



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
 कोलियरीज डिवीज़न, तामरा
COLLIERIES DIVISION, TASRA

Ref: DGM./Tasra/EC(Comp-Washery)/Dec25/27

Date: 28-11-2025

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 Coking Coal Washery Plant (3.5 MTPA), BSL-Collieries, SAIL for the period Apr'2025 to Sep' 2025

Ref: EC granted vide Ref. no. EC24A0801JH53552025N dated 14th November, 2024.

Dear Sir,

Please find enclosed herewith the updated six-monthly compliance report for the period Apr'2025 to Sep' 2025 with respect to the condition stipulated in the Environment Clearance granted by MoEFCC, New Delhi vide letter no. EC24A0801JH53552025N dated 14th November, 2024 for Tasra Coking Coal Washery Plant (3.5 MTPA) 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

(Pankaj Kumar)

Deputy General Manager (Mining), Tasra

Encl: As above

Copy to:

1. The Additional Director(s),
 MOEF&CC (Govt. of India), Integrated Regional Office
 2nd Floor, Headquarter- 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,
 HEC Complex, Dhurwa, Ranchi 834004.
4. The Regional Officer,
 Regional Office, JSPCB, Dhanbad-826001.

पंकज कुमार / Pankaj Kumar
 डी. जनरल मैनेजर (माइनिंग), तामरा
 डी. जनरल मैनेजर (माइनिंग), तामरा
 डी. जनरल मैनेजर (माइनिंग), तामरा
 SAIL- BSL, Colliery Division, Chasnalla

- 1. Project Name-**Tasra Coking Coal Washery (Area 21 Ha having capacity of 3.5 MTPA) by M/s Steel Authority of India Ltd., located at Vill- Rohrabandh, Dhanbad, Jharkhand.
- 2. EC Ref. No.-**EC24A0801JH5355205N
- 3. Compliance Period-** Post Monsoon Season, 2025.

Sl. No.	EC Conditions	PP Submission	Compliance
Specific Conditions:			
1	Project proponent has to obtain the consent to operate (CTO) for 3.5 MTPA Coal Washery after grant of Environmental clearance.	Agreed to Comply	Construction activities have not yet started owing to pending lease deed agreement with FCIL management. It shall be complied before operation of the washery
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	Complied.	Wildlife Conservation Plan has been approved by PCCF on 06.03.2025. <i>Copy of WCP is attached as Annexure-I</i>
3	Water requirement for the project is 966 m ³ /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	Agreed to Comply	No GW or SW is proposed to be used for project. Only mine water will be used for washery; NOC for abstraction of GW is granted by CGWA on dated 07/02/2025. <i>Copy of NOC for abstraction of GW is attached as Annexure – II.</i>
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	Agreed to Comply	Noted for compliance.
5	Solar power system shall be established and 10% of the total power requirement shall be utilize through Solar Power system.	Agreed to Comply	Provision for exploiting solar energy is already proposed. Roof Top Solar Plant of 132 KW will be installed over product stock pile shed of the Washery Plant.
6	Transportation of Raw Coal shall take place by cross country belt conveyor and transportation of 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.	Agreed to Comply	Transportation of raw coal will be through cross country belt conveyor only. Clean coal and middling from washery plant will be transported through rail. A GPS mounted water tanker shall be used for regular watering purposes over the transportation route. Currently no construction has been started at the project site.

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.	Agreed to Comply	Noted for compliance.
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.	Agreed to Comply	Noted for compliance.
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/MoEFCC 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.	Agreed to Comply	However construction activities of installation of washery have not yet started owing to pending lease deed agreement with FCIL management. It shall be complied before operation of the washery.
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 and untreated wastewater shall be discharged outside the boundaries of project area.	Agreed to Comply	The coal washery is proposed to work on ZLD system.
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	Agreed to Comply	Construction yet to start due to pending transfer of lease from concerned authorities. EMP will be implemented with progress of the project work.

12	Project proponent shall install a continuous ambient air quality monitoring station (CAAQMS) 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 and SPCB web portal. In addition, data should also be displayed digitally at entry and exit gate of Plant for public display.	Agreed to Comply	The project is situated in industrial area of FCIL. Hence, CAAQMS will be installed within the washery area with display board at the entry gate prior to start of washery operations.
13	The workers shall be provided all the essential facilities/Personal Protective Equipment (PPE) during operation and maintenance at workplace.	Being Complied.	PPE kits (e.g. Masks, ear muffs/plugs, safety shoes etc.) will be made available to all workers involved in construction activities and during operation period.
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.	Agreed to Comply	An Occupational Health Specialist will be appointed for Regular and Periodical medical examination of the workers engaged in the project after installation of washery and records will be maintained. Meantime, a dispensary with OHS Specialist Doctor with sitting medical staff at our Tasra Mines is serving project affected persons.
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.	Agreed to Comply	Noted for compliance.
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 account 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.	Agreed to Comply	It shall be complied.

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.	Being Complied.	Monitoring of heavy metals in ground water is monitored quarterly along with mines area. The monitoring results are submitted to MOEFCC in six monthly compliance reports. Piezometer is also installed in mines area for continuous monitoring of ground water level. Also, GWL monitoring is further supplemented by a network of 12 existing wells identified across the core and buffer zones. <i>Copy of monitoring result and well location is attached as Annexure – III.</i>
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.	Agreed to Comply	Noted for compliance.
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.	Agreed to Comply	It shall be complied.
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.	Agreed to Comply	Noted to comply.
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.	Being complied	A boundary wall of approx. 6m is under construction all along the site which will also act as wind barrier to restrict the dust emissions from project area.
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 reports.	Agreed to Comply	World Environment Day on 5th June 2025 has been celebrated at the washery area with theme “#BeatPlasticPollution” along with the SAIL and MDO officials. Around 100 nos. of tree have been also planted on this occasion. <i>Photographs are attached as Annexures – IV</i>
Standard Conditions:			
A	Statutory compliance		

1	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Complied	CTE for Tasra Washery (3.5 MTPA) has been granted by JSPCB on 21.03.2025. CTO shall be taken up before operation of washery. <i>Copy of CTE is attached as Annexure-V.</i>
2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	Complied	Permission for abstraction of GW has been granted by CGWA dated 02.07.2025. <i>Copy of NOC of CGWA is attached as Annexure- II.</i>
3	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous and Other Waste Management Rules, 2016.	Complied	Hazardous waste generated generally comprised of spent oil from HEMM, which is stored at designated place & sold to authorised vendor only. <i>Copy of authorization of hazardous waste management is attached VI.</i>
4	Coal beneficiation practices shall be carried out under strict adherence to provisions of the Factories Act, 1957 and subordinate legislations made there under	Agreed to Comply	It shall be complied.
B	Air quality monitoring and mitigation measure		
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	Complied	A total of 12 locations (including core and buffer zone) has been fixed for monitoring the ambient air quality. Locations are fixed in accordance to the norms of CPCB/MoEFCC. Monitoring of heavy metals is also being carried out at eight different locations across the project site. <i>Monitoring report is attached as Annexure-III</i>
2	Continuous ambient air quality monitoring stations as prescribed in the statue 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	Being Complied	A network of 12 stations has been established for Ambient Air Quality monitoring across the project's core and buffer zones. Station placement complies with CPCB/MoEFCC guidelines, incorporating analyses of meteorological data, local topography, and the location of sensitive ecological and environmental targets. Monitoring for heavy metals is

	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		integrated into the sampling schedule at all 12 locations.
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.	Agreed to Comply	Noted for compliance.
4	Vehicular emissions shall be kept under control and regularly monitored. The vehicles having 'PUC' certificate from authorized pollution testing centers shall be deployed for washery operations.	Agreed to Comply	Noted for compliance.
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	Agreed to Comply	Noted for compliance.
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.	Agreed to Comply	Raw/washed coals will be stored at earmarked places only.
C	Noise and Vibration monitoring and prevention		
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.	Being Complied	Noise monitoring is done at different locations including the core and buffer zone. <i>Monitoring report is attached as Annexure-III</i>

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 equipment (PPE) like ear plugs/muffs in conformity 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.	Agreed to Comply	Adequate measures will be taken to reduce noise level as per the Noise Pollution Rules, 2016. PPE will be provided to all workers working in noise zones.
D	Water quality monitoring and mitigation measures		
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 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board.	Being Complied	Surface and Ground Water monitoring at different locations has been conducted by NABL accredited laboratory.
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-IA.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.	Being Complied	It is being complied.
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.	Agreed to Comply	Washery will be based on ZLD system. No effluent will be discharged outside.
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 stabilized with plantation so as to withstand the peak water pressure	Agreed to Comply	Not Applicable as the project site does not have any natural stream falling in its area.

	preventing any chance of inundation		
5	Heavy metal content in raw coal and washed coal shall be analyzed once in a year and records maintained thereof.	Agreed to Comply	Noted for compliance
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.	Agreed to Comply	The washery is proposed in the FCIL campus which is an industrial area. There is no river or stream passing by in the core zone of the project area; However, a surface water management plan will be developed before operations for the catchment area of project site and will be managed.
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'	Agreed to Comply	Washery will be based on ZLD system. No effluent will be discharged outside.
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 m ³ /tonne of raw coal.	Agreed to Comply	No GW will be used for washery. Only mines water will be used.
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.	Complied	GW monitoring for quality is being done at 5 locations. Also, GWL monitoring is further supplemented by a network of 12 existing wells identified across the core and buffer zones. <i>Monitoring results are attached as Annexure III.</i>
10	The project proponent shall take all precautionary measures to ensure riverine/ riparian ecosystem 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	Agreed to Comply	Noted for compliance

	irrigation / water resource department in the state government.		
E	Green belt		
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.	Agreed to Comply	Not applicable as it is in industrial land
F	Public hearing and Human health issues		
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 and 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.	Agreed to Comply	Noted for compliance
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.	Agreed to Comply	PPE kits will be provided to all workers and same will be implemented for all.
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 outsees shall be	Agreed to Comply	Noted for compliance

	compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.		
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'.	Agreed to Comply	Noted for compliance
G	Miscellaneous		
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 permanently	Complied	Public notice has been published in two newspapers Prabhat Khabar on 22.11.2024 and Times of India on 23.11.2024. <i>Copy of published newspaper is attached as Annexure-VII.</i>
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	Complied	Copy of receiving's from different Departments are attached as <i>Annexure-VIII</i> for reference.
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.	Complied	Complied
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	Complied	Regular monitoring of criteria pollutants to check the pollution level.

	public and put on the website of the company.		
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.	Being Complied	Six monthly compliances is being submitted within stipulated time period as specified by MoEFCC.
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.	Agreed to Comply	Noted for compliance
7	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Complied	Tasra Mining is currently operational, with activities being conducted on a limited scale. Upon completion of the Tasra washery, mining is projected to reach its peak operational capacity.
8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Being Complied	Being PSU, SAIL strictly adhere to all stipulations set forth by the State Pollution Control Board and the State Government.
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.	Agreed to Comply	Noted for compliance
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	Agreed to Comply	Noted for compliance
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	Agreed to Comply	Noted for compliance

	Environment (Protection) Act, 1986.		
12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to Comply	Noted for compliance
13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Agreed to Comply	Noted for compliance
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	Agreed to Comply	Noted for compliance
15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and 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	Agreed to Comply	Noted for compliance
16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within period of 30 days asprescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed to Comply	Noted for compliance
17	Coal stacking plan shall be prepared separately for raw coal, clean coal, middling and rejects.	Agreed to Comply	Noted for compliance
18	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	Agreed to Comply	Solar panels will be installed to harness solar energy.

Annexure I



**Office of the Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden, Jharkhand.**

Van Bhawan, Doranda, Ranchi-834002

Email: pccf-wildlife@gov.in; Phone No. 0651-2481744



Office Order No. ...12.....

Dated...06/03/2025...

Sanction Order of the Site-Specific Wildlife Conservation & Management Plan for Tasra Coking Coal Washery of Steel Authority of India Limited located in Sindri, District: Dhanbad (Jharkhand).

The Site-Specific Wildlife Conservation & Management Plan (referred to as "*the Plan*" hereinafter) has been prepared by VARDAN ENVIRONET LLP, Gurgaon in compliance of the Terms of Reference under the provision of the EIA Notification 2006 issued by IA Division, Ministry of Environment, Forest and Climate Change, Govt. of India vide No. J-11015/122/2007-IA-II (M) dated 12th April, 2024 in respect of the project Tasra Coking Coal Washery Plant of M/s Steel Authority of India Limited (referred to as "*the Project Proponent*" or "*the PP*" hereinafter) with 3.5 MTPA capacity of 21 ha. area, located at FCIL Campus, Town-Sindri, District: Dhanbad (Jharkhand).

In reference of the above, the Plan was submitted for its due approval to the office of the undersigned vide Letter no. 169 dated 29.01.2025 of the Addl. Principal Chief Conservator of Forests, Bokaro (APCCF, Bokaro).

In order to examine the plan prescriptions a communication was issued to the APCCF, Bokaro, vide this office letter no. 170 dated 18.02.2025, to arrange a Power-Point Presentation on 21.02.2025 in the office room of the undersigned. The presentation (PPT) was made by the PP in the presence of APCCF, Bokaro; CCF, Wildlife, Jharkhand; CF, Territorial Circle, Bokaro; DFO, Dhanbad Forest Division; Dr. Sunil Prasad, GM, EB expert Vardan; Shree S Banerjee, GM, Incharge (Tasra); Shree S K Kureel, GM (Tasra); Shree Pankaj Kumar, Dy. GM (Tasra) and Shree Ripudananlal Srivastava, Env. Engineer.

The Plan contains detailed description of activities and corresponding cost estimates. The summary of the proposed Plan (component wise) with the objective of conservation of forest and wildlife resources as also to mitigate the impacts of the project on forests and wildlife is as follows:

Sl. No.	Work Components	Total (Rs. in lakhs)
A	Habital Management	
	I. Management of Food	304.59
	II. Management of Water	167.00
	III. Management of Shelter	199.24
	Total of Habitat Management-	670.83

B	Wildlife Conservation Activity	177.70
C	Eco Development Work/ Capacity Building	60.00
D	Awareness and Training Program	81.00
E	Strengthening of Infrastructure for Wildlife Conservation	295.00
F	Miscellaneous Activity	69.00
	Sub Total	1353.53
	Cost Escalation @20%	270.70
	Grand Total-	1624.23

The plan with a total financial outlay of Rs. 1624.23 Lakhs extends over a period of 10 years (Year 2024-25 to 2033-34).

Considering the proposals under the plan, sanction is hereby accorded to the instant Plan subject to the following conditions:

- (i) That the Project Proponent shall ensure that its officials/ contractors and the work force engaged under the Project shall not commit or abet any forest/ wildlife offence in their area of operation. They will also promptly report any forest/ wildlife offence in the area to the nearest forest office/ official. Further, they will extend their full cooperation to the forest officials in control/ mitigation of any incident, natural or man made, detrimental to forest and wildlife in their area of operation.
- (ii) That the total amount of Rs.1624.23 lakhs involved in the Plan shall be deposited by the Project Proponent as per the demand note issued by DFO, Dhanbad Forest Division into Govt. Treasury, Dhanbad in favour of "DFO, Dhanbad Forest Division" under the head "Van Preshan Lok Lekha (Praptiyan) Head 8782". DFO, Dhanbad Forest Division shall withdraw money from the Treasury for implementation of the activities mentioned in the duly sanctioned Annual Plans of Operation, as described in the following paras, from "8782 Remittance Head" and maintain accounts under "Lok-Lekha Head 8443". DFO, Dhanbad Forest Division shall submit monthly account to the Accountant General, Jharkhand as per prevailing norms of the Forest Department.
- (iii) That the Implementing Agencies shall prepare detailed Annual Plan of Operations (APOs) with respect to areas under their control, at the beginning of the Financial Year in accordance with the activities mentioned in the Plan following all the rules, regulations, Schedule of Rates etc. issued from time to time by the State Government/ Forest Department. APCCF, Bokaro shall accord sanction to the said APOs submitted by DFO, Dhanbad Forest Division, following due process and he/ she will closely monitor the implementation/ progress of the activities undertaken by the DFO Dhanbad Forest Division as per directions issued by the Forest Department from time to time.
- (iv) The Project Proponent and project personnel will comply with the provisions of Standard SOP/ Guidelines issued by WII, Dehradun for projects.

- (v) That the CF, Territorial Circle, Bokaro shall supervise all the activities as per directions issued by the Forest Department from time to time.
- (vi) That the DFO, Dhanbad Forest Division shall carry out the activities under the Plan strictly as per the duly sanctioned APOs.
- (vii) That the DFO, Dhanbad Forest Division shall ensure that no violation of duly sanctioned Working Plan of Bokaro Forest Division takes place during implementation of any of the activities involved in this plan over notified and demarcated forest land.
- (viii) That the Plan shall be revisited after every 2 years and a revised plan may be formulated as per need of the impact area and convenience of the implementing agencies. The revised plan, if any, shall be put up before the Principal Chief Conservator of Forests, Wildlife & Chief Wildlife Warden, Jharkhand for its approval.
- (ix) That the Project Proponent shall submit an Undertaking to the DFO, Dhanbad Forest Division to the effect that they will deposit extra cost of the Plan beyond the cost escalation provision owing to increase in wage rate, cost of materials etc. in due course of time as well as consequent upon revision of the plan, if any, as and when given effect to by the competent authority.

Sd/-

Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden,
Jharkhand, Ranchi.

Memo No.- 936(WL)P/2024-25-..... Dated:.....

Copy forwarded to Deputy Director General (C), Ministry of Environment, Forests and Climate Change, Integrated Regional Office, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi -834002 [E-mail: ro.ranchi-mef@gov.in] / Secretary, Department of Forests, Environment and Climate Change, Govt. of Jharkhand, Ranchi/ Principal Chief Conservator of Forests, Jharkhand, Ranchi for information.

Sd/-

Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden,
Jharkhand, Ranchi.

Memo No.- 936(WL)P/2024-25-..... Dated:.....

Copy forwarded to PCCF –cum- Executive Director, Wasteland Development Board, Jharkhand, Ranchi/ Addl. PCCF, CAMPA, Jharkhand, Ranchi with a copy of the Plan.

Sd/-

Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden,
Jharkhand, Ranchi.

Memo No.- 936(WL)P/2024-25-..... Dated:.....

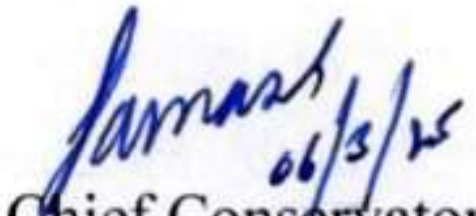
Copy forwarded to Additional Principal Chief Conservator of Forests, Bokaro/
Conservator of Forests, Territorial Circle, Bokaro/ Divisional Forest Officer, Dhanbad Forest
Division for information and necessary action.

Sd/-

Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden,
Jharkhand, Ranchi.

Memo No.- 936(WL)P/2024-25-259. Dated: 06/03/2025

Copy forwarded to Dy. General Manager (Tasra), Tasra Opencast Project, SAIL-BSL,
Collieries Division, Chasnalla [E-mail: gmtasra@gmail.com] for information and necessary
action.


Principal Chief Conservator of Forests,
Wildlife & Chief Wildlife Warden,
Jharkhand, Ranchi.

Annexure II



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Tasra Block (m/s Steel Authority Of India Ltd.)		
Project Address:	Village - Tasra, Kandra, Domgarh, Rohrabandh, Het Kandra, Chakchitahi Chasnalla		
Town:	Jharia	Block:	Jharia
District:	Dhanbad	State:	Jharkhand
Pin Code:			
Communication Address:	Gm Office, Sail, Chasnalla, Jharia, Dhanbad, Jharkhand, Pincode, Jharia, Dhanbad, Jharkhand - 828135		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1.	NOC No.:	CGWA/NOC/MIN/ORIG/2025/21505					2.	Date of Issuence	7/2/2025 1:00:13 PM						
3.	Application No.:	21-4/2006/JH/MIN/2024					4.	Category: (GWRE 2024)	Semi Critical						
5.	Project Status:	Existing Project					6.	NOC Type:	New						
7.	Valid from:	24/08/2024					8.	Valid up to:	23/08/2026						
9.	Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering			Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
280.00		102200.00						3665.00		1337725.00		3945.00		1439925.00	
10.	Details of ground water abstraction /Dewatering structures														
Total Existing No							Total Proposed No								
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu		
Abstraction Structure*		0	0	0	0	0	0	0	0	2	0	0	0		
Dewatering Structure*		0	0	0	0	0	1	0	0	0	0	0	1		
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
11.	Ground Water Abstraction/Restoration Charges paid (Rs.):							8639550.00							
12.	Environment Compensation (if applicable) paid (Rs.):							107764800.00							
13.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism							
								Manual	DWLR**	DWLR With Telemetry					
						2		0	1	1					
**DWLR - Digital Water Level Recorder															

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

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

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

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

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SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Receipt

(As per the MoJS guidelines dated 24.09.2020 vide SO No. 3289(E) and amendments dated 29.09.2023 vide SO No. 1509(E))
<https://cgwa-noc.gov.in>

Application No.:	21-4/2006/JH/MIN/2024	Date of Issuance:7/2/2025 1:00:13 PM
Name of Firm:	TASRA BLOCK (M/S STEEL AUTHORITY OF INDIA LTD.)	
AppType Category:	Coal	
Application Type:	Mining	
PAN/GSTIN No. of Firm/Individual:	AAACS7062F /	

SN	Description	Amount (Rs.)
1.	Application Processing Fee	10000.00
2.	Ground Water Abstraction charges	8639550.00
3.	Ground Water Restoration charges	0
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	107764800.00
5.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	100000.00
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	
S.No.	Description	Rate
(i)	Change in User ID	Rs. 5000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	
Rs. Rupees Eleven Crore Sixty Five Lakh Fourteen Thousand Three Hundred Fifty Only		116514350.00

This is an system generated invoice, hence, does not require ink signed.

Term and conditions:

- All disputes are subject to Delhi Jurisdiction.
- Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

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Annexure III

Key Well_GW Level Monitoring Locations				2025	
Sl. No.	Location	Latitude	Longitude	Aug-25 (mbgl)	Nov-25 (mbgl)
KW_GWL1	Rohrabandh	23.648331	86.482168	1.2	1.5
KW_GWL2	Near HP Petrol Pump	23.651322	86.479685	2.5	2.5
KW_GWL3	Tasra Shiv Mandir	23.650761	86.472043	1.4	3.5
KW_GWL4	Haadi Basti Road	23.650688	86.468499	1.1	3
KW_GWL5	Tasra Nutandih	23.652248	86.468055	1.3	1.5
KW_GWL6	Shiv Mandir Sheherpura	23.676957	86.490023	2.2	1.5
KW_GWL7	Bajrangbali Mandir ACC	23.671858	86.494577	2.4	2.5
KW_GWL8	Domgarh	23.649233	86.493179	1.8	2.5
KW_GWL9	Hetkandra	23.650036	86.462095	3.6	5
KW_GWL10	Chasnalla	23.661011	86.4548	2.1	4.5
KW_GWL11	Sarsakundi	23.644688	86.532896	2.4	3.4
KW_GWL12	Kalipur	23.660083	86.529809	3.8	5



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,
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 DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-01 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	ASANMANI COLONY (SARSAKUDI) (CORE ZONE)		
Sample Description	GROUND WATER		
Analysis Started on : 11/11/2025			
Date of Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	0.6	1	5
5.	Total Dissolved Solids mg/l,	454.6	500	2000
6.	pH Value	7.84	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	300	200	600
8.	Calcium (as Ca) mg/l,	212	75	200
9.	Magnesium (as Mg)mg/l,	21.12	30	100
10.	Copper (as Cu) mg/l,	0.086	0.05	1.5
11.	Iron (as Fe) mg/l	0.078	1.0	NR
12.	Manganese (as Mn) mg/l,	0.013	0.1	0.3
13.	Chlorides (as Cl) mg/l,	36	250	1000
14.	Sulphate (as SO ₄) mg/l	60	200	400
15.	Nitrate (as NO ₃) mg/l,	5.8	45	NR
16.	Fluoride (as F) mg/l	0.4	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	0.002	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.4	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.83	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	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



Quality 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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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

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: 09471152492, 09431512608

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-02 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	MUNKI NIWAS		
Sample Description	GROUND WATER		
Analysis Started on : 12/11/2025			
Date of Sample Collection	11/11/2025	Analysis completed on	15/11/2025
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	1.4	1	5
5.	Total Dissolved Solids mg/l,	785.8	500	2000
6.	pH Value	7.37	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	400	200	600
8.	Calcium (as Ca) mg/l,	124.8	75	200
9.	Magnesium (as Mg) mg/l,	21.12	30	100
10.	Copper (as Cu) mg/l,	0.097	0.05	1.5
11.	Iron (as Fe) mg/l	0.110	1.0	NR
12.	Manganese (as Mn) mg/l,	0.005	0.1	0.3
13.	Chlorides (as Cl) mg/l,	112.0	250	1000
14.	Sulphate (as SO ₄) mg/l	93	200	400
15.	Nitrate mg/l, (as NO ₃)	5.3	45	NR
16.	Fluoride (as F) mg/l	0.6	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	BDL	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	NT	0.05	NR
23.	Lead (As Pb) mg/l	NT	0.05	NR
24.	Zinc (as Zn) mg/l	2.6	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.92	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

Statements :

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 Phone: 0326-2952377 (O),
 Fax: 0326-2952377
 Mobile: 99431352492, 09431512608

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	HIGH SCHOOL PARASBANIA		
Sample Description	GROUND WATER		
Analysis Started on : 12/11/2025			
Date of Sample Collection	11/11/2025	Analysis completed on	15/11/2025
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	0.5	1	5
5.	Total Dissolved Solids mg/l,	339.2	500	2000
6.	pH Value	7.69	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	312	200	600
8.	Calcium (as Ca) mg/l,	60.8	75	200
9.	Magnesium (as Mg) mg/l,	38.4	30	100
10.	Copper (as Cu) mg/l,	0.082	0.05	1.5
11.	Iron (as Fe) mg/l	0.15	1.0	NR
12.	Manganese (as Mn) mg/l,	0.099	0.1	0.3
13.	Chlorides (as Cl) mg/l,	66.0	250	1000
14.	Sulphate (as SO ₄) mg/l	67	200	400
15.	Nitrate mg/l, (as NO ₃)	5.12	45	NR
16.	Fluoride (as F) mg/l	0.4	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	0.0013	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	N.T.	0.05	NR
23.	Lead (As Pb) mg/l	N.T.	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	N.T.	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.81	0.05	NR
27.	Mineral Oil mg/l,	N.T.	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-04 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	SARKARI HOSPITAL CHASNALLA		
Sample Description	GROUND WATER		
		Analysis Started on : 13/11/2025	
Date of Sample Collection	12/11/2025	Analysis completed on	16/11/2025
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	0.4	1	5
5.	Total Dissolved Solids mg/l,	392.4	500	2000
6.	pH Value	7.71	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	352	200	600
8.	Calcium (as Ca) mg/l,	152	75	200
9.	Magnesium (as Mg) mg/l,	48	30	100
10.	Copper (as Cu) mg/l,	0.074	0.05	1.5
11.	Iron (as Fe) mg/l	0.066	1.0	NR
12.	Manganese (as Mn) mg/l,	0.009	0.1	0.3
13.	Chlorides (as Cl) mg/l,	77.5	250	1000
14.	Sulphate (as SO ₄) mg/l	34	200	400
15.	Nitrate mg/l, (as NO ₃)	5.6	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,	0.0016	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	1.02	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

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Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-05 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	Bhojudih Jharna Basti		
Sample Description	GROUND WATER		
Analysis Started on : 15/11/2025			
Date of Sample Collection	14/11/2025	Analysis completed on	18/11/2025
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	0.2	1	5
5.	Total Dissolved Solids mg/l,	186.2	500	2000
6.	pH Value	7.8	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	176	200	600
8.	Calcium (as Ca) mg/l,	136	75	200
9.	Magnesium (as Mg) mg/l,	10	30	100
10.	Copper (as Cu) mg/l,	0.048	0.05	1.5
11.	Iron (as Fe) mg/l	0.052	1.0	NR
12.	Manganese (as Mn) mg/l,	0.010	0.1	0.3
13.	Chlorides (as Cl) mg/l,	16	250	1000
14.	Sulphate (as SO ₄) mg/l	22	200	400
15.	Nitrate mg/l, (as NO ₃)	5.4	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,	N.T.	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.6	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.79	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF PIT WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/PW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample Collection TASRA PROJECT PIT WATER		Analysis Started on	11/11/2025
Date & Time Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	2.3	1	5
5.	Total Dissolved Solids mg/l,	717	500	2000
6.	pH Value	8.3	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	212	200	600
8.	Calcium (as Ca) mg/l,	146	75	200
9.	Magnesium (as Mg)mg/l,	13	30	100
10.	Copper (as Cu) mg/l,	0.052	0.05	1.5
11.	Iron (as Fe) mg/l	0.03	1.0	NR
12.	Manganese (as Mn) mg/l,	0.02	0.1	0.3
13.	Chlorides (as Cl) mg/l,	17	250	1000
14.	Sulphate (as SO ₄) mg/l	26	200	400
15.	Nitrate mg/l, (as NO ₃)	5.1	45	NR
16.	Fluoride (as F) mg/l	0.1	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	N.T.	0.001	0.002
18.	Mercury (as Hg)mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.84	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF BORING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	OPEN CAST TASRA MINING		
Sample Description	BORING WATER		
Analysis Started on : 11/11/2025			
Date of Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	0.6	1	5
5.	Total Dissolved Solids mg/l,	409	500	2000
6.	pH Value	7.9	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	340	200	600
8.	Calcium (as Ca) mg/l,	260	75	200
9.	Magnesium (as Mg) mg/l,	19.2	30	100
10.	Copper (as Cu) mg/l,	0.093	0.05	1.5
11.	Iron (as Fe) mg/l	0.067	1.0	NR
12.	Manganese (as Mn) mg/l,	0.007	0.1	0.3
13.	Chlorides (as Cl) mg/l,	119.96	250	1000
14.	Sulphate (as SO ₄) mg/l	96	200	400
15.	Nitrate mg/l, (as NO ₃)	5.0	45	NR
16.	Fluoride (as F) mg/l	0.3	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	BDL	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	N.T.	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.7	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.89	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF SURFACE WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT	
ARDS/25-26/SW-01 Dt. 19/11/2025		TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA - 828135, DIST. - DHANBAD	
P.O. NO. & Date		6000036592 & Date : 29.01.2024	
Location of Sample Collection UPSTREAM OF DAMODAR RIVER		Analysis Started on	15/11/2025
Date & Time Sample Collection	14/11/2025	Analysis completed on	18/11/2025
Test Procedure		IS:3025	
TEST RESULT			
Sl. No.	Parameters	Value	(IS :2296) Surface Water Class "C" Tolerance Limit
1.	Colour Hazen units	1	300 (Max.)
2.	Dissolved Oxygen, mg/l	6.0	4 (Min.)
3.	B.O.D. (3 days at 27°C) mg/l	2.8	3 (Max.)
4.	Total Dissolved Solids mg/l, Max	382	1500 (Max.)
5.	pH Value	8.37	6.5 - 8.5
6.	Conductivity (µs/CM)	490	-
7.	Turbidity (NTU)	0.8	-
8.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	B.D.L	0.005 (Max.)
9.	Oil and grease, mg/l	4.2	0.1 (Max.)
10.	C.O.D., mg/l	30.0	-
11.	Total Suspended Solids , mg/l	10	-

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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF SURFACE WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date		NAME AND ADDRESS OF THE CLIENT	
ARDS/25-26/SW-02 Dt. 19/11/2025		TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD	
P.O. NO. & Date		6000036592 & Date : 29.01.2024	
Location of Sample Collection DOWNSTREAM OF DAMODAR RIVER		Analysis Started on	11/11/2025
Date & Time Sample Collection	10/11/2025	Analysis completed on	14/11/2025
Test Procedure		IS:3025	
TEST RESULT			
Sl. No.	Parameters	Value	(IS :2296) Surface Water Class "C" Tolerance Limit
1.	Colour Hazen units	1	300 (Max.)
2.	Dissolved Oxygen, mg/l	6.4	4 (Min.)
3.	B.O.D. (3 days at 27°C) mg/l	3.0	3 (Max.)
4.	Total Dissolved Solids mg/l, Max	397	1500 (Max.)
5.	pH Value	8.41	6.5 – 8.5
6.	Conductivity (µs/CM)	450	–
7.	Turbidity (NTU)	0.9	–
8.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	BDL	0.005 (Max.)
9.	Oil and grease, mg/l	5.2	0.1 (Max.)
10.	C.O.D., mg/l	36.0	-
11.	Total Suspended Solids , mg/l	14	-

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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-01 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	ASANMANI COLONY (SARSAKUDI) (CORE ZONE)		
Sample Description	GROUND WATER		
Analysis Started on : 11/11/2025			
Date of Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	0.6	1	5
5.	Total Dissolved Solids mg/l,	454.6	500	2000
6.	pH Value	7.84	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	300	200	600
8.	Calcium (as Ca) mg/l,	212	75	200
9.	Magnesium (as Mg)mg/l,	21.12	30	100
10.	Copper (as Cu) mg/l,	0.086	0.05	1.5
11.	Iron (as Fe) mg/l	0.078	1.0	NR
12.	Manganese (as Mn) mg/l,	0.013	0.1	0.3
13.	Chlorides (as Cl) mg/l,	36	250	1000
14.	Sulphate (as SO ₄) mg/l	60	200	400
15.	Nitrate (as NO ₃) mg/l,	5.8	45	NR
16.	Fluoride (as F) mg/l	0.4	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	0.002	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.4	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.83	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	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



Quality Manager
 Aditi R&D Services, Sindri

Statements :

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

Plot No. - I-B-17 (P)
 Sindri, Industrial Area,
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 Fax: 0326-2952377
 Mobile: 09471155492, 09431512608

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-02 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	MUNKI NIWAS		
Sample Description	GROUND WATER		
Analysis Started on : 12/11/2025			
Date of Sample Collection	11/11/2025	Analysis completed on	15/11/2025
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	1.4	1	5
5.	Total Dissolved Solids mg/l,	785.8	500	2000
6.	pH Value	7.37	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	400	200	600
8.	Calcium (as Ca) mg/l,	124.8	75	200
9.	Magnesium (as Mg) mg/l,	21.12	30	100
10.	Copper (as Cu) mg/l,	0.097	0.05	1.5
11.	Iron (as Fe) mg/l	0.110	1.0	NR
12.	Manganese (as Mn) mg/l,	0.005	0.1	0.3
13.	Chlorides (as Cl) mg/l,	112.0	250	1000
14.	Sulphate (as SO ₄) mg/l	93	200	400
15.	Nitrate mg/l, (as NO ₃)	5.3	45	NR
16.	Fluoride (as F) mg/l	0.6	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	BDL	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	NT	0.05	NR
23.	Lead (As Pb) mg/l	NT	0.05	NR
24.	Zinc (as Zn) mg/l	2.6	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.92	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

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Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	HIGH SCHOOL PARASBANIA		
Sample Description	GROUND WATER		
Analysis Started on : 12/11/2025			
Date of Sample Collection	11/11/2025	Analysis completed on	15/11/2025
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	0.5	1	5
5.	Total Dissolved Solids mg/l,	339.2	500	2000
6.	pH Value	7.69	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	312	200	600
8.	Calcium (as Ca) mg/l,	60.8	75	200
9.	Magnesium (as Mg) mg/l,	38.4	30	100
10.	Copper (as Cu) mg/l,	0.082	0.05	1.5
11.	Iron (as Fe) mg/l	0.15	1.0	NR
12.	Manganese (as Mn) mg/l,	0.099	0.1	0.3
13.	Chlorides (as Cl) mg/l,	66.0	250	1000
14.	Sulphate (as SO ₄) mg/l	67	200	400
15.	Nitrate mg/l, (as NO ₃)	5.12	45	NR
16.	Fluoride (as F) mg/l	0.4	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	0.0013	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	N.T.	0.05	NR
23.	Lead (As Pb) mg/l	N.T.	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	N.T.	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.81	0.05	NR
27.	Mineral Oil mg/l,	N.T.	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-04 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	SARKARI HOSPITAL CHASNALLA		
Sample Description	GROUND WATER		
Analysis Started on : 13/11/2025			
Date of Sample Collection	12/11/2025	Analysis completed on	16/11/2025
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	0.4	1	5
5.	Total Dissolved Solids mg/l,	392.4	500	2000
6.	pH Value	7.71	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	352	200	600
8.	Calcium (as Ca) mg/l,	152	75	200
9.	Magnesium (as Mg) mg/l,	48	30	100
10.	Copper (as Cu) mg/l,	0.074	0.05	1.5
11.	Iron (as Fe) mg/l	0.066	1.0	NR
12.	Manganese (as Mn) mg/l,	0.009	0.1	0.3
13.	Chlorides (as Cl) mg/l,	77.5	250	1000
14.	Sulphate (as SO ₄) mg/l	34	200	400
15.	Nitrate mg/l, (as NO ₃)	5.6	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,	0.0016	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	1.02	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF DRINKING WATER FOR THE MONTH OF NOVEMBER 2025

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Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-05 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	Bhojudih Jharna Basti		
Sample Description	GROUND WATER		
Analysis Started on : 15/11/2025			
Date of Sample Collection	14/11/2025	Analysis completed on	18/11/2025
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	0.2	1	5
5.	Total Dissolved Solids mg/l,	186.2	500	2000
6.	pH Value	7.8	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	176	200	600
8.	Calcium (as Ca) mg/l,	136	75	200
9.	Magnesium (as Mg) mg/l,	10	30	100
10.	Copper (as Cu) mg/l,	0.048	0.05	1.5
11.	Iron (as Fe) mg/l	0.052	1.0	NR
12.	Manganese (as Mn) mg/l,	0.010	0.1	0.3
13.	Chlorides (as Cl) mg/l,	16	250	1000
14.	Sulphate (as SO ₄) mg/l	22	200	400
15.	Nitrate mg/l, (as NO ₃)	5.4	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,	N.T.	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.6	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.79	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF PIT WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/PW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample Collection TASRA PROJECT PIT WATER		Analysis Started on	11/11/2025
Date & Time Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	2.3	1	5
5.	Total Dissolved Solids mg/l,	717	500	2000
6.	pH Value	8.3	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	212	200	600
8.	Calcium (as Ca) mg/l,	146	75	200
9.	Magnesium (as Mg) mg/l,	13	30	100
10.	Copper (as Cu) mg/l,	0.052	0.05	1.5
11.	Iron (as Fe) mg/l	0.03	1.0	NR
12.	Manganese (as Mn) mg/l,	0.02	0.1	0.3
13.	Chlorides (as Cl) mg/l,	17	250	1000
14.	Sulphate (as SO ₄) mg/l	26	200	400
15.	Nitrate mg/l, (as NO ₃)	5.1	45	NR
16.	Fluoride (as F) mg/l	0.1	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	N.T.	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se) mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	BDL	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.8	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁶⁺) mg/l	0.84	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF BORING WATER FOR THE MONTH OF NOVEMBER 2025

Ref. No. & Date	NAME AND ADDRESS OF THE CLIENT		
ARDS/25-26/DW-03 Dt. 19/11/2025	TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD		
P.O. NO. & Date	6000036592 & Date : 29.01.2024		
Location of Sample	OPEN CAST TASRA MINING		
Sample Description	BORING WATER		
Analysis Started on : 11/11/2025			
Date of Sample Collection	10/11/2025	Analysis completed on	14/11/2025
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	0.6	1	5
5.	Total Dissolved Solids mg/l,	409	500	2000
6.	pH Value	7.9	6.5 to 8.5	6.5 to 8.5
7.	Total Hardness (as CaCO ₃) mg/l,	340	200	600
8.	Calcium (as Ca) mg/l,	260	75	200
9.	Magnesium (as Mg) mg/l,	19.2	30	100
10.	Copper (as Cu) mg/l,	0.093	0.05	1.5
11.	Iron (as Fe) mg/l	0.067	1.0	NR
12.	Manganese (as Mn) mg/l,	0.007	0.1	0.3
13.	Chlorides (as Cl) mg/l,	119.96	250	1000
14.	Sulphate (as SO ₄) mg/l	96	200	400
15.	Nitrate mg/l, (as NO ₃)	5.0	45	NR
16.	Fluoride (as F) mg/l	0.3	1.0	1.5
17.	Phenolic Compounds (as C ₆ H ₅ OH) mg/l,	BDL	0.001	0.002
18.	Mercury (as Hg) mg/l,	BDL	0.001	NR
19.	Cadmium (as Cd) mg/l,	BDL	0.01	NR
20.	Selenium (as Se mg/l,	BDL	0.01	NR
21.	Arsenic (as As) mg/l,	BDL	0.01	0.05
22.	Cyanide (as Cn) mg/l,	N.T.	0.05	NR
23.	Lead (As Pb) mg/l	BDL	0.05	NR
24.	Zinc (as Zn) mg/l	2.7	5.0	15
25.	Anionic detergents (as MBAS), mg/l,	BDL	0.2	1.0
26.	Chromium (as Cr ⁺⁶) mg/l	0.89	0.05	NR
27.	Mineral Oil mg/l,	BDL	0.01	NR
28.	Residual, free chlorine mg/l,	N.T.	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



Quality Manager
Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

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 Mobile: 09471358492, 09431512608

Ref. No. & Date					NAME AND ADDRESS OF THE CLIENT				
ARDS/25-26/NOISE Date: 19/11/2025					TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD				
Date of Monitoring									
10/11/2025 to 14/11/2025					Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant	
P.O : 6000036592 & Date : 29.01.2024					33	54	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. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
								Day Time	Night Time
LOCATION		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq	Residential Area	Residential Area
BUFFER ZONE									
1.	NEW COLONY (L8) ASHANBANI.	60.6	54.3	58.5	50.2	48.3	49.35	55	45
2.	MUNKI NIWAS (L5) RANGAMATI.	57.8	52.6	48.6	48.6	44.8	47.1		
3.	B.B.M COLLEGE BALIAPUR	46.9	44.5	47.83	52.0	53.4	52.76		
4.	NEAR KALIMANDIR BHOJUDIH	46.2	48.6	47.56	53.6	50.2	52.22		
5.	Asanmani Colony	52.6	54.2	53.47	51.2	52.3	51.78		
								Commercial Area	Commercial Area
6.	GM OFFICE (L11) CHASNALLA	65.7	60.3	54.8	54.8	50.7	47.1	65	55
7.	Upar kandra Middle School (Sarkari)	55.6	54.2	54.96	50.6	52.3	51.53		


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 Quality Manager
 Aditi R&D Services, Sindri

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TEST REPORT OF NOISE (AMBIENT) LEVEL MONITORING

Ref. No. & Date					NAME AND ADDRESS OF THE CLIENT				
ARDS/25-26/NOISE Date: 19/11/2025					TASRA COAL MINING PROJECT, COLLIERIES DIVISION, STEEL AUTHORITY OF INDIA LTD. CHASNALLA – 828135, DIST. - DHANBAD				
Date of Monitoring									
10/11/2025 to 11/11/2025					Avg. Ambient Temperature (°C)	Average Humidity (%)	Weather Condition	Status of the plant	
P.O : 6000036592 & Date : 29.01.2024					33	54	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. 1046(E) Dt. 22.11.2020 Limit in dB(A) Leq	
								Day Time	Night Time
LOCATION		MAX	MIN	AVG. dB(A) Leq	MAX	MIN	AVERAGE dB(A) Leq		
CORE ZONE								Industrial Area	Industrial Area
8.	NEAR TASRA SIDE OFFICE KTMLP (L1)	68.2	65.8	67.16	58.7	54.2	54.2	75	70
9.	BIT Sindri (L3)	58.6	53.8	56.83	49.6	47.8	47.8		
10.	NEAR FCIL OFFICE. (L2)	60.4	58.2	59.44	50.2	46.6	46.6		

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Ref. No.: - ARDS/25-26/AAQ/1

Date: 19/11/2025

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 : 13/11/2025 – 14/11/2025
- Date of Testing : 15/11/2025 – 17/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : NEAR BIT HOSTEL.

TEST RESULTS

SI No.	L3			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	SAMPLING LOCATION NEAR BIT HOSTEL	
	33	54		
1.	Particulate Matter (PM ₁₀), µg/m³		68.32	100 µg/m³
2.	Particulate Matter (PM _{2.5}), µg/m³		52.86	60 µg/m³
3.	SO ₂ , µg/m³		22.18	80 µg/m³
4.	NO ₂ , µg/m³		28.65	80 µg/m³
5.	NH ₃ , µg/m³		20.62	400 µg/m³
6.	CO, mg/m³		0.86	4 mg/m³
7.	Pb, µg/m³		BDL	1 µg/m³
8.	As, ng/m³		BDL	6ng/m³
9.	Ni, ng/m³		BDL	20ng/m³
10.	Benzene, µg/m³		BDL	5 µg/m³
11.	Benzoapyrene, ng/m³		BDL	1ng/m³
12.	Ozone, µg/m³		24.70	180 µg/m³

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Ref. No.: - ARDS/25-26/AAQ/2

Date: 19/11/2025

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 : 10/11/2025 to 11/11/2025
- Date of Testing : 12/11/2025 to 14/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : KT MPL SITE OFFICE

TEST RESULTS

SI No.	L1		NAAQ - CPCB STANDARD	
	Avg. Ambient Temperature	Average Relative Humidity (%)		Sampling Location KT MPL SITE OFFICE
	34	46		
1.	Particulate Matter (PM ₁₀), µg/m ³	78.34	100 µg/m ³	
2.	Particulate Matter (PM _{2.5}), µg/m ³	50.78	60 µg/m ³	
3.	SO ₂ , µg/m ³	24.20	80 µg/m ³	
4.	NO ₂ , µg/m ³	30.65	80 µg/m ³	
5.	NH ₃ , µg/m ³	24.13	400 µg/m ³	
6.	CO, mg/m ³	0.98	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.	Benzoapyrene, ng/m ³	BDL	1ng/m ³	
12.	Ozone, µg/m ³	24.6	180 µg/m ³	

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Ref. No.: - ARDS/25-26/AAQ/3

Date: 19/11/2025

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 11/11/2025 – 12/11/2025
- Date of Testing : 13/11/2025 – 15/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : B.B.M COLLEGE BALIAPUR

TEST RESULTS

	L7			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location (B.B.M COLLEGE BALIAPUR)	
	34	52		
SI No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		60.86	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		46.42	60 µg/m ³
3.	SO ₂ , µg/m ³		22.65	80 µg/m ³
4.	NO ₂ , µg/m ³		23.80	80 µg/m ³
5.	NH ₃ , µg/m ³		18.86	400 µg/m ³
6.	CO, mg/m ³		0.74	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		24.82	180 µg/m ³

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Ref. No.: - ARDS/25-26/AAQ/4

Date: 19/11/2025

TEST REPORT OF AMBIENT AIR QUALITY

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 13/11/2025 – 14/11/2025
- Date of Testing : 15/11/2025 – 17/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : Upar kandra Middle School (Sarkari)

TEST RESULTS

Sl No.	L4			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location	
	33	54	Upar kandra Middle School (Sarkari)	
Sl No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		65.76	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		52.68	60 µg/m ³
3.	SO ₂ , µg/m ³		21.42	80 µg/m ³
4.	NO ₂ , µg/m ³		29.88	80 µg/m ³
5.	NH ₃ , µg/m ³		21.78	400 µg/m ³
6.	CO, mg/m ³		0.88	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		23.62	180 µg/m ³

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Ref. No.: - ARDS/25-26/AAQ/5

Date: 19/11/2025

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 10/11/2025 – 11/11/2025
- Date of Testing : 12/11/2025 – 13/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : G.M. OFFICE CHASNALLA

TEST RESULTS

SI No.	L5			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location G.M. OFFICE CHASNALLA	
	35	47		
Particulars	Value			
1.	Particulate Matter (PM ₁₀), µg/m ³		65.80	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		58.16	60 µg/m ³
3.	SO ₂ , µg/m ³		23.24	80 µg/m ³
4.	NO ₂ , µg/m ³		30.18	80 µg/m ³
5.	NH ₃ , µg/m ³		23.78	400 µg/m ³
6.	CO, mg/m ³		0.96	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		23.85	180 µg/m ³

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Date: 19/11/2025

TEST REPORT OF AMBIENT AIR QUALITY

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 11/11/2025 – 12/11/2025
- Date of Testing : 13/11/2025 – 15/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : HIGH SCHOOL PARSHBANIA VILLAGE

TEST RESULTS

	L6			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location HIGH SCHOOL PARSABEDA VILLAGE	
	33	55		
SI No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		61.73	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		24.87	60 µg/m ³
3.	SO ₂ , µg/m ³		12.73	80 µg/m ³
4.	NO ₂ , µg/m ³		23.64	80 µg/m ³
5.	NH ₃ , µg/m ³		22.18	400 µg/m ³
6.	CO, mg/m ³		0.72	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		24.64	180 µg/m ³

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Ref. No.: - ARDS/25-26/AAQ/7

Date: 19/11/2025

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 12/11/2025 – 13/11/2025
- Date of Testing : 14/11/2025 – 16/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : R&R COLONY ASANBANI

TEST RESULTS

	L8			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location R&R COLONY ASANBANI	
	33	58		
SI No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		60.72	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		50.39	60 µg/m ³
3.	SO ₂ , µg/m ³		12.76	80 µg/m ³
4.	NO ₂ , µg/m ³		28.58	80 µg/m ³
5.	NH ₃ , µg/m ³		21.28	400 µg/m ³
6.	CO, mg/m ³		0.76	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		24.24	180 µg/m ³

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Ref. No.: - ARDS/25-26/AAQ/8

Date: 19/11/2025

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- Work Order P.O. NO. & Date: 6000036592 & Date: 29.01.2024
- Date of Sample Collection : 11/11/2025 – 12/11/2025
- Date of Testing : 13/11/2025 – 15/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : MUNKI NIWAS RANGAMATI.

TEST RESULTS

	L11			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location MUNKI NIWAS RANGAMATI	
	35	48		
SI No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		60.78	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		50.60	60 µg/m ³
3.	SO ₂ , µg/m ³		21.45	80 µg/m ³
4.	NO ₂ , µg/m ³		29.34	80 µg/m ³
5.	NH ₃ , µg/m ³		24.72	400 µg/m ³
6.	CO, mg/m ³		1.06	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		22.85	180 µg/m ³

Sr. Chemist
Aditi R&D Services



Quality Manager
Aditi R&D Services, Sindri

Statements :

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- 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

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.: - ARDS/25-26/AAQ/9

Date: 19/11/2025

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 : 10/11/2025 – 11/11/2025
- Date of Testing : 12/11/2025 – 14/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : FCIL OFFICE (INSIDE FCI)

TEST RESULTS

SI No.	L2			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location FCIL OFFICE (INSIDE FCI)	
	33	55		
1.	Particulate Matter (PM ₁₀), µg/m ³		62.38	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		50.72	60 µg/m ³
3.	SO ₂ , µg/m ³		20.84	80 µg/m ³
4.	NO ₂ , µg/m ³		28.06	80 µg/m ³
5.	NH ₃ , µg/m ³		29.6	400 µg/m ³
6.	CO, mg/m ³		0.98	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		23.16	180 µg/m ³

Sr. Chemist
Aditi R&D Services



Quality Manager
Aditi R&D Services, Sindri

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Testing Laboratory

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

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Jharkhand - 828107
Email ID: sindriaditi@gmail.com
Website: aditimdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/AAQ/10

Date: 19/11/2025

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 : 13/11/2025 – 14/11/2025
- Date of Testing : 15/11/2025 – 17/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : ADITI R&D SERVICES, DOMGARH

TEST RESULTS

	L10			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location (ADITI R&D SERVICES, DOMGARH)	
	35	45		
Sl No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		58.38	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		49.74	60 µg/m ³
3.	SO ₂ , µg/m ³		20.08	80 µg/m ³
4.	NO ₂ , µg/m ³		28.62	80 µg/m ³
5.	NH ₃ , µg/m ³		23.46	400 µg/m ³
6.	CO, mg/m ³		0.82	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		23.4	180 µg/m ³

Sr. Chemist
Aditi R&D Services



Quality Manager
Aditi R&D Services, Sindri

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Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/AAQ/11

Date: 19/11/2025

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 : 12/11/2025 – 13/11/2025
- Date of Testing : 14/11/2025 – 16/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : FCIL GUEST HOUSE

TEST RESULTS

SI No.	L9			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location	
	33	54	FCIL GUEST HOUSE	
Particulars	Value			
1. Particulate Matter (PM ₁₀), µg/m ³	66.38			100 µg/m ³
2. Particulate Matter (PM _{2.5}), µg/m ³	54.62			60 µg/m ³
3. SO ₂ , µg/m ³	21.66			80 µg/m ³
4. NO ₂ , µg/m ³	29.32			80 µg/m ³
5. NH ₃ , µg/m ³	24.82			400 µg/m ³
6. CO, mg/m ³	0.83			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. Benzoapyrene, ng/m ³	BDL			1ng/m ³
12. Ozone, µg/m ³	23.16			180 µg/m ³

Sr. Chemist
Aditi R&D Services



Quality Manager
Aditi R&D Services, Sindri

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ADITI R&D SERVICES

Testing Laboratory

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Jharkhand - 828107
Email ID: sindriaditi@gmail.com
Website: aditimdservices.com
Phone: 0326-2952377 (O),
Fax: 0326-2952377
Mobile: 09471358492, 09431512608

Ref. No.: - ARDS/25-26/AAQ/12

Date: 19/11/2025

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 : 14/11/2025 – 15/11/2025
- Date of Testing : 16/11/2025 – 18/11/2025
- Test Procedure : As per IS - 5182
- Sampling Location : NEAR KALIMANDIR BHOJUDIH

TEST RESULTS

Sl No.	L12			NAAQ - CPCB STANDARD
	Avg. Ambient Temperature	Average Relative Humidity (%)	Sampling Location NEAR KALIMANDIR BHOJUDIH	
	35	45		
Si No.	Particulars		Value	
1.	Particulate Matter (PM ₁₀), µg/m ³		64.60	100 µg/m ³
2.	Particulate Matter (PM _{2.5}), µg/m ³		51.12	60 µg/m ³
3.	SO ₂ , µg/m ³		20.33	80 µg/m ³
4.	NO ₂ , µg/m ³		29.48	80 µg/m ³
5.	NH ₃ , µg/m ³		24.12	400 µg/m ³
6.	CO, mg/m ³		1.06	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.	Benzoapyrene, ng/m ³		BDL	1ng/m ³
12.	Ozone, µg/m ³		22.87	180 µg/m ³

Sr. Chemist
Aditi R&D Services








Quality Manager
Aditi R&D Services, Sindri

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Sl. No.	Date	Location	Photographs	
			Start	End
L1	06/06/2025	ADITI R&D SERVICES, DOMGARH		
L2	07/06/2025	B.B.M COLLEGE BALIAPUR		

Sl. No.	Date	Location	Photographs	
			Start	End
L3	05/06/2025	BIT HOSTEL		
L4	03/06/2025	G.M. OFFICE CHASNALLA		

Sl. No.	Date	Location	Photographs	
			Start	End
L5	05/06/2025	HIGH SCHOOL PARASHBANIA VILLAGE		
L6	03/06/2025	KT MPL SITE OFFICE TASRA		

L7	06/06/2025	LAGLAGRAM BHOJUDIH		
L8	05/06/2025	MOTINAGAR POST OFFICE CAMPUS		

L9	03/06/2025	MUNKI NIWAS RANGAMATI	 <p>सिंदरी, झारखंड, भारत 85°29'704, 83°48' 000 000, 83°48' 000 000 Lat 23.8888888° Long 86.8000000° 04/06/2025 03:30 PM GMT +05:30</p>	 <p>सिंदरी, झारखंड, भारत 85°29'704, 83°48' 000 000, 83°48' 000 000 Lat 23.8888888° Long 86.8000000° 04/06/2025 03:30 PM GMT +05:30</p>
L10	04/06/2025	OFFICER CLUB SINDRI ROHRABAND	 <p>सिंदरी, झारखंड, भारत 85°29'704, 83°48' 000 000, 83°48' 000 000 Lat 23.8888888° Long 86.8000000° 04/06/2025 03:30 PM GMT +05:30</p>	 <p>Sindri, Jharkhand, India 85°29'704, 83°48' 000 000, 83°48' 000 000 Lat 23.8888888° Long 86.8000000° 04/06/2025 03:30 PM GMT +05:30</p>

L11	05/06/2025	R&R COLONY ASANBANI		
L12	04/06/2025	FCIL OFFICE		

Annexure IV



Glimpses of World Environment Day 2025

Annexure V



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-20527126/2025/189

Dated : 2025-03-21

**Consent to Establish (CTE) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974
and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981**

1. Reference: Application (s) No.- 20527126 / dated : 05/12/2024 of Tasra Coking Coal Washery Plant , SIBARAM BANERJEE for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

2. Documents Relied Upon:

(a) The content of Environmental Clearance vide File No. J-11015/122/2007-IA.II(M), dated 14.11.2024 issued by MoEF and CC, New Delhi for Coal Washery- 3.5 MTPA.

(b) The content of Environmental Clearance issued vide Ref. No. J- 11015/122/2007-IA.II(M) dated 13.10.2009 from MoEF, Govt. of India, New Delhi for Coal mining.

(c) The content of Consent-to-Establish (CTE), Ref No. LN-96 dated 29.10.2009 for the production of Coal – 4 MTPA in Mauza -Rohrabandh, Tasra, Kandra , P S -Goshala , District -Dhanbad.

(d) The content of Consent to Operate (CTO), vide ref. no. JSPCB/HO/RNC/CTO-15663289/2023/1161, dated 28.06.2023 for the production of Coal – 4 MTPA valid upto 31.12.2026.

(e) The content of letter of Division Forest Officer vide letter no. 1152, dated 03.05.2024.

(f) The content of self declaration stating that source of raw material i.e. coking coal will be used from captive Tasra Coal Mine.

(g) The content of check-list vide ref. no. 1801, dated 29.11.2024 issued by Regional Officer, Regional Office, JSPCB, Dhanbad.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- Rohrabandh, P S -FCIL Sindri Dhanbad, District-DHANBAD as follows:

Project	Site-Area		Investment (Rs)/ Year	Product & Capacity	Period of CTE
	Plot Nos.	Area			
Before Expansion	As per EC	As per EC	93,900 Lacs [as per EC]	Coal Washery throughput ROM- 3.5 MTPA	As per EC

(A) Specific Conditions:

1. That, the occupier shall operate, upgrade and maintain the pollution control devices such as water sprinkling system wherever necessary to control fugitive dust emission from haul roads, transportation, loading and unloading etc.
2. That, the occupier shall construct and maintain the rain water harvesting arrangement in proper way.
3. That, the occupier shall construct haul road pucca.
4. That, the occupier shall operate and maintain fixed type water sprinkling arrangement.
5. That, the occupier shall install, operate and maintain crushers at CHP with high efficiency bag filters, water sprinkling system to check fugitive emission.
6. That, the occupier shall install, operate and maintain the ETP for workshop, coal washery & CHP waste water
7. That, the occupier shall maintain zero effluent discharge in the plant.
8. That, the vehicle movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High pressure horn shall be prohibited. Smokes emission from heavy duty vehicle operation in the coal washeries should conform the standards prescribed under the Motor Vehicle Rules, 1989.
9. That, the water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps.
10. That, the occupier shall make arrangement to control fugitive emission caused due to transportation of coal.
11. That, the occupier shall construct garland drain all along the reject coal dumped/tailings followed by pond and shall do its evacuation and maintain properly.
12. That, the ambient air quality standards in respect of noise as notified under the Environmental (Protection) Rules, 1986, shall be followed at the boundary line of the coal washery.
13. That, the water or water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading, unloading points, etc. As far as practically possible conveyors, transfer points, etc, shall be provided with enclosures.

14. That, the crushers/pulverisers of the coal washeries shall be provided with enclosures, fitted with suitable air pollution control measures and finally emitted through a stack of minimum height of 30 m, conforming particulate matter emission standard of 150 mg/N cubic meter or provided with adequate water sprinkling arrangement.
15. That, the efficiency of the settling ponds of the waste water treatment system of the coal washery shall not be less than 90 per cent.
16. That, the green belt be developed along the road side, coal, handling plants, residential complex, office building and all around the boundary line of the coal washery.
17. That, the storage bunkers, hoppers, rubber decks in chutes and centrifugal chutes shall be provided with proper rubber linings.
18. That, the occupier shall assure compliance of code of conduct for washery units and submit the report with evidentiary proof.
19. That, the occupier shall install, operate and maintain the CAAQMS and PM 10 analyzer having CPCB approved technology and US EPA certification with data transmission facility of CPCB and JSPCB server uninterruptedly.
20. That, the occupier shall comply all the conditions of EC and submit its compliance report to the Board and in other organizations with all statutory compliances.
21. That, the occupier shall submit compliance of this CTE conditions at the time of application made for CTO.
22. That, the occupier shall submit copy of analysis reports accredited by JSPCB laboratory at the time of CTO application, failing which application for CTO may not be considered.

(B) General Conditions :

- (1) That, the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat and clean and tidy.
- (2) That, the occupier shall install comprehensive enclosure (s) to cover the places of unloading of raw materials, the equipments of their processing & transferring, the places of loading of products, by products and wastes for prevention of fugitive emission and shall install such automatic inbuilt system(s) that in house dust/ gases collect(s) and undergo (es) cleaning and clean air goes out.
- (3) That, the occupier shall install such automatic inbuilt system(s) that process flue gas(es) / process gas(es) and undergo(es) cleaning and clean air go(es) out through the chimney(s), having height(s) as per Central Pollution Control Board norm.

(4) That, the occupier shall have D G Set(s) of the standard as laid in the Environment (protection) Rules, 1986 and shall install it (them) within acoustic enclosure (s) and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm .

(5) That, the occupier shall impart treatment as per Central Pollution Control Board text to wastewater and shall keep process effluent in close-circuit and effluent from other sources in conformity with the standard (s).

(6) That, the occupier shall install Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge.

(7) That, the occupier shall create new water body (ies) / remove deposit(s) of existing water body(ies) and nearby stream(s) and pond(s) and shall maintain the wholesomeness of water.

(8) That, the occupier shall grow greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(9) That, this CTE is valid subjected to the validity of mining Lease / Mining Plan / Ecofriendly / Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(10) That, this CTE is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time being in force, rests with the industry/ unit/ occupier.

(11) That, this CTE shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(12) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules there under.

4. **That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.**
6. **This order shall be valid subject to compliance of all other legal requirements applicable to the unit.**
7. **The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.**

This is issued with the approval of the competent authority

Rajeev
Lochan
Bakshi

Digitally signed
by Rajeev
Lochan Bakshi
Date: 2025.03.21
12:00:53 +05'30'

[R. L. Bakshi]
Member Secretary

Memo No. : JSPCB/HO/RNC/CTE-
20527126/2025/189

Dated : 2025-03-21

Copy to : M/s Tasra Coking Coal Washery Plant, At- FICL Campus Sindri, Dhanbad/ Director of Industry, Government of Jharkhand, Ranchi/ Deputy Commissioner, Dhanbad/ Director of Mines, Government of Jharkhand, Ranchi/ Chief Inspector of Factories, Ranchi/ DFO, Dhanbad/ DMO, Dhanbad/ R O, JSPCB, Dhanbad for information & ensuring compliance of the above.

Rajeev
Lochan
Bakshi

Digitally signed
by Rajeev Lochan
Bakshi
Date: 2025.03.21
12:01:08 +05'30'

[R. L. Bakshi]
Member Secretary

Annexure VI



JHARKHAND STATE POLLUTION CONTROL BOARD
T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004
Phone.:2400852, 2400851, Fax:0651- 2400850 www.jspcb.org

FORM 2
[See rule 6(2)]

**FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION
CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER
AND OPERATORS OF DISPOSAL FACILITIES**

1. No. of authorization and date of issue: JSPCB/HO/RNC/HWM-15306830/2024/52 28/06/2024
2. Reference of application(No. and date): 15306830 16/01/2023
3. **Tasra Coal Mining Project** of TARUN KANTI ROY is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Tasra Opencast Project Collieries Division SAIL PO Chasnalla Dhanbad

Details of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Cat-I; Used/Spent Oil	Kept in MS Drums	20 KL/Annum
2	Cat-I; Wastes/residues containing oil	Stored at earmarked area; Lubrication and Maintenance of HEMM	1000 TPA
3	Cat-I; Discarded containers/barrels/liners contaminated with hazardous wastes/chemicals	Stored at earmarked area	2000 TPA

(1) The authorisation shall be valid for a period of Date of issue to 31.12.2027 years

(2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A General conditions of authorisation:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.

3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B Specific conditions:

1. That, the occupier shall take prior permission of the Board to close down the plant.
2. That, the renewal of authorization will be subject to compliance of the conditions laid down in this authorization.
3. That, the occupier shall comply with the conditions as per the guidelines prescribed by the MoEF for CPCB.
4. That, the occupier shall comply with all the conditions laid down in this authorization.
5. That, the occupier shall submit quarterly report on hazardous wastes generated and consumed in its sources, products generated or resources conserved (specifying the details like type and quantity of resources conserved) to the Board.
6. That, the occupier shall maintain a log book containing information on quantity on generation, date wise utilization of the same and its disposal, etc.
7. That, the occupier shall maintain record of Hazardous Waste utilized, Hazardous Waste generated and disposal as per form-3 and shall submit the annual returns in form-4 as per Rule 20 (1) and (2) of the Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 to the Board.
8. That, the occupier shall comply with all the directions given by standard operating procedure.
9. That, the occupier shall be responsible for safe and environmentally sound management of hazardous and other wastes.
10. That, the hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.
11. That, the hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.
12. That, the occupier shall take all the steps while managing hazardous and other wastes to-
(a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and
(b) provide persons working in the site with
13. That, the occupier shall comply with all the conditions laid down in this authorization mentioned in general and specific conditions.
14. That, the occupier shall install a display Board outside its plant showing details such as
(a) status of CTO;
(b) Status of authorization granted ;
(c) Disposal/reuse of hazardous waste generated in the plant and other relevant information as per prescribed guideline and update the same as required.

Memo No:JSPCB/HO/RNC/HWM-
15306830/2024/52
Date: 28/06/2024

Sanjay Kumar
Srivastava
Sanjay Kumar Srivastava
Officer on Special Duty

Digitally signed by
Sanjay Kumar Srivastava
Date: 2024.06.28
07:57:18 +05'30'

Copy To:

Regional Officer, Regional Office, JSPCB, Dhanbad for information and necessary action.

Sanjay Kumar
Srivastava
Sanjay Kumar Srivastava
Officer on Special Duty

Digitally signed by
Sanjay Kumar Srivastava
Date: 2024.06.28
07:57:37 +05'30'

Annexure VII



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड

STEEL AUTHORITY OF INDIA LIMITED

कोलियरीज डिवीज़न, टासरा

COLLIERIES DIVISION, TASRA

Public Notice

This is for general information that M/s Steel Authority of India Limited (SAIL-Collieries) has been accorded Environment Clearance by MoEF&CC, Govt. of India, New Delhi for its Proposed Project "Tasra Coking Coal Washery (Capacity of 3.5 MTPA)" at Sindri, District Dhanbad, Jharkhand State through EC Clearance Identification No.-EC24A0801JH5355205N, File No. J-11015/122/2007-IA. II(M). The copy of Environment Clearance is available on Ministry of Environment, Forest & Climate Change (Parivesh portal) website (<http://parivesh.in>).

पंजीकृत कार्यालय: इस्पात भवन, लोदी रोड, नई दिल्ली-110003
Registered Office Ispat Bhawan, Lodhi Road, New Delhi 110003

हर किसी की ज़िन्दगी से जुड़ा हुआ है सेल



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड

STEEL AUTHORITY OF INDIA LIMITED

कोलियरीज डिवीजन, टासरा
COLLIERIES DIVISION, TASRA

आम सूचना

सर्वसाधारण को सूचित किया जाता है कि मेसर्स स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड (सेल कोलियरीज) के टासरा कोकिंग कोल वाशरी परियोजना (क्षमता 3.5 एमटीपीए) सिन्दरी, जिला धनबाद, झारखण्ड को भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय नई दिल्ली द्वारा पर्यावरण स्वीकृति प्रदान की गई है। जिसकी पहचान संख्या EC24A0801JH5355205N, फाईल क्रं० J-11015/122/2007-IA.II(M)। पर्यावरण स्वीकृति भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के परिवेश पोर्टल (<http://parivesh.nic.in>) में उपलब्ध है।

पंजीकृत कार्यालय: इस्पात भवन, लोदी रोड, नई दिल्ली-110003
Registered Office Ispat Bhawan, Lodhi Road, New Delhi 110003

हर किसी की जिन्दगी से जुड़ा हुआ है सेल

Annexure

VIII



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीज़न, तासरा
COLLIERIES DIVISION, TASRA

Ref. No. GM (Tasra) Inv./ (Tasra washery) 24/ 115(A)

Date: 22.11.2024

To,

Circle Officer,
Jharia Rechal Dhanbad, Jharkhand

Sub: Information regarding grant of Environment Clearance (EC) for Tasra Coking Coal washery Plant (3.5 MTPA) of M/s Steel Authority of India (PSU under GoI) located at FCIL, Sindri, Village-Rohraband, District- Dhanbad, Jharkhand.

Ref-16th EAC of MoEF & CC meeting held on 08.10.2024

Respected Sir,

With reference to the subject cited above, we are pleased to inform you that the Environment Clearance for the Tasra Coking Coal Washery Plant of M/s SAIL, has been granted by the Ministry of Environment, Forest & Climate Change (MoEF & CC) on 14.11.2024. The clearance with EC Identification No. EC24A0801JH5355205N and File No. J-11015/122/2007-IA.II (M). The official copy of the Environment Clearance is available on the PARIVESH portal (<http://parivesh.nic.in/>)

In accordance with the recommendations of the EAC, we are submitting hard copy of the EC for your reference.

Thanking you,

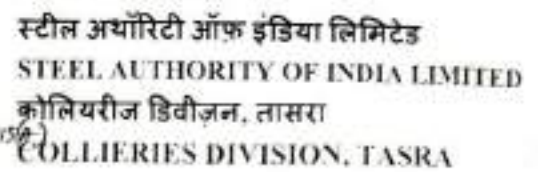
Yours faithfully,

For Steel Authority of India Limited


(S. K. Kureel)

General Manager (Tasra)

Encl: As stated above.



Collieries Division, Chasnalla, Dhanbad, Jharkhand-828135, Telephone: +91 326 2385-001, 2385-002; email: gmtasra@gmail.com, ghm.tasra@sail.in website: www.sail.co.in
 कोलियरीज डिवीजन, चसनाला, धनबाद, झारखण्ड-828135, टेलीफोन: +91 326-2385-001, 2385-002; ईमेल: gmtasra@gmail.com, ghm.tasra@sail.in वेबसाइट: www.sail.co.in



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीजन, तासरा
COLLIERIES DIVISION, TASRA

Ref No- LHM (Tasra)/ Env. /Tasrawashery/22/115(A)
To,

Date- 22/11/2024

The Office of Dy. Commissioner,
Dhanbad, Jharkhand.

204
25/11/24

Sub: Information regarding grant of Environment Clearance (EC) for Tasra Coking Coal washery Plant (3.5 MTPA) of M/s Steel Authority of India (PSU under GoI) located at FCIL, Sindri, Village-Rohraband, District- Dhanbad, Jharkhand.

Ref-16th EAC of MoEF& CC meeting held on 08.10.2024

Respected Sir,

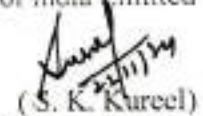
With reference to the subject cited above, we are pleased to inform you that the Environment Clearance for the Tasra Coking Coal Washery Plant of M/s SAIL has been granted by the Ministry of Environment, Forest & Climate Change (MoEF&CC) on 14.11.2024. The clearance with EC Identification No. EC24A0801JH5355205N and File No. J-11015/122/2007-LA.II(M). The official copy of the Environment Clearance is available on the PARIVESH portal (<http://parivesh.nic.in/>)

In accordance with the recommendations of the EAC, we are submitting hard copy of the EC for your reference.

Thanking you,

Yours faithfully,

For Steel Authority of India Limited


(S. K. Kureel)

General Manager (Tasra)

Encl: As stated above.



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीजन, तासरा
COLLIERIES DIVISION, TASRA

Ref. No.:GM (Tasra)/Env./ (Tasra washery)/24/ 115(A)

Date:22.11.2024

To,

Municipal Commissioner,
Dhanbad, Jharkhand.

Sub: Information regarding grant of Environment Clearance (EC) for Tasra Coking Coal washery Plant (3.5 MTPA) of M/s Steel Authority of India (PSU under GoI) located at FCHL, Sindri, Village-Rohraband, District- Dhanbad, Jharkhand.

Ref-16th EAC of MoEF& CC meeting held on 08.10.2024

Respected Sir,

With reference to the subject cited above, we are pleased to inform you that the Environment Clearance for the Tasra Coking Coal Washery Plant of M/s SAIL has been granted by the Ministry of Environment, Forest & Climate Change (MoEF&CC) on 14.11.2024. The clearance with EC Identification No. EC24A0801JH5355205N and File No. J-11015/122/2007-IA.II(M). The official copy of the Environment Clearance is available on the PARIVESH portal (<http://parivesh.nic.in/>)

In accordance with the recommendations of the EAC, we are submitting hard copy of the EC for your reference.

Thanking you,

Yours faithfully,

For Steel Authority of India Limited


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



Encl: As stated above.



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीजन, तासरा
COLLIERIES DIVISION, TASRA

Ref. No.:GM (Tasra)/Inv./ (Tasra washery)/24/ 115(8)

Date:22.11.2024

To,

The Word Councilor -53
Dhanbad, Jharkhand.

Sub: Information regarding grant of Environment Clearance (EC) for Tasra Coking Coal washery Plant (3.5 MTPA) of M/s Steel Authority of India (PSU under Govt) located at FCH.,Sindri, Village-Rohraband , District- Dhanbad, Jharkhand.

Ref-16th EAC of MoEF& CC meeting held on 08.10.2024

Respected Sir,

With reference to the subject cited above, we are pleased to inform you that the Environment Clearance for the Tasra Coking Coal Washery Plant of M/s SAIL has been granted by the Ministry of Environment, Forest & Climate Change (MoEF&CC) on 14.11.2024. The clearance with EC Identification No. EC24A0801JH5355205N and File No. J-11015/122/2007-1A.II(M).The official copy of the Environment Clearance is available on the PARIVESH portal (<http://parivesh.nic.in/>)

In accordance with the recommendations of the EAC, we are submitting hard copy of the EC for your reference.

Thanking you,

Yours faithfully,

For Steel Authority of India Limited

(S. K. Kureel)

General Manager (Tasra)

Encl: As stated above.

चम्पा देवी
श्रीमति चम्पा देवी
निवर्तमान पार्षद
वार्ड सं०-53
धनबाद नगर निगम
23/11/24

Ref. No.:GM (Tasra)/Inv./ (Tasra washery)/24/

Date:22.11.2024



स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
कोलियरीज डिवीजन, तासरा
COLLIERIES DIVISION, TASRA

Ref. No.: GM (Tasra)/Inv./ (Tasra washery)/24/ 115(A)

Date: 22.11.2024

To,

The Ward Councilor -54
Dhanbad, Jharkhand

Sub: Information regarding grant of Environment Clearance (EC) for Tasra Coking Coal Washery Plant (3.5 MTPA) of M/s Steel Authority of India (PSU under Govt) located at FCII, Sindri, Village- Rohraband, District- Dhanbad, Jharkhand.

Ref-16th EAC of MoEF& CC meeting held on 08.10.2024

Respected Sir,

With reference to the subject cited above, we are pleased to inform you that the Environment Clearance for the Tasra Coking Coal Washery Plant of M/s SAIL has been granted by the Ministry of Environment, Forest & Climate Change (MoEF&CC) on 14.11.2024. The clearance with EC Identification No. EC24A0801JH5355205N and File No. J-11015/122/2007-IA,II(M). The official copy of the Environment Clearance is available on the PARIVESH portal (<http://parivesh.nic.in/>)

In accordance with the recommendations of the EAC, we are submitting hard copy of the EC for your reference.

Thanking you,

Yours faithfully,

For Steel Authority of India Limited


22/11/24
General Manager (Tasra)

Encl: As stated above.


पाषंद
घाट नं० ५४
बगर निगम धनबाद