLASTING HELPER		✓		✓	30-01-2024	Subash
21	BIRJU MANDAL	BLASTING HELPER		✓		✓	30-01-2024	Birju Mand
22	PRAKASH SINGH	ROCK BREAKER OPERATOR		✓	✓	✓	01-02-2024	Prakash
23	PIYUSH	ELECTRICIAN		✓		✓	14-02-2024	Piyush
24	MANTU KUMAR	ELECTRICIAN		✓		✓	14-02-2024	Mantu Kumar
25	SANDEEP KUMAR SONI	OVERMAN		✓			21-02-2024	Sandeep
26	RAHUL KUMAR	OVERMAN	✓	✓			21-02-2024	Rahul Kumar
27	AKSHAY KUMAR	OVERMAN		✓			24-02-2024	Akshay
28	PRABODH KRISHNA	TRAINEE OVERMAN		✓			08-04-2024	P.B. Krishna
29	KUMAR VIVEK	OVERMAN	✓	✓			24-04-2024	Kumar Vivek

ANNEXURE-VIII



vivo X70 Pro+ | ZEISS
SHUBHAM ANAND



KTMPL, SAFETY-TALK

Shift - 'B'

Date 08/12/2024
Time - 01:50pm to 02:00pm

विषय :- Tak-S

- 1) ठहरी
- 2) देखी
- 3) खतरो की पहचानी
- 4) खतरो का निवारण करे
- 5) फिर काम चालु करें।

TBT Conducted by - SHUBHAM ANAND

Sr. Ex. Safety (Mines)

<u>Name</u>	<u>Designation</u>	<u>Signature</u>
Shubham Singh	Volvo	Shubham Singh
Birendra Singh	Volvo	Birendra Singh
ANHAHA DUBEY	VOLVO	Anha Dube
Biraj Singh	VOLVO	Biraj Singh
Bhaskar Mishra	VOLVO	Bhaskar Mishra
Ratul Kumar	GET	Ratul Kumar
Sobit Singh	VOLVO	Sobit Singh
Akash Toppo	GET	Akash Toppo
Sahadeu Mandal	Supervisor	Sahadeu Mandal
Brahm Krishna	Overman	Brahm Krishna

Various developmental activities on account of CSR have been carried out in consultation with the villagers of TASRA Project Affected Area Fy 2023-24.

Details of CSR activities taken up within Tasra Project area as below:

1. 50 no of girls and ladies of project area were imparted stitching and embroidery training .
2. Water is supplied for domestic use in and around Tasra mine area by water tanker @ 25KL/day.
3. Installed of 02 nos high yielding deep tube well pump, motor, for supply of drinking water to project affected people of Tasra.
4. Program of stitching and embroidery for villagers under CSR scheme is going on.
5. Blankets distribution under CSR scheme to the poor, disabled and old people of Project affected area of Tasra OCP was done..
6. Organized eye camp in coordination with Rotary club under CSR scheme at Tasra project area, Gaushala, Sindri and operated 37 persons at Shankar Netralaya Kolkata.
7. Repaired of 15 no of hand pumps and 03 no of submersible pumps to ensure provision of Drinking water in and around Tasra project affected villages. All the pumps have been made operational.
8. Distributed Study materials amongst the poor students through NGO at Prayas India Center at Motinager, Rorhbandh, and Sindri.
9. Free Medical-checkup on wheel under CSR scheme is being carried out at Tasra Project Area.
10. Repairing of Hand pumps and submersible pumps in all around village of Tasra , Rorhbandh & near Tasra OCP is being done.
11. Repairing of houses /building/other structures in the vicinity of near Tasra mine periphery area is being done.
12. Eye camp in coordination with Rotary club under CSR scheme at Tasra project area, Gaushala, Sindri is being done
13. Free Medical-checkup on wheel under CSR scheme is being done. Nos of beneficiaries:1960 per month.
14. Program of stitching and embroidery for villagers under CSR scheme is being done.
15. Competitive exam preparation coaching to nearby local youths beneficiaries of SAIL Collieries under CSR Provision is being done, Skill development training provided (Competitive coaching for bank, Rly & other service
16. Medical despenciry at New Motinagar Chasnalla, Nos of beneficiaries: 990 per month.
17. Details of activities , expenditure and beneficiaries is below in table:

Activites	Amount (in Rs)	No of beneficiaries
Competitive coaching	1017500	110
blanket distribution	151200	400
school bag	449254.4	872
Stemlab	1893540	Students of Chasnalla & Jitpur academy
financial assiatnce to academy	10000000	Students/staff of Chasnalla & Jitpur academy
Health onWheel	4872780	1960
Eye camp	360000	106
Motinagar	2118600	990
Taloring	2043000	128
Bamboo craft	735000	35-40
CRY	1040000	Students of Chasnalla & Jitpur academy
Skill Trg	3012000	60
ToTo	2000000 500000	50 women
Jute	500000	35-40
Mosquito	999064.8	Villagers of Tasra project area
Jal Minar -04 nos	1914132	Villagers of Tasra, Chasnalla & Jitpur area
Sports Event Sports Material	300000 391065.92	Students of Chasnalla & Jitpur academy etc
Golf cart for DFO Ranchi	1800000	4 nos of cart
Alimco	2957364.904	Distribution of assistive devices/ wheel chair
Dialysis centre & Jeevan Jyoti School	3195497.976	Set up of dialysis machines & school van for special children
Total	42250000	

CSR Activities taken up at Tasra Project Area by MDO of M/s SAIL

- a) Supply of Water through tanker (12000 litres) for domestic purpose in and around Project affected area started on 01.12.2024.
- b) Primary Health Centre established at Mine site on 21.02.2024 for extending free medical aid along with medicine to Project Affected People as well as employees of KTMPL (MDO). For emergency an ambulance (24x7) has been provided.
- C). Skill Development Centre for women empowerment inaugurated on July 2024, (Adarsh Mahila Swarojgar Kendra), Bokaro Csr Reg. No - CSR 00051304, (कौशल एवं उद्धमिता विकाश केंद्र : (Training Center Address: Ramakrishna Sewa Ashram near BIT Campus, Sindri, Dhanbad, Jharkhand:
Training Center Started on: 10th July 2024: : Hybrid training (safety gloves, jackets, ladies garments kids dress, utility items made of jute, bamboo, and water hyacinths). Presently training is being imparted to 69 candidates.
- c) In addition to the above various other infrastructural supports is being extended in the project affected area viz. street lighting , sports kits, repairing of wells, borewells etc .

COLLIERIES CSR BUDGET ALLOCATION 2024-25

(Rs/Lakhs)

SN	Plant/Unit	Project Category	Thrust Areas	Details of Core CSR Activities/Projects 2024-25	Allocation
					2024-25 Project - wise
1	Collieries	Core	Edu	Competitive exam preparation coaching : Centre at Chasnalla & Jitpur Academy	20
2	Collieries	Core	Edu	School bags and water bottles, etc. distribution to School children, underprivileged students	5
3	Collieries	Core	Health	Free Medical health camps with basic medicine assistance	85.15
4	Collieries	Core	Health	Free Medical Eye Camps	5
5	Collieries	Core	Skills Dev	Skill training- tailoring & other skill center at different location of Collieries	41
6	Collieries	Core	Skills Dev	Skill development -Bamboo craft /Handcraft, Lac Chudi making, Cow dung utilization, Soap Making , Jute & handcraft	40
7	Collieries	Core	Skills Dev	Skill development - Child Activity Development centre	15
8		Core	Skills Dev	ITI training to underprivileged students	4.5
9	Collieries	Core	Skills Dev	Skill training- Technical training with Skill center (electrician , fitter, FTOHA etc)	50
10		Core	WOMEN EMP	Provision of battery operated Auto	10
11	Collieries	Core	WOMEN EMP	Sanitary Napkin awareness / health hygiene awareness etc	5
12	Collieries	Core	SANITATION	Spraying of bleaching powder / mosquito control / larvacide treatment	10
13	Collieries	Core	DRINKING WATER	Provision of drinking water- Jal minar / Water transportation project etc	30
14	Collieries	Core	SPORTS	Provision of sports culture and facilitation of events (organization/participation)	7
15	Collieries	Core	SPORTS	Sports events -Archery, Football , volley ball & basket ball , school events	5
16	Collieries	Core	RURAL DEV	Renovation of community center & other civil jobs - nearby collieries , Maintaining of bath ghat, toilets, miscellaneous repairing job of nearby villagers of SAIL Collieries, Inputs for better farming practices	20
17	Collieries	Core	SOCIAL SEC	Provision of blanket for the destitutes/ underprivileged	7
18	Collieries	Core	SOCIAL SEC	Distribution of Artificial limbs and other assistive devices	20
19	Collieries	Core	ENV SUS	Provision of public waste bins/tree plantation/theme park /dust mitigation etc	5

SN	Plant/Unit	Project Category	Thrust Areas	Details of Committed CSR Activities/Projects 2024-25	Project - wise
1	Collieries	Committed	Edu	Financial assistance to Schools (committed- Jitpur Academy & Chasnalla Academy) (committed)	100.00
SN	Plant/Unit	Project Category	Thrust Areas	Details of New CSR Activities/Projects 2024-25	Project- wise
1	Collieries	New	Edu	Computer training	
2	Collieries	New	Health	Gift Milk to children	10
3	Collieries	New	Health	Providing financial assistance for Dialysis centre	5
4	Collieries	New	Skills Dev	Skill development -Bamboo craft /Handcraft, Lac Chudi making, Cow dung utilization, Soap Making , Jute & handcraft	
5	Collieries	New	Skills Dev	Skill development - Child Activity Development centre	3
6	Collieries	New	WOMEN EMP	Welfare for Acid Attack Survivors (Education empowerment - donation of computers, skill development , counseling, basic Medical treatment cost) through NGO	9
7	Collieries	New	WOMEN EMP	Sanitary Napkin awareness / health hygiene awareness etc	2
8	Collieries	New	SANITATION	Spraying of bleaching powder / mosquito control / larvacide treatment	1
9	Collieries	New	SPORTS	Provision of sports culture and facilitation of events (organization/participation)	
10	Collieries	New	RURAL DEV	Renovation of community center & other civil jobs - nearby collieries , Maintaining of bath ghat, toilets, miscellaneous repairing job of nearby villagers of SAIL Collieries, Inputs for better framing practises	
11	Collieries	New	SOCIAL SEC	Financial assistance for providing assistive aids and facilities, etc. for PwD visitors at District Court, Dhanbad	5
12	Collieries	New	SOCIAL SEC	Provision of furniture's, Physiotherapy center etc at institutions of Special disabled children (new)	5
13	Collieries	New	ENV SUS	Provision of public waste bins/tree plantation/theme park /dust mitigation etc	2

* Note : Projects are to be undertaken by self/through implementing agencies fulfilling provisions of Cos. Act, 2013 CSR and Rules and may continue as ongoing project.

Plant / Unit : CCSO, Dhanbad

CSR Activities done in 2022-23

SL. No.	Thrust Area	Activities	No. of Beneficiaries		
1	Education	Distribution of Copies & Pens / Pencils to students of Kartavya Center	350 students		
		100 numbers Bench & Desk provided to Middle School Washery Division, Saraidhela, Dhanbad	All Students of School		
2	Health	Eye Camp & Cataract Operation with the help of Shankar Nethralay, Kolkata	Eye Check up : 489	Spectacles given to : 322	Cataract operation done to: 25 patients
3	Women empowerment	Training In Sewing & Computer	20 Women	Placement given to all 20 women in Hoisery Industry	
4	Drinking Water	Water Coller provided In Middle School Washery Division, CCWO	All Students of School		
5	Art & Culture	Science Exhibition and Cultural Program for poor students with help of KARTAVYA	700		

CSR Activities done in 2023-24

1	Education	Distribution of Copies & Pens / Pencils, School Bags, White Board to students of Kartavya Center & PATHSHALA	800		
		Mini Science Lab in Middle School Washery Division, Saraidhela, Dhanbad	250		
		Heightening of Boundry wall of school	All Students of School		
2	Health	Eye Camp & Cataract Operation with the help of Shankar Nethralay, Kolkata	Eye Check up : 950	Spectacles given to : 799	Cataract operation done to: 42 patients
		Free Check up Health Camp and medicine distributions	1883		
3	Women Empowerment	Training in Sewing & Computer	20 Women	Placement given to all 20 women in Hoisery Industry	
4	Sainitation	Toilet Construction in middle school for Girls & Boys Students Seperately	All Students		
5	Art & Cultur	Science Exhibition and Cultural Program for poor students with help of KARTAVYA	800		
6	Sports	Football Tournament	Football teams of peripheral vilaages and young boys		
7	Envirnment Sustainability	Plantation	150 Plants		
8	Health Neutitions	Distibution of Health Neutritions items to Old age Home (Lalbani Ashram, Leprosy Centre & Mission of Chairty)	250		
9	Support to PWD	Distribution of Tricycles & Wheel Chairs	Tricycles : 15 persons Wheel Chairs : 15 numbers given to Dhanbad Plateform, Jeevan Jyoti School & Nirmala Leprosy Center		



Plant / Unit : CCSO, Dhanbad

Proposed CSR Activities for 2024-25

SL.No.	CSR Thrust Areas	Activities
1	Education	Distribution of Stationaries items to students of Kartavya centre
		To provide School Van to Pathshala
		Opting Three numbers of Specially abled child for education
2	Health Care	Eye camp & Cataract Operation
		Camp for Artificial limb replacement
3	Women Empowerment	Sewing training & Computer literacy
4	Sports	Sports activity for special children
		Women Cricket Tournament
		Open Gym for society
5	Art & Culture	Science exhibition & cultural Programme in association with Kartavya
6	Social Security	Basic essential support to old age home
7	Skill Generation Programme	Skill development programme in collaboration with IIT(ISM), Dhanbad
8	Sanitation	Sanitation Napkins Pad & vending Machine for school girls students and other related jobs of Sanitation

Inauguration of Skill & Entrepreneurship Development Center



Exposure Visit of interested Trainees to Bokaro Adarsh Mahila Swarojgar Swamity



Stitching Skill Development for Women



Cutting Training for women



Hand gloves and jute bag prepared by stitching batch



Preparing craft with water hyacinth

Bamboo Craft Training for women

Product range till date



Flower



Light hanging



Flower



Pen



Coaster



Different types of



Exhibition of Handicrafts by Trainees





Static Health Care Center



Ambulance Service



Village Health Camp with free check up and Medicines



Community Toilet Construction



Bathing Space for Women



Hand Pump repairing



Supply of drinking water through Tanker



Well repairing



Pond Reclamation



Supporting Rural Sports



Street Light

ANNEXURE-X

झारखण्ड सरकार

उपायुक्त-सह-जिला दण्डाधिकारी का कार्यालय धनबाद।

(जिला भू-अर्जन शाखा)

Email-dlao.dhanbad@gmail.com, Mob. 9934790514

आम सूचना

एतद् द्वारा सूचित किया जाता है कि भूमि अर्जन पुनर्वासन और पुनर्व्यवस्थापन में उचित प्रतिकर और पारदर्शिता का अधिकार अधिनियम, 2013 की धारा-4 के प्रावधानों के तहत स्टील अथॉरिटी ऑफ इंडिया लिमिटेड के टासरा ओपन कॉस्ट परियोजना हेतु धनबाद जिला अन्तर्गत झरिया अंचल के मौजा रोहड़ाबांध-169 एवं मौजा टासरा-168 (वार्ड संख्या-53) में अर्जन हेतु प्रस्तावित भूमि के लिए सामाजिक समाघात निर्धारण अध्ययन हेतु अधिसूचना संख्या 1537/भू0अ0, धनबाद दिनांक 23/11/2023 के द्वारा मेसर्स Social Action for Rural Development (SARDA) को एस0आई0ए0 दल नियुक्त किया गया है। एस0आई0ए0 दल द्वारा उपरोक्त अधिसूचना के आलोक में सर्वे उपरांत ड्राफ्ट एस0आई0ए0 रिपोर्ट समर्पित किया गया है।

अतः ड्राफ्ट एस0आई0ए0 रिपोर्ट के प्रमुख निष्कर्षों पर विमर्श करने हेतु अधिनियम की धारा-5 एवं नियमावली के नियम-11 के तहत दिनांक 14/11/24 को 11 बजे 11.11.24 में आर्य समाज मैदान रोहड़ाबांध (वार्ड संख्या-53) में लोक सुनवाई निर्धारित की जाती है।

प्रभावित होने वाले परिवारों से अनुरोध है कि उक्त लोक सुनवाई में उपस्थित होकर सामाजिक समाघात निर्धारण के संबंध में अपने विचार रखने का कष्ट करेंगे।

उपायुक्त, धनबाद

ज्ञांक- 53 / भू-अर्जन, धनबाद / दिनांक 09/01/2024

प्रतिलिपि-

1. अनुमण्डल पदाधिकारी, धनबाद / अंचल अधिकारी, झरिया को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित। अनुरोध है कि उपरोक्त आम सूचना सर्वसाधारण की जानकारी हेतु कार्यालय के नोटिस बोर्ड पर चस्पा किया जाय।
2. अपर समाहर्ता (विधि-व्यवस्था) सह-नोडल अधिकारी, एन0आई0सी0, धनबाद को सूचनार्थ प्रेषित। अनुरोध है कि उपरोक्त आम सूचना सर्वसाधारण की जानकारी हेतु nic धनबाद की website पर upload किया जाय।
3. जिला जन सम्पर्क पदाधिकारी धनबाद, को सूचनार्थ प्रेषित। अनुरोध है कि उपरोक्त आमसूचना का प्रकाशन दो स्थानीय दैनिक समाचार पत्रों में प्रकाशित किया जाय।
4. मेसर्स Social Action for Rural Development (SARDA) Chhotaki Murram Ramgarh Cantt. Ramgarh-82922 को निदेश दिया जाता है उपरोक्त निर्धारित तिथि एवं स्थान पर उपस्थित होना सुनिश्चित करें।

उपायुक्त, धनबाद

सामाजिक प्रभाव आंकलन ड्राफ्ट रिपोर्ट

जिला भू-अर्जन अधिकारी, धनबाद, झारखण्ड
टासरा ओपन कास्ट परियोजना हेतु मौजा रोहड़ाबाँध एवं मौजा टासरा
में भू-अर्जन परियोजना
झरिया, धनबाद

प्रस्तुत
उपायुक्त
धनबाद, झारखण्ड



दिसम्बर, 2023



सोशल एक्शन फॉर रूरल डेवलपमेंट (सारदा)
सारदा भवन, छोटकी मुराँम, रामगढ़ कैंट, रामगढ़ – 829122 (झारखण्ड)

Summary of Draft SIA Report

टासरा ओपन कास्ट परियोजना हेतु मौजा रोहडाबाँध एवं मौजा टासरा में भू-अर्जन ड्राफ्ट एस० आइ० ए० रिपोर्ट का कार्यकारी सारांश

Approved by

Dr. N.P. Singh

Signed by

Position Held

Managing Director

Date

This SIA report has been undertaken in compliance with the **Rule 10 & 11 of Chapter III** of approved GUIDELINES of **Jharkhand Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Rules, 2015** issued by Department of Revenue and Land Reforms (Government of Jharkhand), vide letter No-10A/Bhu.A.Ni./Niyamawali-21/2015/131/Ni.Ra. dated 30.03.2015. Information and content provided in the report is factually correct for the purpose and objective for such study undertaken.

1. कार्यकारी सारांश

धनबाद झारखंड राज्य में स्थित 24 जिलों में से एक है। धनबाद जिले के अंतर्गत आने वाले कुल 8 ब्लॉक हैं और इस क्षेत्र में कुल 1159 गांव और 44 शहर हैं। हमारा अध्यन क्षेत्र धनबाद जिले के झरिया ब्लॉक के 2 मौजा रोहडाबाँध और टासरा है। झरिया एक सामुदायिक विकास खंड था जिसने भारत के झारखंड राज्य के धनबाद जिले में एक प्रशासनिक प्रभाग का गठन किया था। झरिया (सामुदायिक विकास खंड) को धनबाद नगर निगम में मिला दिया गया है। झरिया 23°44'45"N 86°24'44"E पर स्थित है। झरिया सीडी ब्लॉक उत्तर में धनबाद सीडी ब्लॉक, पूर्व में बलियापुर सीडी ब्लॉक, दक्षिण में पश्चिम बंगाल के पुरुलिया जिले में रघुनाथपुर II सीडी ब्लॉक और पश्चिम में बोकारो जिले में चंदनकियारी सीडी ब्लॉक से घिरा है। झरिया सीडी ब्लॉक का क्षेत्रफल 9,077.15 हेक्टेयर है। इसमें 63 ग्राम पंचायतें और 58 गाँव हैं।

हमारा मुख्य अध्यन क्षेत्र टासरा ओपन कास्ट परियोजना हेतु धनबाद जिले के झरिया ब्लॉक के मौजा – रोहडाबाँध एवं मौजा टासरा में प्रथम चरण में प्रस्तावित भूमि भू अर्जन परियोजना का सामाजिक मूल्यांकन है।

प्राथमिक हितधारक रैयत होंगे जिनके भूमि का अधिग्रहण करना है। प्रस्तावित अधिग्रहण में कुछ आवासीय या वाणिज्यिक गतिविधि पाई गयीं। परियोजना में अनुमानतः 1130 आवासीय घरों को नुक्सान होगा जिससे 3208 PAF परिवार विस्थापित होंगे, जिससे झारखंड-आरएफसीटीएलआरआर नियम, 2015 के प्रावधानों के तहत पुनर्वास एवं पुनर्वास्थापन किया जाना आवश्यक है।

प्रभावित रैयतों एवं स्थानीय लोगों से सामाजिक मूल्यांकन के दौरान किये गए बात चित के आधार पर यह निष्कर्ष निकलता है कि भूमि अधिग्रहण से भूमि एवं उस पर अवस्थित परिसम्पत्तियों का भू-अर्जन कानून के तहत सही मुआवजा दिये जाने पर इस परियोजना से होने वाले नुकसान की तुलना में मिलने वाले लाभ ज्यादा होंगे। यहाँ यह भी उल्लेखनीय है कि अर्जन हेतु प्रस्तावित भूमि कोयला धारक क्षेत्र की भूमि है जिस पर कोई खेती बाड़ी इत्यादि कार्य नहीं करता है और अधिकांश भूमि बंजर पड़ा हुआ है जिसपर कोई भी परिवार आजीविका के लिए निर्भर नहीं है बल्कि इसके विपरीत परियोजना के विस्तार से व्यपक पैमाने पर रोजगार का सृजन होगा और स्थानीय लोगों के जीवन स्तर में सुधार होगा।

SIA रिपोर्ट की प्रक्रिया में रैयत के अलावा ग्रामीणों ने भागीदारी निभाई एवं जैसा कि रैयत (भूमि स्वामी) सहित ग्रामीणों के साथ चर्चा की गई है, वे परियोजना के समर्थन में हैं और परियोजना के प्रस्तावित परिणाम से खुश हैं।

झारखंड-आरएफसीटीएलआरआर नियम, 2015 के अनुसार मुआवजा एवं पुनर्वास की उचित व्यवस्था किये जाने पर प्रभावित रैयत के द्वारा इस परियोजना का समर्थन किया गया। सामाजिक मूल्यांकन के लिए विशेष समूह बैठक में उठाए गए मुख्य मुद्दों में रोजगार की समस्या का समाधान, R&R कॉलोनी में समुचित घर एवं जन सुविधाओं का दिया जाना, विगत कई वर्षों से भूमि अधिग्रहण की अनिश्चितता को दूर करते हुए जल्द से जल्द सम्पूर्ण मौजा के भूमि का अधिग्रहण कर समुचित मुआवजा दिया जाये, हरेक परिवार के सभी बेरोजगार युवकों को नौकरी दिया जाये, जब

तक विस्थापन नहीं होता है तब तक प्रभावित क्षेत्र में पेय-जल, चिकित्सा, स्वस्थ एवं रोजगार इत्यादि की समुचित व्यवस्था की जाये शामिल है जिनपर प्रशासन के द्वारा जन सुनवाई में विचार किये जाने एवं भू-अर्जन कानून के तहत सही मुआवजा की मांग पूर्ति होने पर रैय्यत इस परियोजना हेतु अपनी भूमि देने को तैयार हैं। ग्रामीणों के ऊपर इस परियोजना का न्यूनतम नकारात्मक प्रभाव को देखते हुए तथा प्रत्याशित दीर्घकालीन सामाजिक एवं आर्थिक लाभ तथा रैय्यत के साथ बातचीत के आधार पर इस प्रस्तावित परियोजना हेतु भूअर्जन की सिफारिश की जाती है।

2. विस्तृत परियोजना विवरण

2.1 परियोजना पृष्ठभूमि

टासरा परियोजना स्टील अथॉरिटी ऑफ़ इंडिया लिमिटेड (SAIL) की महत्वकांक्षी परियोजना है जिसकी कोयला उत्पादन क्षमता 4 मिलियन टन प्रति वर्ष है तथा परियोजना की कुल अवधि 28 वर्ष है। इस परियोजना में कोयला उत्खनन का कार्य खुली खदान विधि से किया जायेगा जिसमें कुल 7 मौजा की भूमि प्रभावित होगी तथा प्रथम चरण में दो मौजा रोहड़ाबाँध एवं टासरा की रैय्यती भूमि का अर्जन किया जाना प्रस्तावित है। यह परियोजना पूर्व में भारत कोकिंग कोल् लिमिटेड के स्वामित्व में थी जिसका हस्तांतरण कोयला मंत्रालय भारत सरकार के आदेशानुसार SAIL को किया गया है जिससे उत्पादित कोयले का उपयोग उसके स्टील प्लांट में किया जायेगा जिससे कोकिंग कोल के विदेशों से आयात पर निर्भरता को कम करने में मदद मिलेगी और देश के विदेशी मुद्रा भंडार में वृद्धि होगी। कोयला उत्पादन से राज्य सरकार को प्रति वर्ष लगभग 240 करोड़ रुपये के राजस्व की प्राप्ति होगी और व्यापक पैमाने पर स्थानीय लोगों को रोजगार मिलेगा एवं भू-अर्जन से लगभग 500 करोड़ रुपये मुआवजा राशि के रूप में भू-स्वमियों को प्राप्त होगी जिससे स्थानीय आर्थिक गतिविधियों में काफी विकास होगा। प्रस्तावित भू अर्जन क्षेत्र में पूर्व में भी विभिन्न लोक उपक्रमों जैसे BCCL, FCIL, DVC, SAIL इत्यादि के द्वारा पूर्व में भूमि अर्जन किया गया है जिसका उपयोग परियोजना के विकास में किया जायेगा। परियोजना का संचालन MDO के माध्यम से किया जायेगा।

2.2 परियोजना और सार्वजनिक उद्देश्य के लिए तर्क

टासरा परियोजना स्टील अथॉरिटी ऑफ़ इंडिया लिमिटेड (SAIL) जो की भारत सरकार का एक लोक उपक्रम है की महत्वाकांक्षी परियोजना है जिसके विस्तारीकरण के लिए भू-अर्जन किया जाना नितांत आवश्यक है। प्रस्तावित भू-अर्जन कोयला धारक क्षेत्र की भूमि पर किया जा रहा है जहाँ से प्राकृतिक संसाधन कोकिंग कोल् को निकाला जाना है जो कि राष्ट्र हित में आवश्यक है।

2.3 परियोजना विवरण और वैकल्पिक विश्लेषण

प्रस्तावित परियोजना वर्तमान में दो मौजा की भूमि अर्जन से संबंधित है जो की धनबाद नगर निगम के वार्ड संख्या 53 में स्थित है मौजा रोहड़ाबाँध में कैडेस्ट्रल सर्वे (C.S.) के अनुसार बने खतियान प्रचलन में है जबकि मौजा टासरा में रिविजनल सर्वे (R.S.) के अनुसार तैयार खतियान प्रचलन में है। मौजा रोहड़ाबाँध के पार्ट एरिया जो की खनन पट्टा

क्षेत्र में स्थित है में 509 प्लॉट की कुल रकबा 113.963 एकड़ रैयती भूमि का अर्जन किया जाना प्रस्तावित है जबकि टासरा मौजा के सम्पूर्ण भूमि का अर्जन किया जाना प्रस्तावित है जिसमें C.S. खतियान के अनुसार 493 प्लॉट जिसका कुल रकबा 88.764 एकड़ है जबकि R.S. खतियान के अनुसार कुल 525 प्लॉट की कुल रकबा 118.52 एकड़ भूमि रैयती है जिसका अर्जन किया जाना है (रैयतों से बात-चित एवं उनके द्वारा प्रस्तुत राजस्व अभिलेखों के विश्लेषण में पाया गया की R.S. खतियान एवं C.S. खतियान में भू स्वामित्व संबंधी बहुत सारे विवाद है जिसमें से कुछ मामले न्यायालय में विचाराधीन है)

प्रस्तावित भू-अर्जन के लिए "सोशल इंपैक्ट आकलन (एस.आई.ए)" को मंजूरी दे दी थी, जिसमें प्रमुख रूप से इस क्षेत्र में पीएफ़ का पहचान और गिनती कर सामाजिक समाघात निर्धारण करना है। झारखण्ड भू अर्जन नियम, 2015 के दिशानिर्देश के तहत एस.आई.ए. की पूरी गतिविधि की गयी है।

2.4 लागू कानूनों और नीतियां

इस देश के मौजूदा कानूनों और विनियमों के बारे में बताया गया है, जो होने वाले प्रस्तावित अधिग्रहण के लिए लागू होते हैं। यह उल्लेख करना अनावश्यक है कि परियोजनाओं को कार्यान्वित करने में कानूनी और प्रक्रियाओं को समझने के लिए अधिनियमों और नीतियों का विश्लेषण करना और उसमें मौजूद अंतराल की पहचान करना अति महत्वपूर्ण है। प्रस्तावित अधिग्रहण के लिए भूमि अधिग्रहण, पुनर्वास और पुनर्वास पर लागू कानून, जैसा ऊपर भी उल्लिखित है, ये हैं:

- भूमि अर्जन, पुनर्वासन और पुनर्व्यवस्थापन में उचित प्रतिकर और पारदर्शिता का अधिकार अधिनियम- 2013
- झारखण्ड भूमि अर्जन, पुनर्वासन और पुनर्व्यवस्थापन में उचित प्रतिकर और पारदर्शिता का अधिकार नियम, 2015

2.5 अध्ययन क्षेत्र :

धनबाद झारखंड राज्य में स्थित 24 जिलों में से एक है। धनबाद जिले के अंतर्गत आने वाले कुल 8 ब्लॉक हैं और इस क्षेत्र में कुल 1159 गांव और 44 शहर हैं। हमारा अध्ययन क्षेत्र धनबाद जिले के झरिया ब्लॉक के 2 मौजा रोहडाबाँध और टासरा है। झरिया एक सामुदायिक विकास खंड था जिसने भारत के झारखंड राज्य के धनबाद जिले में एक प्रशासनिक प्रभाग का गठन किया था। झरिया (सामुदायिक विकास खंड) को धनबाद नगर निगम में मिला दिया गया है। झरिया 23°44'45"N 86°24'44"E पर स्थित है। झरिया सीडी ब्लॉक उत्तर में धनबाद सीडी ब्लॉक, पूर्व में बलियापुर सीडी ब्लॉक, दक्षिण में पश्चिम बंगाल के पुरुलिया जिले में रघुनाथपुर II सीडी ब्लॉक और पश्चिम में बोकारो जिले में चंदनकियारी सीडी ब्लॉक से घिरा है। झरिया सीडी ब्लॉक का क्षेत्रफल 9,077.15 हेक्टेयर है। इसमें 63 ग्राम पंचायतें और 58 गाँव हैं।

टासरा ओपन कास्ट परियोजना हेतु मौजा रोहड़ाबाँध एवं मौजा टासरा में भू-अर्जन ड्राफ्ट एस० आइ० ए० रिपोर्ट

हमारा मुख्य अध्ययन क्षेत्र टासरा ओपन कास्ट परियोजना हेतु धनबाद जिले के झरिया ब्लॉक के प्रस्तावित भू अर्जन मौजा रोहड़ाबाँध के पार्ट एरिया जो की खनन पट्टा क्षेत्र में स्थित है में 509 प्लॉट की कुल रकबा 113.963 एकड़ रैयती भूमि जबकि टासरा मौजा के सम्पूर्ण भूमि का अर्जन किया जाना प्रस्तावित है जिसमें C.S. खतियान के अनुसार 493 प्लॉट जिसका कुल रकबा 88.764 एकड़ है जबकि R.S. खतियान के अनुसार कुल 525 प्लॉट की कुल रकबा 118.52 एकड़ भूमि रैयती है जिसका अर्जन किया जाना है का सामाजिक मूल्यांकन है।

क्रमांक	ब्लाक का नाम	गांवों का नाम	वार्ड संख्या	रैयत एवं ग्रामीण के साथ परामर्श की तिथि
1	झरिया	रोहड़ाबाँध	53	दिनांक 25/11/2023 से 15/12/2023 तक
2	झरिया	टासरा		

नोट: चूंकि यह पहली मसौदा रिपोर्ट है जिसके विस्तृत विवरण, प्रतिक्रिया और परिणाम पर सार्वजनिक सुनवाई अभी तक आयोजित नहीं की गई है। परिणामस्वरूप जन सुनवाई के पश्चात जन सुनवाई में पाए गए जांच परिणाम को सम्मिलित करते हुए फाइनल रिपोर्ट पुनः प्रस्तुत की जाएगी।

3. सामाजिक प्रभाव प्रबंधन योजना

3.1 मुकाबला करने और क्षतिपूर्ति करने के उपाय

झारखण्ड भूमि अर्जन, पुनर्वासन और पुनर्व्यवस्थापन में उचित प्रतिकर और पारदर्शिता का अधिकार नियमावली 2015 के अनुसार, प्रस्तावित परियोजना वर्तमान में दो मौजा की भूमि अर्जन से संबंधित है जो की धनबाद नगर निगम के वार्ड संख्या 53 में स्थित है। मौजा रोहड़ाबाँध के पार्ट एरिया जो की खनन पट्टा क्षेत्र में स्थित है में 509 प्लॉट की कुल रकबा 113.963 एकड़ रैयती भूमि जबकि टासरा मौजा के सम्पूर्ण भूमि का अर्जन किया जाना प्रस्तावित है जिसमें C.S. खतियान के अनुसार 493 प्लॉट जिसका कुल रकबा 88.764 एकड़ है जबकि R.S. खतियान के अनुसार कुल 525 प्लॉट की कुल रकबा 118.52 एकड़ भूमि रैयती है जिसका अर्जन किया जाना है भू अर्जन परियोजना का सामाजिक मूल्यांकन है।

भूमि के अधिग्रहण के नकारात्मक सामाजिक प्रभावों को कम करने के लिए यह सामाजिक प्रभाव प्रबंधन योजना (एसआईएमपी) तैयार की गई है। सामाजिक प्रभाव प्रबंधन योजना (एस.आई.पी.) में प्रतिकूल सामाजिक प्रभावों को खत्म करने या स्वीकार्य स्तरों को कम करने के लिए परियोजना के डिजाइन, निर्माण और संचालन के चरणों के दौरान शमन, निगरानी और संस्थागत उपायों का एक समूह शामिल है। सामाजिक प्रभाव प्रबंधन का मुख्य उद्देश्य यह सुनिश्चित करना है कि विभिन्न प्रतिकूल प्रभावों को कम किया गया है और सकारात्मक प्रभाव बढ़े हैं। सामाजिक

टासरा ओपन कास्ट परियोजना हेतु मौजा रोहडाबाँध एवं मौजा टासरा में भू-अर्जन ड्राफ्ट एस० आइ० ए० रिपोर्ट

प्रभाव प्रबंधन परियोजना के विभिन्न चरणों के दौरान कार्यान्वित किया जाएगा, अर्थात पूर्व निर्माण मंच, निर्माण मंच और परिचालन चरण।

3.2 प्रभाव से बचने, मुकाबला करने और क्षतिपूर्ति करने के उपाय:

1. परियोजना प्रभावित परिवारों को स्पष्ट रूप से उन लोगों से लिए जा रहे भूमि के बारे में स्पष्ट रूप से सूचित किया जाना चाहिए, और तदनुसार कुल मुआवजा राशि की गणना कर भुगतान किया जाना चाहिए आदि। बीच में किसी भी प्रकार के बिचौलिया से पूरी तरह से बचा जाना चाहिए।
2. जन सुनवाई एक महत्वपूर्ण गतिविधि है और हमें यह सुनिश्चित करना होगा कि रैयतों के सभी संदेहों को हल किया जाए और उनके संतुष्टि के स्तर को मंजूरी दी जाए।
3. भूमि के अधिग्रहण के बाद, रैयत को अधिग्रहित भूमि के लिए कर का भुगतान करने के बोझ से राहत दिया जाए।
4. यदि हितधारकों में कोई विवाद है, तो इस विवाद को पहले हल कर लिया जाना चाहिए और यह सुनिश्चित किया जाना चाहिए कि मुआवजे कानूनी मालिकों को दी जाये।
5. R & R योजना के तहत दिये जाने वाले लाभ एवं भूमि मुआवजा के बारे में विस्तार से प्रभावित परिवारों को बताया जाये।

3.3 विभिन्न संभावित सामाजिक प्रभावों का विश्लेषण, और उनके प्रस्तावित उपाय:

क्रमांक	प्रभाव का प्रकार	स्थिति	प्रस्तावित शमन योजना
1	भूमि का नुकसान	हाँ, भूमि का नुकसान होगा	झारखंड-आरएफसीटीएलएआरआर नियम, 2015 के अनुसार मुआवजा
2	बिल्ट-अप प्रॉपर्टी का नुकसान	हाँ,	झारखंड-आरएफसीटीएलएआरआर नियम, 2015 के अनुसार मुआवजा
3	उत्पादक संपत्ति का नुकसान	नहीं	-
4	आजीविका का नुकसान	कोई महत्वपूर्ण प्रभाव नहीं, रैयत प्रमुख मजदूर हैं	
5	सार्वजनिक उपयोगिता लाइनों की हानि	हाँ,	झारखंड-आरएफसीटीएलएआरआर नियम, 2015 के R & R के अधिकारों के अनुसार भुगतान
6	सामान्य संपत्ति संसाधनों की हानि	हाँ,	
7	नागरिक सेवाओं और आम संपत्ति संसाधनों तक पहुंच का नुकसान	नहीं	
8	सांस्कृतिक गुणों में कमी	नहीं	
9	कमजोर समूहों के विस्थापन	हाँ, कुछ भूमिहीन परिवार घर बना कर रह रहे हैं	झारखंड-आरएफसीटीएलएआरआर नियम, 2015 के अनुसार मुआवजा

3.4 सामाजिक प्रभाव प्रबंधन योजना

टासरा ओपन कास्ट परियोजना हेतु मौजा रोहडाबाँध एवं मौजा टासरा में भू-अर्जन ड्राफ्ट एस० आइ० ए० रिपोर्ट

इस परियोजना में निम्नलिखित उत्पन्न होने वाले प्रभाव को कम करने की आवश्यकता है। प्रबंधन योजना ग्रामीणों के सुझाव के अनुसार लिए गए हैं।

क्र.सं.	प्रभाव	न्यूनीकरण योजना
1	इस परियोजना के लिए प्रथम चरण में दो मौजा के निजी भूमि का अधिग्रहण किया जा रहा है जिससे हितबद्ध व्यक्तियों की पहचान कर भूमि एवं उसपर अवस्थित परिसम्पत्तियों का उचित मुआवजा दिया जाना चाहिए तथा विस्थापित एवं प्रभावित परिवारों को उनके हक़दारी के पुनर्वास के लाभ दिया जाना चाहिये।	<ol style="list-style-type: none"> 1. परियोजना प्रभावित परिवारों को सर्वेक्षण के समय, कुल मुआवजा राशि की गणना, भुगतान विधि आदि के बारे में स्पष्ट रूप से संप्रेषित करने की आवश्यकता है। बीच में किसी भी बिचौलिये से पूरी तरह से बचा जाना चाहिए। 2. वास्तविक रैयत की पहचान गहन सर्वे एवं राजस्व अभिलेखों की जाँच कर की जाये। 3. ग्रामीणों को किये जा रहे भू अर्जन की भूमि के माप की स्पष्ट जानकारी होनी चाहिए। इसलिए लिए जा रहे भूमि का चिन्हीकरण कर रैयत को स्पष्ट जानकारी देते हुए उचित मुआवजा का आंकलन कर रैयतों को भुगतान किया जाए। 4. R & R योजना के तहत दिये जाने वाले लाभ एवं भूमि मुआवजा के बारे में विस्तार से प्रभावित परिवारों को बताया जाये। 5. भूमि के अधिग्रहण के बाद, रैयत को अधिग्रहित भूमि के लिए कर का भुगतान करने के बोझ से राहत मिले। 6. मुआवजा भुगतान के लिये परियोजना क्षेत्र में कैंप लगाकर कार्य किया जाये। 7. जिन भू-स्वामी का राजस्व अभिलेख दुरुस्त नहीं हो उनकी सर्वे से पहचान कर रिकॉर्ड दुरुस्ती किया जाये। 8. प्रभावित परिवारों को परियोजना के विकास में सहभागी बनाते हुए रोजगार के अधिकतम अवसर उपलब्ध कराया जाये।



ADITI R&D SERVICES

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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT							
ARDS/24-25/NOISE Date: 20/11/2024		TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD							
Date of Monitoring									
11/11/2024 to 12/11/2024 & 12/11/2024 to 13/11/2024		Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant				
P.O.: 6000036592 & Date: 29.01.2024		26	58	CLEAR	RUNNING				
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. 1046E Dt. 22.11.2020 Limit in dB(A) Leq	
		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq		
LOCATION								Day Time	Night Time
BUFFER ZONE								Residential Area	Residential Area
1.	KD COLONY	54.0	44.4	51.44	41.6	40.2	40.96	55	45
2.	Maa Hospital Baliapur	53.6	42.6	50.92	43.2	41.6	42.47		
3.	B.C.C.L GUEST HOUSE GEALGORA, DIGWADIH	54.2	43.5	51.54	44.6	40.2	42.93		
CORE ZONE								Industrial Area	Industrial Area
1.	NEAR CHECK POST TASRA SIDE OFFICE KTMLP	71.6	60.3	68.9	58.4	52.6	56.4	75	70
2.	ARYA SAMAJ GOUSHALLA	70.5	63.6	68.3	53.8	50.8	52.55		
3.	NEAR G.M. OFFICE CHASNALLA	68.4	64.6	66.9	59.6	53.4	57.52		

[Signature]
Sr. Chemist
Aditi R&D Services



[Signature]
Technical Manager
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/AAQ/2

Date: 20/11/2024

ANNEXURE-XII

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. – DHANBAD
- Work Order P.O. NO. & Date: 6000036592 & Date : 29.01.2024
- Date of Sample Collection: 11/11/2024 to 12/11/2024
- Date of Testing : 13/11/2024 to 14/11/2024
- Test Procedure : As per IS - 5182
- Sampling Location : NEAR K.D. COLONY

TEST RESULTS

	BUFFER ZONE			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location NEAR K.D. COLONY	
	26	58		
SI No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		64.20	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		38.16	60 µg/m ³
3.	SO ₂ , µg/m ³		31.62	80 µg/m ³
4.	NO ₂ , µg/m ³		28.4	80 µg/m ³
5.	NH ₃ , µg/m ³		10.60	400 µg/m ³
6.	CO, mg/m ³		0.30	4 mg/m ³
7.	Pb, µg/m ³		BDL	1 µg/m ³
8.	As, ng/m ³		BDL	6ng/m ³
9.	Ni, ng/m ³		BDL	20ng/m ³
10.	Benzene, µg/m ³		BDL	5 µg/m ³
11.	Benzoapyreneng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		12.80	180 µg/m ³

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/AAQ/3

Date: 20/11/2024

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TASRA COAL MINING PROJECT, COLLIERIES DIVISION,
STEEL AUTHORITY OF INDIA LTD.
CHASNALLA – 828135, DIST. - DHANBAD
- Work Order P.O. NO. & Date: 6000036592 & Date : 29.01.2024
- Date of Sample Collection: 12/11/2024 to 13/11/2024
- Date of Testing : 14/11/2024 to 15/11/2024
- Test Procedure : As per IS - 5182
- Sampling Location : TASRA NEAR ARYA SAMAJ, SINDRI

TEST RESULTS

Sl No.	CORE ZONE			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	SAMPLING LOCATION TASRA NEAR ARYA SAMAJ, SINDRI	
	26	58		
1.	Particulars		Value	
	Particulate Matter (PM ₁₀), µg/m ³		77.65	100 µg/m ³
	Particulate Matter (PM _{2.5}), µg/m ³		41.20	60 µg/m ³
	SO ₂ , µg/m ³		36.65	80 µg/m ³
	NO ₂ , µg/m ³		26.10	80 µg/m ³
	NH ₃ , µg/m ³		16.65	400 µg/m ³
	CO, mg/m ³		0.71	4 mg/m ³
	Pb, µg/m ³		BDL	1 µg/m ³
	As, ng/m ³		BDL	6ng/m ³
	Ni, ng/m ³		BDL	20ng/m ³
	Benzene, µg/m ³		BDL	5 µg/m ³
	Benzoapyreneng/m ³		BDL	1ng/m ³
	Ozone, µg/m ³		17.63	180 µg/m ³

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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Ref. No.: - ARDS/24-25/AAQ/4

Date: 20/11/2024

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD.
CHASNALLA – 828135, DIST. - DHANBAD
- Work Order P.O. NO. & Date: 6000036592 & Date : 29.01.2024
- Date of Sample Collection: 11/11/2024 to 12/11/2024
- Date of Testing : 13/11/2024 to 14/11/2024
- Test Procedure : As per IS - 5182
- Sampling Location : NEAR G.M. OFFICE CHASNALLA

TEST RESULTS

Sl No.	CORE ZONE			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location NEAR G.M. OFFICE CHASNALLA	
	26	58		
Particulars	Value			
1.	Particulate Matter (PM ₁₀), µg/m ³	60.30		100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³	48.65		60 µg/m ³
3.	SO ₂ , µg/m ³	28.38		80 µg/m ³
4.	NO ₂ , µg/m ³	23.4		80 µg/m ³
5.	NH ₃ , µg/m ³	12.6		400 µg/m ³
6.	CO, mg/m ³	0.60		4 mg/m ³
7.	Pb, µg/m ³	BDL		1 µg/m ³
8.	As, ng/m ³	BDL		6ng/m ³
9.	Ni, ng/m ³	BDL		20ng/m ³
10.	Benzene, µg/m ³	BDL		5 µg/m ³
11.	Benzoapyreneng/m ³	BDL		1ng/m ³
12.	Ozone, µg/m ³	14.69		180 µg/m ³

Sr. Chemist
Aditi R&D Services



Technical Manager
Aditi R&D Services, Sindri

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Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/AAQ/5

Date: 20/11/2024

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD.
CHASNALLA - 828135, DIST. - DHANBAD
- Work Order P.O. NO. & Date: 6000036592 & Date : 29.01.2024
- Date of Sample Collection: 12/11/2024 to 13/11/2024
- Date of Testing : 14/11/2024 to 15/11/2024
- Test Procedure : As per IS - 5182
- Sampling Location : MAA HOSPITAL BALIAPUR

TEST RESULTS

SI No.	BUFFER ZONE			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location MAA HOSPITAL BALIAPUR	
	26	58		
Particulars	Value			
1. Particulate Matter (PM ₁₀), µg/m ³	65.34		100 µg/m ³	
2. Particulate Matter (PM _{2.5}), µg/m ³	33.16		60 µg/m ³	
3. SO ₂ , µg/m ³	20.36		80 µg/m ³	
4. NO ₂ , µg/m ³	17.84		80 µg/m ³	
5. NH ₃ , µg/m ³	12.60		400 µg/m ³	
6. CO, mg/m ³	0.34		4 mg/m ³	
7. Pb, µg/m ³	BDL		1 µg/m ³	
8. As, ng/m ³	BDL		6ng/m ³	
9. Ni, ng/m ³	BDL		20ng/m ³	
10. Benzene, µg/m ³	BDL		5 µg/m ³	
11. Benzoapyreneng/m ³	BDL		1ng/m ³	
12. Ozone, µg/m ³	15.40		180 µg/m ³	

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Aditi R&D Services



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Aditi R&D Services, Sindri

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Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/24-25/AAQ/6

Date: 20/11/2024

TEST REPORT OF AMBIENT AIR QUALITY

- Name of the industry : TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD.
CHASNALLA – 828135, DIST. - DHANBAD
- Work Order P.O. NO. & Date: 6000036592 & Date : 29.01.2024
- Date of Sample Collection: 12/11/2024 to 13/11/2024
- Date of Testing : 14/11/2024 to 15/11/2024
- Test Procedure : As per IS – 5182
- Sampling Location : B.C.C.L GUEST HOUSE JEALGORA, DIGWADIH

TEST RESULTS

SI No.	BUFFER ZONE			NAAQ – CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location	
	27	59	B.C.C.L GUEST HOUSE JEALGORA, DIGWADIH	
Particulars	Value			
1. Particulate Matter (PM ₁₀), µg/m ³	69.84			100 µg/m ³
2. Particulate Matter (PM _{2.5}), µg/m ³	40.60			60 µg/m ³
3. SO ₂ , µg/m ³	29.33			80 µg/m ³
4. NO ₂ , µg/m ³	23.10			80 µg/m ³
5. NH ₃ , µg/m ³	15.68			400 µg/m ³
6. CO, mg/m ³	0.42			4 mg/m ³
7. Pb, µg/m ³	BDL			1 µg/m ³
8. As, ng/m ³	BDL			6ng/m ³
9. Ni, ng/m ³	BDL			20ng/m ³
10. Benzene, µg/m ³	BDL			5 µg/m ³
11. Benzoapyreneng/m ³	BDL			1ng/m ³
12. Ozone, µg/m ³	18.65			180 µg/m ³

Sr. Chemist
Aditi R&D Services

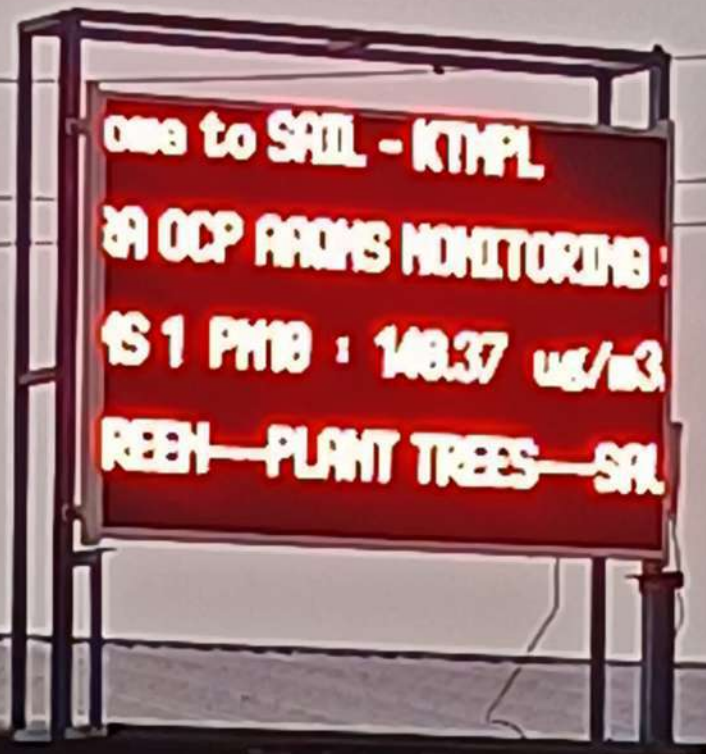


Technical Manager
Aditi R&D Services, Sindri

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CAAQMS INSTALLED
AT PROJECT SITE



Note cam lite

Address : Domgarh, Jharkhand, India

Latitude : 23° 38' 59.61" N

Longitude : 86° 28' 57.75" E

Altitude : 146.0 meter

Date : 12/10/2024 05:03 pm

Accuracy : 2.2 meter

Time zone : GMT+05:30

Note : Display Board for Public View



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीज़न /COLLIERY DIVISION
तासरा कोलियरी/TASRA COLLIERY

पोस्ट ऑफिस चासनाला – 828 135, जिला धनबाद – (झारखण्ड)
P.O. CHASNALLA – 828135, DISTT.: DHANBAD (Jharkhand)

Ref. No: -DGM./TASRA/Env.Stat 23-24/ 56.

Date:- 16.09.2024

To,
The Member Secretary
Jharkhand State Pollution Control Board
T.A. Division Building, HEC Campus, Dhurwa
Ranchi, Jharkhand-834004

Sub: Submission of Environment Statement of Tasra Coal Mining Project of M/s Steel Authority of India Limited for the FY 2023-24.

Ref.: JSPCB/HO/RNC/CTO-15663289/2023/1161 dated 28.06.2023

Dear Sir,

Please find the enclosed herewith “**Environment Statement**” of Tasra Coal Mining Project for the financial year 2023-24 in duly filled in the prescribed format Form-V under rule 24 of the Environment (Protection) Rule 1986.

Thanking you,

Your's faithfully

[Signature]
16/09/2024
Dy. GM (Mining), Tasra
Tasra Coal Mining Project
BSL-Collieries Division, SAIL

Encl: As stated above.

Copy to:

1. Regional Officer, MoEF & CC, Ranchi.
2. Regional office, Dhanbad, Jharkhand.

[FORM –V]

(See rule 14)

Environment Statement for the financial year ending the 31st March 2024 for Tasra Coal Mining Project of M/s-Steel Authority of India Limited.

PART-A

- i) Name and address of the owner/occupier of the industry operation or process.
Sri Sibaram Banerjee, GM I/C (Tasra & Chasnalla), Central Office, Collieries Division, BSL-Collieries, SAIL, Chasnalla, Dhanbad, Jharkhand- 828135
- ii) Industry category: - **Mining, Code - 010232.**
Primary (STC Code): **Primary (Opencast Coal Mine)**
Secondary (STC Code): **Integrated Iron & Steel Industry**
Production capacity – Units: **Production Capacity: 4MTPA**
OPENCAST COAL MINE PROJECT
(In the FY 2023-24, only 3,33,316 tonne of incidental coal has been produced as the mine is still in developmental stage due to pending Land Acquisition)
- Year of establishment: **2009.**
- iii) Date of the last environmental statement submitted: **28.04.2023**

PART-B

Water and River Material Consumption

- (I) Water consumption m³/d:
- Process : **No process is involved in excavation of coal.**
- Cooling : **Nil**
- Domestic : **Nil (Township is yet to be developed)**
- Name of Products:

i) Process water consumption per unit of product output

	During the previous financial Year	During the current financial Year
COAL	Nil	Nil

ii) Raw Material Consumption

*Name of raw materials	Name of products	Consumption of raw Material per unit of output	
		During the Previous financial year (2022-23)	During the current financial year (2023-24)
1. H S DIESEL	COAL &	0.42 litre/tonne	0.56 litre/tonne
2. EXPLOSIVES	OVER BURDEN	0.15 kg/tonne	0.16 kg/tonne

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

1) Pollutants	Quantity of pollutants discharged (mass /day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
a) Air b) Water	<p>1. Quarterly Sampling and analysis of PM₁₀, PM_{2.5}, SO₂ and NO_x etc. have been carried out from stations established in the core zone as well as buffer zone of Tasra OCP.</p> <p>2. Monitoring of quality of ground water, surface water (upstream & downstream of mine site) and mine water from core zone and buffer zone of Tasra mine have been regularly monitored.</p> <p>3. All parameters are within limit.</p> <p>4. All parameters are analysis by an NABL Accredited/ISO9001:2008 and OHSAS 18001:2007 certified lab M/s Adity R&D Service (Recognized by Jharkhand State Pollution Control Board), Sindri, Dhanbad, Jharkhand.</p> <p>Ambient Air Quality and Water Analysis reports enclosed as ANNEXURE- I.</p>		

PART- D Hazardous Wastes

(As specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous Financial Year	During the current Financial Year
a) From Process b) From Pollution control facilities	<p>NO HAZARDOUS WASTES ARE GENERATED.</p>	

PART- E Solid Wastes

Total Quantity	
During the previous FY 2022-23	During the current FY 2023-24
10,31,566.358	7,49,505.632

a) From process	-----NOT APPLICABLE-----
b) From pollution control facility	-----NOT APPLICABLE-----
c) (1) quantity recycled or re-utilised within the unit (2) Sold (3) Disposed	<p>Total solid waste generated is being dumped in old abandoned pit in the project area, previously worked by BCCL.</p>

***Solid Wastes comprises broken overlying rocks of coal seams i.e. Over Burden.**

PART-F

Please specify the characterisation (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- No hazardous wastes are generated.**

- However, solid waste in the form of broken overlying rocks of coal (i.e. Over burden) are generated from open cast mines. Solid wastes are disposed off in the de-coaled area (about 90%) and remaining 10% is disposed off in the over burden dump yards.

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production:

1. Water sprinkling is being done in the quarry area, haul roads, dump yards, loading/unloading areas, weigh bridges, office and surrounding locality to suppress the dust and its generation.
2. HEMMs are under regular maintenance for control of noise.
3. Proper and controlled blasting techniques are undertaken to minimise blast induced ground vibration & noise
4. Piezometer has been installed for ground water level monitoring at Tasra OCP.
5. Drain cleaning all around of mine periphery area.
6. Rain water harvesting system has been installed at various points Chasnalla coal complex (23 units has been installed).
7. ROM Coal is transported from Tasra mine pit to CPP, Chasnalla by tarpaulin covered trucks. Entire coal is being transported by rail mode from railway siding of CCP to captive steel plant of SAIL.
8. PM10 Analyzer has been installed at Tasra Siding.
9. OB generated during small scale mining was used to fill up the old abandoned mine previously worked by M/S BCCL lying well within the earmarked OB dump area.
10. Coal production and waste excavation report enclosed as annexure-II.

PART-H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution:

Further improvement in dust suppression 02 (Two) numbers Mist Generators (Water mist cannon) have been installed at Tasra Siding. The mine is in initial development stage, temporary approach road is being maintained. Approach roads and haul roads are being maintained by road grader and continuous water sprinkling is being done for dust suppression. Natural plants are there at all along of the temporary approach road.

PART-I

Any other particulars for improving the quality of the environment:

World Environment Day was celebrated on 5th June 2024 for spreading environmental awareness amongst the populace surrounding Tasra open cast project. Tree plantation drive was also conducted along the haul road of mine.

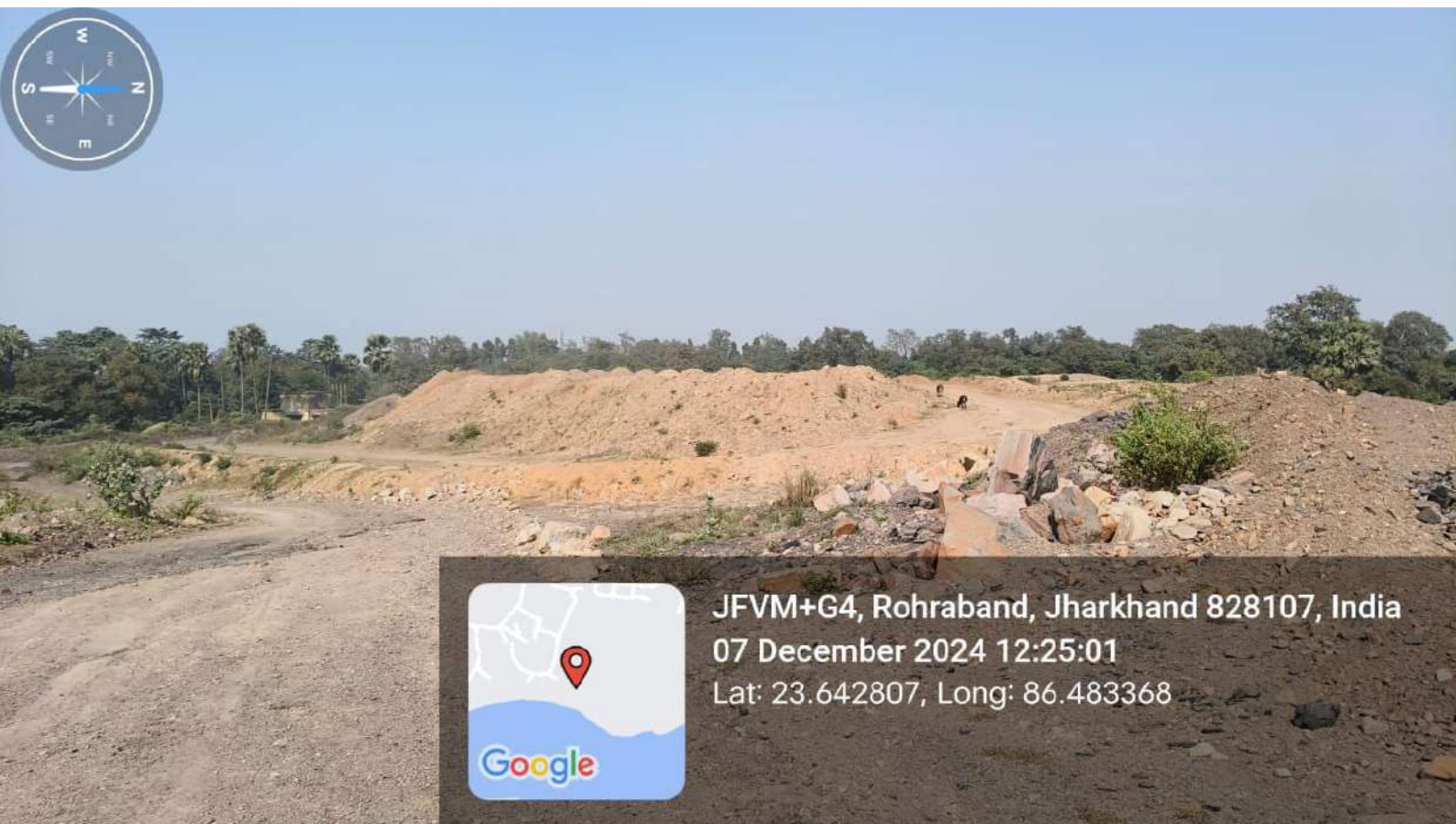


PHOTO- 1 (TOP SOIL DUMP YARD)

Construction of Garland Drain is under progress



PHOTO - 2 (GARLAND DRAIN)

PHOTO-3 (WATER SPRINKLING AT MINE AND COAL STOCK YARD)



Water sprinkling at the railway siding road by mobile water tanker



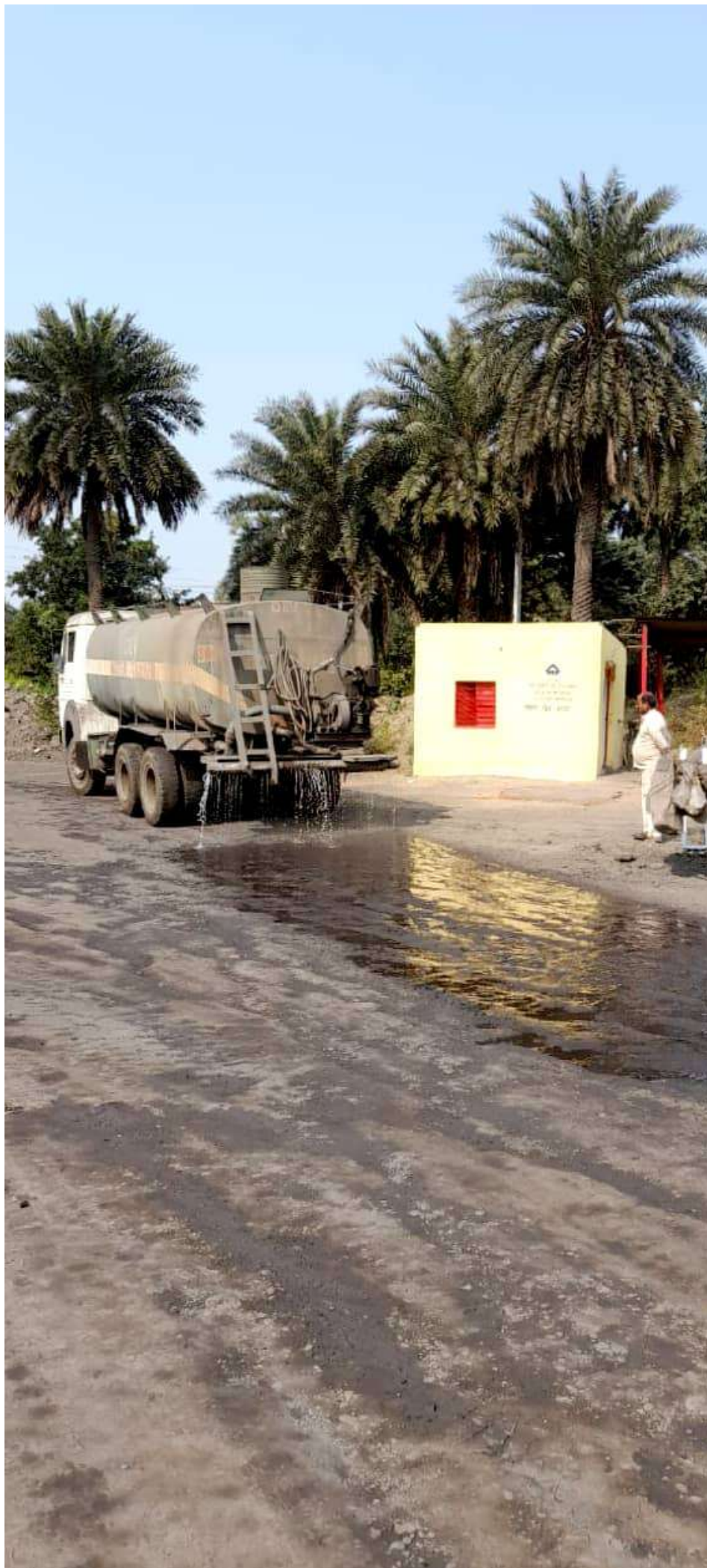
Railway side road after water sprinkling



Water sprinkling done in the mine approach road

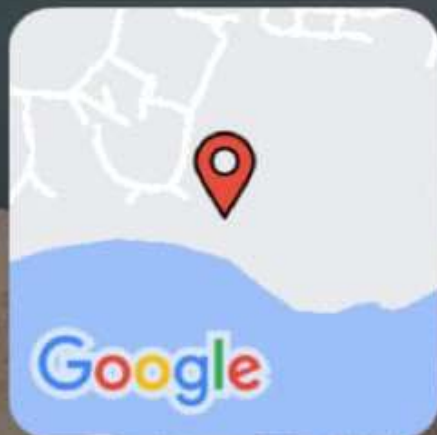


Water sprinkling is being done at mine side coal stock yard



Source of water for project and ground water recharge for project

PHOTO NO-4



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