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महानदी कोलफील्डस लिमिटेड
Mahanadi Coalfields Limited
(A subsidiary of Coal India Limited)

OFFICE OF THE PROJECT OFFICER
BALRAM OCP, HINGULA AREA
AT/PO- DANARA, TALCHER
DIST: - ANGUL (ODISHA), PIN- 759103
E-MAIL: - po-blmp.mcl@coalindia.in

Date: 30.11.2025

Ref/MCL/PO/BOCP/ENVT/2025/ 529

To,
The Addl Principal Chief Conservator of Forest,
Eastern Regional Office,
Ministry of Environment & Forest,
A/3, Chandrasekharpur,
Bhubaneswar-751023.

Sub: - Half yearly report on environmental clearance condition for the period from April 2025 to September 2025 Balram OC Expansion Project 15 MTY of Hingula Area, MCL.

Dear Sir,

Please find enclosed herewith the half-yearly progressive report on environmental clearance condition for the period from **April,2025 to September,2025** in respect of Balram OC Expansion Project 15 MTY of Hingula Area, MCL.

Thanking You.

Yours faithfully,

30/11/25
Project Officer,
Balram OCP, MCL

Copy to,

1. The Director, EIA Monitoring Cell, MoEF, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi – 110 003
2. The GM (Envt.),MCL
3. The Regional Officer, M/s OSPCB, Angul
4. The Staff officer (Envt.), HA/Envt. In-charge, BOCP

SIX MONTHLY PROGRESS REPORT
ON
THE IMPLEMENTATION OF
ENVIRONMENTAL CLEARANCE CONDITIONS BY MoEF&CC
For the time period April to September 2025

Name of the Project: - **Balram OC Expansion Project (15 MTY).**

No. & Date of MOEF clearance letter: **J-11015/09/2013-I.A.II (M), Date: February 24, 2025**
J-11015/4/87-IA, Date: October 24th, 1990

A.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
1	No mining operations shall be undertaken in Forestland, until Stage – II forestry clearance for additional forest land of 193.845 Ha has been obtained under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980.	The total forestland involved in the mine lease area is 278.855 ha. Stage II FC is already available for 85.01 ha vide FC NO. 8-143/89-FC dated. 28.09.1990 For balance land of 193.845 ha, stage I FC has been accorded vide FC Letter no:8-143/89-FC - I/87973/2024 dated 22.11.2024. Mining operation in forestland will be undertaken only after obtaining Stage II Forest clearance.
2	3604 Project Affected Families (PAF) of the 17 villages namely Nakeipasi, Brahmanbahal, Damal, Prasananagar, Nathgaon, Majhika, Kalamachhuin, Danara, Natada, Banabaspur, Telipur, Solada, Satyabadipur, Gopalprasad Khamar, Khuringa, Birabarpur and Kochianali, will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan to be approved by the State Government. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six-monthly compliance report.	The rehabilitation and resettlement of the project affected families/persons is being governed as per R&R policy (2006 and its subsequent amendment) of Govt. of Odisha. It comprises of two components: **<u>Rehabilitation</u>** Families identified –3932 Rehabilitated – 3717 (3641 employment + 76 cash in lieu of employment) Balance : - 189 (Under scrutiny and process by District Adminstration) - 26 (documents not submitted due to intra family disputes/not eligible as minor on cutoff date/death). **<u>Resettlement</u>** Displaced Families to be resettled- 3604 Families opted for self-relocation by taking onetime cash in lieu of plot – 686 Balance families demanding plots – 2918

		Details on balance resettlement cases: ➢ District Administration has not finalised resettlement sites for these PDFs due to unavailability of large parcels of suitable Govt land nearby mining areas. ➢ MCL is trying to persuade and incentivise the villagers for self relocation by offering a generous resettlement package of Rs 19.87 lac per family (6 times that of State Govt rate). The villagers are coming forward in small groups to accept the package.
3	Project proponent shall not divert water body/road/transmission lines within the lease area of 2574 Ha as committed. Total	Project will not divert water body/road/transmission lines within the lease area of 2574 Ha.
4	Total water requirement for the proposed project is 5525 KLD (950 KLD potable water + 4575 KLD industrial purpose) and the same shall be met from groundwater and mine seepage water. PP shall obtain requisite NoC for withdrawal of Groundwater from CGWA prior to the commencement of mining operations	The water requirement of the project will be met from groundwater and mine seepage water. Project has obtained NoC for withdrawal of Groundwater from CGWA vide no. CGWA/NOC/MIN/REN/1/2025/11515 on dated 28.04.2025 valid till 09.12.2025.
5	PP shall adopt the following additional air pollution control measures.	
	PP shall adopt the following additional air pollution control measures: a. 03 nos. of CAAQMS in addition to the existing one CAAQMS - By December 2025 b. 1 Mobile fog Cannon - By September 2025 c. Wind Barrier - By December 2025 d. Plantation along the newly constructed Garland drains 1.5 Km stretch – Will be taken un in coming monsoon from June to Sept 2025.	The following additional air pollution control measures shall be adopted: a. The tender for installation of three CAAQMS units amounting to ₹3.29 crore has been floated. The technical scrutiny of bids is under process. The supply order is scheduled to be finalized and issued within December 2025 . b. The tender for procuring an additional Mobile Fog Cannon (01 no.) valued at approximately ₹1.30 crore has been floated and the technical scrutiny of bids is under progress. c. The construction of a total 1.5 km length Metallic Wind barrier along coal stockyard and Railway Siding is 72 % complete. The work will be completed within the stipulated time. d. Avenue plantation with 1000 nos. saplings has been completed along the garland drain.

	The proposed budget of Rs 12.77 Crores for PH action plan shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of next 03 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six monthly compliance report. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. As committed by the PP, PHCs & CHCs within the core and buffer zone will be supported with adequate budget over 5 years, for improving facilities for enhancing quality of public health service. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.	The budget for Environment management is kept separately. Action plan to address the issues raised during public hearing within a time frame of 03 years from the date of grant of EC is being and will be implemented along with focus in strengthening the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health.
6		
7	Total of 1996.78 ha area (77.57% of total project area) shall be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species shall be planted with a density of 2500 trees per hectare. Total no. of 49,91,950 saplings shall be planted and nurtured in 1996.78 hectares in 52 (49 years and post closure 3 years) years.	Existing green belt has been developed in 237.47 Ha area with total sapling of 4,93,045 nos. Proposed greenbelt will be developed in 1764.21 ha which is about 68.53% of the total project area. Thus, total of 1996.78. ha area (77.57% of total project area) will be developed as greenbelt. During the FY 2025-26, a total of 37000 nos. saplings have been planted over 4.90 ha area near the periphery of the mine.
8	A green belt shall be developed all along the nearby village boundaries to reduce impact of air pollution over nearby villages. Plantation must be done on both the sides of coal transportation road and fog canons must be installed for dust suppression before the commencement of the mining operation. In addition to this, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year for 5 years with incentive to improve the green cover in and around the mine lease area.	In FY 2025-26, 50000 nos of fruit bearing plant saplings have been distributed to farmers/villagers residing in the surrounding villages of the mine. In addition to the above, 20000 kg of vermicompost have also been distributed as an incentive to augment plant growth.
9	For proposed expansion of 15 MTPA, till the belt conveyor is under construction, 12.5 MTPA (including coal to and from washery) shall be transported by road (through trucks) from pit to siding and 2.5 MTPA shall be transported through dedicated coal transportation road. As committed, construction of belt conveyor shall be completed by the 31/03/2028. Road transportation of coal is not permitted beyond 31/03/2028.	It is to submit that coal transportation from the mine will be carried out as per the conditions governed in the Environmental Clearance. Till the construction of Belt Conveyor is completed, Out of 15 MTPA coal, 12.5 MTPA will be transported from pit to siding by tippers by road (4.87 km) and then by rail. Balance 2.5 MT will be

		transported through dedicated coal transportation road.
10	PP should continue the Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.	The work order for assessment of carbon emission intensity for all the mines of MCL, including Balram OCP has been issued to CMPDIL. The scope of the work includes identification of different carbon direct and indirect emission sources in mining activities
11	The proposed project shall be operated on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of mine lease area.	100% water generated at BOCP is being reused and no water is being discharged to outside the boundary of ML area. Accordingly, ZLD concept is being implemented at BOCP.
12	PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office.	Proposal for carrying out the survey of the impact of blasting in the nearby area/villages, has been forwarded for obtaining competent approval. Remedial measures as required will be taken based on the findings of the survey.
13	Management of top soil and overburden shall be as per the approved mining plan. No OB dumping should be done outside the ML area.	The top soil generated is being stored at an earmarked area, which is subsequently spread over the technically reclaimed dumps for biological reclamation. No OB dumping is being done outside the ML area.
14	Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs. 843.32 Cr (Capital) and Rs 31.15 Cr (recurring) 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 for the activities carried out during the previous year.	Protective measures as proposed in Environment Management Plan (EMP) will be implemented in a time-bound manner. Fund earmarked for environmental activities are kept under separate head. Annual audit of all expenditures is being carried out. The details of environmental expenditure carried out during FY 2024-25 is mentioned in the Form V Environment statement of Balram OCP attached as **Annexure - VI**

15	To control the production of dust at the source, the crusher and in-pit belt conveyors shall be provided with mist-type sprinklers. PP shall install fixed fog cannon (mist sprayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.	Currently, 08 nos. of trolley mounted Fog Cannons (100 m throw) have been deployed at Railway Siding and Coal Stockyard. 02 Mobile Fog Cannons (40 m. throw), 07 nos. Contractual Water sprinklers (9 nos. of 20 KL capacity) and 4 nos departmental water sprinklers (28 KL) have been deployed at Haul roads, Internal Coal transport roads and Coal Corridor Further, one additional Trolley mounted fog cannon will be installed in Balram OCP. The tender for procurement 01 nos additional truck mounted fog cannon has been processed and is currently under technical scrutiny.
16	Garland drains of adequate size shall be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.	A garland drain of 6.0 km exists encompassing the existing mine boundary of Balram OCP 8 MTY. It is also planned to construct the garland drain of 18 km length in the total additional expansion area. The Garland drains (size, gradient and length) and sump capacity have been designed keeping 50% safety margin over and above the hourly peak rainfall and maximum discharge in the area adjoining the mine area. Sump capacity shall have adequate retention period to allow proper settling of silt material.
17	Check dams shall be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.	Check dams will be constructed at required locations within drains to arrest eroded materials and settling ponds shall be constructed to treat mine discharge water inside the mine block.
18	Water harvesting pond shall be created separately to recharging the ground water and usage of project affected families.	The mine sumps of Balram OCP act as natural recharge units. Water supply is being made to the project affected families through CSR scheme.
19	Proper profiling of working benches of pits and dumps shall be done to channelize water in garland drains & sumps.	Proper profiling of working benches of pits and dumps will be done to channelize water in garland drains & sumps as per requirement.
20	Waste generated from the domestic use shall be treated in STP and the treated water will be utilized in plantation & greenbelt development. Wastewater from the HEMM washing/ workshop will be treated in ETP. After treatment, water will be reused in washing of HEMM, dust suppression and greenbelt development.	The domestic wastewater generated from the township is being treated in sewage treatment plant of capacity 1.2 MLD. The treated water is being monitored fortnightly as per the norms and the values are within prescribed standards. • A 300 KLD capacity ETP has been constructed to treat the wastewater from the HEMM Workshop.

		• This ETP utilizes a series of treatment units, including primary settling tanks, oil and grease traps, and alum mixer tanks. • The treated waste water is being reused for equipment / floor washing.
21	PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.	• 12 nos. xcentric rippers are being used which has minimized the need of blasting for OB removal. • Controlled blasting using Electronic delay detonators is being done & it is conducted in day time only.
22	PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System.	A Committee for "Public Grievance Redressal and Monitoring System" have been established for resolving any issues related to the pollution of mines and to resolve issues as soon as possible not beyond 30 days. A notice has been published in The New Indian Express in English and in Dharitri newspaper in Odia language on 29.04.2025 to spread awareness among the public. A logbook on "Public Grievance Redressal and Monitoring System" is being maintained. The same has been reported to the IRO. Bhubaneswar vide letter no. MCL/HA/E&F/2025-26/566 dated 02.05.2025 **(copy attached as Annexure I).**
23	The project proponent shall take all precautionary measures during mining operations for the conservation and protection of endangered fauna, if any, spotted in the study area. Wildlife conservation plan as approved by the competent authority shall be implemented. PP shall deposit the approved amount of Rs. 30.588 crores s as proposed for wildlife conservation plan to the Govt. of Odisha, Forest & Environment Dept. and further consult with State Biodiversity Authority for its CSR activity.	No endangered fauna have been recorded in the study area as per the baseline study conducted. A Site specific Wildlife Conservation Plan (SSWLCP) was prepared and approved by PCCF Wildlife vide No.9783/CWLW-FDWC-FD-0150-2021 dt.17.08.2024 (Copy enclosed). As per the plan, An amount of Rs. 30.588 crores was deposited in Orissa CAMPA account on 03.12.2024 and Rs 152.94 Lakhs deposited in The Wildlife Odisha Account on 08.11.2024.
24	Third-party audit (by reputed Govt. institutions/organizations) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.	Third party audit for air and water quality shall be carried out during 2025-26 and the outcome of the audit will be submitted to IRO, Bhubaneswar, MoEF&CC. It is also submitted that third-party audit (by reputed Govt. institutions/organizations) for air & water quality shall be carried out every year.
25	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.	The half yearly status report of mine closure activities for FY 2025-26 for the period April to September 2025 is attached herewith as **Annexure-VII.**

26	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.	The land will be reclaimed technically and biologically in a progressive manner as per the approved mine closure plan approved by the MCL Board of Directors.
27	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.	Environmental laboratory for Balram OCP has been established at Talcher and CMPDIL is entrusted with the monitoring job. CMPDIL is an institute of national repute and has necessary skilled manpower for management of environmental laboratory. Non compliance or infringement, if any, shall be reported to the concerned authority.
28	PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.	Usage of single use plastic is being avoided at project premises. Awareness events for ban on Single Use Plastic (SUP) has been organized at office premises and colony. Various competition events were organized among students and employees. Environmental awareness rally was organized to increase awareness on ban of Single Use Plastic. Further, jute bags were freely distributed to local inhabitants as a measure to prevent use of plastic bags. Photographs of awareness events are given below: 

		 
29	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5thJune 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.	The Project will implement the 'Ek Ped Maa Ke Naam' Campaign to increase the forest cover, which will be separate from the Green belt development in the project. 37000 nos. of plant saplings have been planted over 4.9 Ha. Area during the program.
30	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.	Till date no such loss has been communicated to the project by the District Commissioner. Suitable measures will be taken as and when any such requirement is communicated to the project by the concerned District Commissioner.
B.	**STANDARD CONDITIONS**	
	1. Statutory Conditions:	**Compliance Status**
1	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.	The project has noted that the Environmental clearance is subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable.
3	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	Solid/hazardous waste generated in the mines is being addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016. The used/spent oil is stored in MS Drums under separated shed with concrete floors, and is auctioned to recyclers/reusers authorized by SPCB. The chemical sludge generated from ETP and Oil filters from HEMM are stored in 10 MT containers provided by RE Sustainability Ltd and is send to the CHWTDF Jajpur Odisha (RE Sustainability Ltd) for disposal. An agreement was made with M/s RE Sustainability Limited (CHWTSDF Jajpur, Odisha) for the disposal of oil filters from HEMM and chemical sludge generated from the ETP. (Agreement No. M565563, dated 14.09.2022).

4	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.	The production has not exceeded and will not exceed the prescribed EC Limit of 15 MTY.
5	Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.	The project has noted that validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein.
	2. Air Quality Monitoring and Mitigation Measures	**Compliance Status**
1	Project proponent shall obtain requisite consent from State Pollution Control Board for 15 MTPA mining.	The Project has obtained Consent to Establish (CTE)/Environmental Safeguards Order vide No.7669/IND-II-CTE-7417 dated 13.04.2025 and Consent to Operate (CTO) for 15 MTY production capacity vide No7715/IND-I-CON-1218 dated 15.04.2025 valid till 31.03.2026.
2	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, SO2 and NOx. 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.	Regular monitoring of environmental parameters such as air, water, noise, soil, ETP, STP, mine sump water etc. is being done and report being submitted to the Board. After consultation with the Regional Officer, State Pollution Control Board following ambient air quality monitoring stations in core and buffer zone has been finalized for monitoring of PM10, PM2.5, SO2 and Nox. 1. Near Project Office. 2. Pump house, near outsourcing patch. 3. North west of the mine, Solada village. 4. Natedi Village 5. Natada village.
3	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.	The Ambient Air Quality monitoring in the core zone is being carried out to ensure the Coal Industry Standards notified vide GSR 742 (E). Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data is being regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
4	Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.	Effective pollution control measures such as 08 no.s trolley mounted Fog Cannons (100 m throw) have been deployed at Railway Siding and Coal Stockyard. 02 Mobile Fog Cannons (40 m throw), Contractual Water sprinklers (09 nos of 20 KL capacity) and 4 nos departmental water sprinklers (28 KL) have been deployed at Haul roads, Internal Coal transport roads and Coal Corridor.

		Further, to control pollution at source, drills are being operated with dust extractors and with wet drilling process. •Controlled blasting is being done & it is conducted in day time only. •12 No.s of XCentric rippers are introduced to reduce the blasting for OB removal; The air quality monitoring is being done fortnightly, by CMPDIL, through the monitoring stations installed in consultation with the RO SPCB. Further 01 nos CAAQMS has also been installed in the core zone and connected to the SPCB server. The air quality conforms to the norms prescribed by the Central/State Pollution Control Board.
5	Major approach roads shall be black topped and properly maintained.	Major approach roads have been black topped/concreted and properly maintained.
6	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.	All the vehicles engaged in mining and allied activities have obtained 'PUC' certificate from the authorized pollution testing centres.
7	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.	The construction of a total 1.5 km length Metallic Wind barrier along coal stockyard and Railway Siding is 72 % complete. The work will be completed within the stipulated time.
8	The raw coal 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.	The raw coal is being stacked properly at earmarked site (s) within stockyards. Metallic wind barriers of a total height of 9 meters for a stretch of 1.5 km along coal stockyard and railway siding is under construction. 01 no of Fire Tender and 01 no. of 28 KL Water tanker are available in the mine to deal with coal fire, if any. Moreover, G.I pipe network provided in coal stock to control fire. The technology based mechanism for monitoring and mitigation of coal fire is being explored.
9	PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall explore installation of solar power generation units.	Rooftop solar panels of 284.54 KW have been installed in the peripheral locations like project office, administrative buildings & schools.

	3. Water Quality Monitoring and Mitigation Measures	Compliance Status
1	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.	The effluent from HEMM Workshop is treated in a 300 KLD ETP and the treated water is monitored fortnightly in terms of parameters notified under MoEF Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents. The report is attached as **Annexure II**)
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-lA.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.	The monitoring data is uploaded on the MCL website and displayed on the Environmental Display Board installed at the Project Office of Balram OCP.
3	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah/streams flowing near or adjacent to the mine. 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 preventing any chance of mine inundation.	The Project will not alter any water channels around the site. The nearest water body is Singhada Jhor, which is 200 meter North West of the Mine boundary. Appropriate embankments along with strengthening with stone pitching and plantation, as per requirement, will be provided on the river front side to prevent mine inundation in the expansion phase of mine.
4	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff	A garland drain of 6.0 km exists encompassing the existing mine boundary of Balram OCP 8 MTY. It is also proposed to construct the garland drain in the total additional expansion area.(18 km). The Garland drains (size, gradient and length) and sump capacity have been designed keeping 50% safety margin over and above the hourly peak rainfall and maximum discharge in the area adjoining the mine area. Sump capacity shall have adequate retention period to allow proper settling of silt material.
5	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	The Mine seepage water is used for mining activities including dust suppression, fire fighting, green belt development, vehicle wheel washing and HEMM Workshop. The drains are desilted after monsoon period and maintained properly.
6	Industrial wastewater from coal handling plant and mine 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 thereunder, and as amended from time to time. Oil and	Industrial wastewater and mine water will be properly collected and treated in proposed 1.4 MLD MD- ETP. 300 KLD Oil and grease trap has been installed before discharge of workshop effluent.

	grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater.	1.2 MLD Sewage treatment plant has been installed for treatment of domestic wastewater.
7	An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake/streams etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against in rush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.	Proposal has been processed for preparation of integrated surface drainage plan including surface water conservation plan for the area of influence affected by the mining operations. The plans shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to MoEF&CC.
8	The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.	Proposal has been processed for processed for preparation of conservation and management plan for revarian /riparian ecosystem in and around Balram OCP upto a distance of 5 km.
9	Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP) as proposed. After treatment, treated water shall be reused for plantation.	The effluent from HEMM Workshop is treated in a 300 KLD ETP. The treated water is reused for wheel washing. The domestic wastewater from Balram Colony is being treated in a 1.2 MLD STP. The treated water is used for gardening/plantation.
	4. Noise and Vibration Monitoring and Prevention	**Compliance Status**
1	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity 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.	The following control measures are provided for control of noise level in the mine. • Controlled blasting with NONEL technology is being practiced. • Regular maintenance of HEMM • Ear plug and ear muff are provided to all persons engaged in noisy area. Noise level monitoring is being done fortnightly by CMPDIL and noise level is within the standards.
2	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.	Noise level survey is being carried out at every fortnight during daytime and nighttime. The Noise level monitoring report for April 2025 - September 2025 is attached as **Annexure II.** The Noise Level Monitoring Data is being

		submitted to the MoEF&CC IRO office and SPCB, Odisha on Six- monthly basis with the half yearly EC Compliance Report.
	5. Mining Plan	**Compliance Status**
1	Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.	The project obtained 5 star rating in FY 2023-24 from Ministry of Coal.
2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	The project will ensure that mining will be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under.
3	No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).	No change in mining method, calendar programme and scope of work will be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
4	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Mining will be carried out as per the approved Mining Plan and Mine Closure Plan of Balram OCP approved by MCL Board of Directors.
5	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Rooftop solar panels of 284.54 KW have been installed in the peripheral locations like project office, administrative buildings & schools.
6	Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.	Adequate dust suppression measures have been provided including truck mounted water sprinklers, mobile fog cannons, fixed fog cannons, fixed sprinklers, wheel washing and instant shower system for vehicles, to prevent dust generation in the mines. Routine Environment monitoring is being done in both core and buffer zones by CMPDI. Adequate illumination is being ensured in conformance with DGMS standards. The air quality monitoring reports are enclosed as **Annexure II**.
7	No mining shall be carried out in forest land without obtaining the requisite Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927	The total forestland involved in the mine lease area is 278.855 ha. Stage II FC is already available for 85.01 ha vide FC NO. 8-143/89-FC dated. 28.09.1990 For balance land of 193.845 ha, stage I FC has been accorded vide FC Letter no:8-143/89-FC-I/87973/2024dated 22.11.2024. Mining operation in forestland will be undertaken after obtaining Stage II Forest clearance.
	6. Land Reclamation	**Compliance Status**

1	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MoEF&CC) from time to time shall be submitted to the Regional Office of MoEF&CC.	Land Restoration/Reclamation Monitoring based on Satellite Data is being carried out annually by CMPDIL.
2	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	It will be complied.
3	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	It will be complied.
4	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.	Will be complied
5	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.	Will be complied

<table>
<tr><th></th><th>7. Public Hearing and Human Health Issues:</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.</td><td>Adequate illumination has been provided in all mine locations (as per DGMS Standards).</td></tr>
<tr><td>2</td><td>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 checkup for occupational diseases and hearing impairment, if any, as amended time to time</td><td>Occupational health cell has been created. Mine also has a well equipped dispensary with all facilities.
Periodical Medical examination of every worker is done at 5 years interval which also includes test for lung diseases.
For workmen above 45 years age group, the PME is done in 3 years interval.
The abstract of number of employees undergone PME in last 3 years are given below
<table>
<tr><th>Year</th><th>No of people underwent PME</th></tr>
<tr><td>2023</td><td>365</td></tr>
<tr><td>2024</td><td>209</td></tr>
<tr><td>2025</td><td>456</td></tr>
</table>
No potential cases has been identified till date. Further there is also provision for PME in NIT of the contract to take up PME of man power by contractor before deployment.</td></tr>
<tr><td>3</td><td>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.</td><td>Protective respiratory devices have been provided to workers working in dusty area. Adequate training is being given on safety management to supervisors and workmen.</td></tr>
<tr><td>4</td><td>Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.</td><td>Contractual workers of Balram OCP underwent skill development training at Group Vocational Training centre, MCL, Talcher.
2023 : 133 Nos.
2024 : 202 Nos.
2025: 140 Nos.</td></tr>
<tr><td>5</td><td>Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.</td><td>Proper arrangements are made for providing rest shelters for workers at the site. Adequate arrangements are made for providing cool and clean drinking water at various locations in the site as well as in rest shelters.</td></tr>
<tr><td>6</td><td>The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.I1 (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'.</td><td>The mitigation measures as applicable are being followed.</td></tr>
</table>

7	PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.	Proposal has been processed for conduction of epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.
	8. Corporate Environment Responsibility:	**Compliance Status**
1	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the norms/conditions and/or shareholders/stake holders	MCL as a whole has laid down an Environmental Policy , which is approved by the MCL Board of Directors for implementation in different areas/projects (**Annexure III).** The Environment Policy has standard operating process/procedures to bring into focus any infringements/ deviation/ violation of the environmental or forest norms/conditions. The MCL headquarter reviews the non-compliance of environmental conditions at regular intervals and time bound action plans are prepared to comply and implement the conditions as soon as possible
2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	A separate environment management cell headed by Director (T/P&P), MCL has been established in MCL and suitable qualified senior executives at HQ & area are being posted to look after the Envt. dept. **(Enclosed as Annexure-V)**. Also qualified environmental engineers have been posted at the project level exclusively to look after the environmental functionaries. The Director (T/P&P), MCL report to head of MCL i.e. Chairman – cum – Managing Director, MCL.
3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	EMP and Environmental conditions are reviewed periodically at the Project and Headquarters level. The fund earmarked for environmental protection are kept under separate head and are not diverted for any other purposes. The yearwise amount spent on environmental management is being submitted to SPCB Odisha every year in the form of Environment Statement (Form V) attached as **Annexure -VI .**
4	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self environmental audit is being carried out annually. Third party audit of compliance of EC conditions of the project shall be carried out. Proposal in this regard is under formulation.
	9. Miscellaneous:	**Compliance Status**

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	The advertisement regarding the grant of Environmental Clearance was published in The New Indian Express on 01.03.2025 in English and in Sambad Odisha on 02.03.2025 in Odia. **(Annexure IV)**
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	The copies of the environmental clearance was submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government for display the same in their respective Offices for 30 days.
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.	The Half Yearly EC Compliance report along with the Routine Environment Monitoring Report is being uploaded in the MCL Website on half yearly basis.
4	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.	The Half Yearly EC Compliance report along with the Routine Environment Monitoring Report is being submitted to the IRO MoEF on half yearly basis.
5	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.	The Environmental statement is being submitted in form V every year. For FY 2023-24, it was submitted on 28.09.2024. For the Financial year 2025-26 , it will be submitted before the stipulated time.
6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Will be complied
7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	The project will adhere to all the stipulations made by the State Pollution Control Board and the State Government.
8	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.	The project will abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and during the presentation to the Expert Appraisal Committee.
9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	It is submitted that no further expansion or modifications in the plant (mine) shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
13	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	Full cooperation will be extended to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary 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.
	General Instructions:	
1	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.	The advertisement regarding the grant of Environmental Clearance was published in The New Indian Express on 01.03.2025 in English and in Sambad Odisha on 02.03.2025 in Odia. **(Annexure IV)**
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 must display the same for 30 days from the date of receipt.	The copies of the environmental wase submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government for display the same in their respective Offices for 30 days.
3	The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.	MCL as a whole has laid down an Environmental Policy, which is approved by the MCL Board of Directors for implementation in different areas/projects The Environment Policy has standard operating process/procedures to bring into focus any infringements/ deviation/ violation of the environmental or forest norms/conditions. The MCL headquarter reviews the non-compliance of environmental conditions at

		regular intervals and time bound action plans are prepared to comply and implement the conditions as soon as possible
4	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Copy from similar condition no. 3 (Corporate Environment Responsibility) given above.
5	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
6	The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Full cooperation will be extended to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
7	Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.	Agreed.

ANNEXURE I

OFFICE OF THE GENERAL MANAGER
HINGULA AREA
PO: N.S. NAGAR, PIN-759148
Dist: Angul (Odisha), Ph No-(0670)265350
महानदी कोल्फील्ड्स लिमिटेड (भारत सरकार का उद्यम)
MAHANADI COALFIELDS LIMITED (A Government of India Enterprise)

Ref: MCL/HA/E&F/2025-26/564

Dt.23.04.2025

OFFICE ORDER

Sub: Proposal for establishing a "Public Grievance Redressal and Monitoring System" for resolving issues related to pollution with respect to Balram OCP, Hingula Area, MCL.

Environmental Clearance for Balram OC Expansion Project (15 MTY) was granted by MoEF&CC vide No. IA-J-11015/09/2013-IA-II(M) dated 24.02.2025. The Specific condition no. xxii of EC states the following:

"PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System."

In compliance of the above Environmental Clearance condition a Public Grievance Redressal and Monitoring System needs to be established for resolving any issues and complaints related to the pollution with respect to Balram OCP. In view of the above a committee of the following members has been established:

Sl No	Designation	Role
1	Project Officer, Balram OCP	Chairman
2	Staff Officer (E&M), Hingula Area	Member
3	Staff Officer (Civil), Hingula Area	Member
4	Project Environment Officer, Balram OCP	Member
5	Area Environment Officer, Hingula Area	Member Secretary

The Committee shall ensure the compliance of the aforementioned EC Conditions.

23/04/25

General Manager
Hingula Area,MCL

Copy to:

1. General Manager (Envt & Forest), MCL, HQ
2. Committee Members
3. Office Copy

OFFICE OF THE GENERAL MANAGER
HINGULA AREA
PO: N.S. NAGAR, PIN-759148
Dist: Angul (Odisha), Ph No-(0670)265350
महानदी कोल्फील्ड्स लिमिटेड (भारत सरकार का उद्यम)
MAHANADI COALFIELDS LIMITED (A Government of India Enterprise)

Ref: MCL/HA/E&F/2025-26/566

Dt: 02.05.2025

To
Deputy Director General of Forest (C)
Eastern Regional Office,
Ministry of Environment, Forest and Climate Change,
A/3, Chandrasekharpur, Bhubaneswar- 751023

Subject: Compliance of Environmental Clearance Condition regarding "Public Grievance Redressal and Monitoring System" with respect to Balram OC Expansion Project (15 MTY), Mahanadi Coalfields Limited, Odisha.

Ref: EC letter vide no. IA-J-11015/09/2013-IA-II(M) dated 24.02.2025

Sir,

Environmental Clearance for Balram OC Expansion Project (15 MTY) of Hingula Area, MCL, was granted by MoEF&CC vide No. IA-J-11015/09/2013-IA-II(M) dated 24.02.2025. The Specific condition no.(xxii) of EC states the following:

"PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System."

In compliance of the above Environmental Clearance condition a Public Grievance Redressal and Monitoring System has been established for resolving any issues and complaints related to the pollution of mines within 30 days, vide Office Order No. MCL/HA/E&F/2025-26/564 dated 23.04.2025

A notice has been published in The New Indian Express newspaper in English language and in Dharitri Newspaper in Odia language on 29.04.2025 to spread awareness among the public. A logbook on "Public Grievance Redressal and Monitoring System" is being maintained with the Area Environment Officer, at the General Manager Office of Hingula Area, MCL.

Submitted for your kind information and needful action.

Encl:

1. Environmental Clearance of Balram OC Expansion Project (15 MTY)
2. 'Public Grievance Redressal and Monitoring system" Office Order copy
3. Newspaper copies

Yours faithfully,

02/05/25

General Manager
Hingula Area, MCL

Guv pays tribute to Madhu Babu

Bhubaneswar: Governor Hari Babu Kambhampati paid tributes to Utkal Gourab Madhusudan Das on his 177th birth anniversary here on Monday. The Governor said his efforts have had a lasting impact on the state's cultural and social fabric.

Ration cards of foreigners to be cancelled: Min

EXPRESS NEWS SERVICE @Bhubaneswar

AS the government has started verification of foreign nationals living in the state in the aftermath of the Pahalgam terror attack, Food Supplies minister Krushna Chandra Patra on Monday said most of them have been found to possess ration cards and action is being taken to cancel them.

Patra told mediapersons here that a majority of the foreign nationals including Pakistanis, Bangladeshis and a few Myanmarese residing in the state have obtained ration cards by influencing local politicians or adopting other illegal means. This has been confirmed during the ongoing verification.

Describing it as a serious matter, the minister said instructions have been issued to department authorities to work in coordination with district administrations to find ration cards in possession of foreign nationals and take prompt action to remove them from the NFSA and SFSS database.

> A majority of the foreign nationals including Pakistanis, Bangladeshis and a few Myanmarese have obtained ration cards by influencing local politicians or adopting other illegal means
>
> Krushna Chandra Patra, minister



He said district administrations have been instructed to intensify the verification drive by collecting information from panchayat representatives, local authorities, community members and elected representatives. Verification of documents including voter ID and Aadhaar card is being carried out rigorously to ensure that only legitimate citizens of the state are part of the food security system.

The minister said the state government is taking all necessary steps to ensure that the welfare programmes are exclusively available to legitimate citizens. The state will continue to monitor the situation closely and take steps to maintain the sanctity of public distribution system and other government schemes.

Action will be taken against those who have assisted the foreign nationals in obtaining ration cards, Patra said.

In a separate interaction with reporters, Panchayati Raj minister Rabi Narayan Naik said the state government has taken action to identify Pakistani nationals living in the state with extended visas or without valid documents following directives from the Union Home Ministry for their deportation.

Efforts are also underway to identify Bangladeshi and Myanmar nationals residing in the state without valid visas. Their Aadhaar cards and voter IDs are being verified. He said a list of these individuals will be prepared and sent to the Home department for deportation.

RPF tightens vigil at Bbsr rly station

Bhubaneswar: In the wake of the Pahalgam terror attack, the Railway Protection Force (RPF) has intensified checking in Bhubaneswar railway station to keep a hawk eye on movement of any suspicious persons. Around 15 RPF personnel have been deployed at the railway station and carrying out thorough checking at all platforms and trains both during the day and the night. They are also creating awareness among passengers and asking them to immediately report to them if they notice any suspicious activity while travelling in trains or at the platforms. "We are on high alert after the Pahalgam terror attack. The passengers are being advised on a regular basis to immediately contact the railways helpline number - 139," an RPF officer said. The state police headquarters in Cuttack has asked all SPs, Bhubaneswar and Cuttack DCPs as well as Cuttack and Rourkela railway SPs to remain on high alert. The police have been directed to be vigilant, especially in tourist places and areas witnessing large public gatherings. They were also asked to intensify patrolling in sensitive areas, public transport hubs and hotels, among others.

CB arrests 7 in separate cases of duping pilgrims and investment fraud

EXPRESS NEWS SERVICE @Cuttack

THE Cyber Crime unit of Crime Branch on Monday arrested seven persons - two for their alleged involvement in swindling money from pilgrims by creating a fake website, and the other five in separate cases of investment fraud.

Briefing mediapersons, special DG, Crime Branch Vinaytosh Mishra said in the first case, police arrested accused Anshuman Sharma (20) and his aide Arvind Kumar (36), both Uttar Pradesh natives, for allegedly defrauding gullible pilgrims seeking accommodation in Puri, through their fake website www.neeladribhaktaniwas.

The matter came to light after Arabinda Padhee, chief administrator of Shree Jagannath Temple Administration, filed a complaint in this connection on March 10. As per the complaint, the fraudsters had been asking pilgrims to deposit money online to get accommodation at Neeladri Bhakta Niwas in Puri.

A laptop, mobile phone, SIM card, details of the fake website Niladri Bhakta Niwas, Aadhaar card, PAN card, hosting details of Niladri Bhakta Niwas and the SIM card used for registration of website have been seized from the accused persons, he said.

Meanwhile, five other miscreants have also been arrested in separate cases of investment fraud. In the first case, the Crime Branch nabbed one Hiteshbhai Patra (30) from Surat in Gujarat for his alleged involvement in an investment fraud of ₹1.38 crore.

Police said Patra originally belongs to Balasore but works as a website developer in Surat. "He is the first layer account holder and ₹32 lakh was seized from his bank account. Six bank cheque books, 71 debit and credit cards, 13 rubber stamps of different fake companies, 12 mobile phones, SIM cards, four pendrives, and eight government and non-government ID cards were seized from his possession," said Mishra.

Similarly, CB has arrested 25-year old Parth Parmar of Ahmedabad in connection with another case of investment fraud amounting to ₹7.5 crore. "He is the first layer account holder and a sum of ₹26 lakh was directly deposited to his account," Mishra said.

In another case, Thakkar Karsanji Sobhaji (40) of Thakkarbhas in Bhuvar and Kureshi Mohammad Aslam (31) of Kapadvanj in Gujarat were arrested in connection with investment fraud of ₹87.80 lakh. Both are the first layer account holders and a sum ₹9.3 lakh and ₹6 lakh respectively were seized from their bank accounts.

The CB team has also arrested Akash Kesharwani (33) of Airoli More under Niint police station in UP in connection with an investment fraud of ₹1.4 crore. He is the second layer account holder and ₹3.1 lakh has been transferred to his account.

Many BJD leaders are sending feelers to join Congress: Bhakta

EXPRESS NEWS SERVICE @Bhubaneswar

AS the BJD grapples with serious internal turmoil, the Congress, sensing an opportunity to fish in the troubled waters, has served an open invitation to the disgruntled leaders to join it.

President of Odisha Pradesh Congress Committee (OPCC) Bhakta Charan Das on Monday said many leaders of the BJD are already in touch with the party and have had preliminary discussions. There will be a sea change in the political scenario of the state in the coming days, he added.



He also called upon all those who have left the Congress in the past to return and assist in rebuilding the party. "Congress is now the real Opposition in the state as the BJD is hand-in-glove with the BJP. We call upon those who had left the Congress to rejoin and help in rebuilding the party as it is the only genuine force fighting the BJP," he said.

The call of the OPCC president has come at a time when several senior BJD leaders are openly voicing their discontent on the manner in which their party is being run. Some leaders including former ministers Bhupinder Singh, Sashi Bhusan Behera and others had also held a meeting here recently and discussed their way forward. Several of them were of the opinion that the time has come to look for alternative options, sources said.

Former minister Bhupinder Singh did admit that there is discontentment in the party and senior leaders are not feeling comfortable. "There will be many developments in the near future," he said, however refusing to elaborate on the matter.

> Many leaders of the BJD are already in touch with the party and have had preliminary discussions. There will be a sea change in the political scenario of the state in the coming days
>
> Bhakta Charan Das, OPCC president



SUMMER DELIGHT

A street vendor makes her customers delighted as she sells mangoes in Bhubaneswar on Monday | SHAIKH QUADEER

PUBLIC NOTICE

Tata Steel Limited

ENVIRONMENTAL CLEARANCE

MCL MAHANADI COALFIELDS LIMITED

PUBLIC NOTICE

It is for information for all concerned that, a Public Grievance redressal and monitoring system has been established for Belpahar OCP, Hingula Area of Mahanadi Coalfields Limited. Any person or persons to resolve any issues related to pollution of Belpahar OCP shall file a complaint in the approach maintained by Area Environment Officer, Hingula Area in the below mentioned address.

Area Environment Officer, Office of the General Manager, Hingula Area, P.O: H.S. Nagar, Dist: Angul, Odisha (759146).

Sd/-
Project Officer
Belpahar OCP, MCL

R-5252

RADHA GOBINDO ROY GRANDSON JEWELLERS

22 CT GOLD (10 gm)

₹ 89,400.00

Infront of Juma Masjid, Nimchoun, Cuttack - 2, Phone : 7735676969

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
CMG, SDSC - SHAR SRIHARIKOTA - 524124

Brief E-TENDER NOTICE : CORRIGENDUM-II (SALE EXTENSION)

No: e-Tender Notice No.CMG/C/CON/248741-II) Dt: 25.04.2025

Refer to Tender No.CMG/C/CON/248741 dated 26.03.2025

Name of work: "Development of Horticultural and Landscaping works at Visitors Complex, SDSC SHAR" (Est. cost Rs.91 Lakhs) Sale period extended up to 05.05.2025. Interested tenderers may visit www.isro.gov.in or www.tenderwizard.com/ISRO for details.

Sd/- GROUP HEAD, CMG/SDSC SHAR

IT ALWAYS SEEMS IMPOSSIBLE UNTIL IT'S DONE

WHEN YOU REACH THE END OF YOUR ROPE, TIE A KNOT IN IT AND HANG ON

TVS MOTOR COMPANY LIMITED

Regd office: "Chaitanya", No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006
Website:www.tvsmotor.com Telephone No. (044) 28332115 Email:contactus@tvsmotor.com
CIN:L35921TN1992PLC022845

STATEMENT OF STANDALONE & CONSOLIDATED FINANCIAL RESULTS FOR THE QUARTER AND YEAR ENDED 31ST MARCH 2025

(₹ in Crores)

Sl. No.	Particulars	Standalone				Consolidated			
		Quarter ended		Year ended		Quarter ended		Year ended	
		31.03.2025	31.03.2024	31.03.2025	31.03.2024	31.03.2025	31.03.2024	31.03.2025	31.03.2024
		Unaudited		Audited		Unaudited		Audited	
1	Total income from operations	9,550.44	8,166.84	36,251.32	31,776.37	11,542.00	9,942.48	44,089.01	38,778.82
2	Net Profit / (Loss) for the period (before Tax, Exceptional items)	1,111.96	671.63	3,629.79	2,780.66	992.88	637.35	3,565.35	2,567.62
3	Net Profit / (Loss) for the period before tax (after Exceptional items)	1,111.96	671.63	3,629.79	2,780.66	992.88	637.35	3,565.35	2,567.62
4	Net Profit / (Loss) for the period after tax (after exceptional items)	852.12	485.43	2,710.54	2,083.00	886.70	401.87	2,348.90	1,753.59
5	Total Comprehensive Income for the period [Comprising Profit / (Loss) for the period (after tax) and Other Comprehensive Income /(Loss) (after tax)]	892.56	473.16	2,743.16	2,083.26	733.01	372.88	2,427.00	1,725.07
6	Paid up Equity share capital (Face value of Re.1/- each)	47.51	47.51	47.51	47.51	47.51	47.51	47.51	47.51
7	Reserves (excluding Revaluation Reserve)	-	-	9,699.14	7,683.53	-	-	8,416.87	6,736.00
8	Security Premium Account	- NOT APPLICABLE -							
9	Networth	9,966.19	7,725.95	9,966.19	7,725.95	8,481.38	6,751.08	8,481.38	6,751.08
10	Outstanding Debt	1,441.38	1,027.61	1,441.38	1,027.61	23,500.76	22,930.62	23,500.76	22,930.62
11	Outstanding redeemable Preference Shares	- NOT APPLICABLE -							
12	Debt Equity Ratio (Times)	0.13	0.13	0.13	0.13	2.76	3.38	2.76	3.38
13	Earnings Per Share (Face value of Re. 1/- each) (not annualised) (for continuing and discontinued operations) (i) Basic (in Rs.) (ii) Diluted (in Rs.)	17.94 17.94	10.22 10.22	57.05 57.05	43.84 43.84	13.64 13.64	8.15 8.15	47.06 47.06	35.50 35.50
14	Capital Redemption Reserve	- NOT APPLICABLE -							
15	Debenture Redemption Reserve	- NOT APPLICABLE -							
16	Debt Service Coverage Ratio (Excluding NBFC Subsidiary) (Times)	7.13	5.18	5.36	2.52	2.40	3.29	2.92	1.50
17	Interest Service Coverage Ratio (Excluding NBFC Subsidiary) (Times)	37.22	25.15	30.05	21.64	18.53	10.68	14.57	10.59
18	Current Ratio (Times)	0.80	0.64	0.80	0.64	1.12	1.02	1.12	1.02
19	Long term debt to working capital (Times)	-	-	-	-	1.81	2.44	1.81	2.44
20	Bad debts to Accounts Receivable ratio (Times)	-	-	-	-	-	-	-	-
21	Current liability ratio (Times)	0.84	0.79	0.84	0.79	0.60	0.61	0.60	0.61
22	Total debts to total assets ratio (Times)	0.09	0.09	0.09	0.09	0.58	0.60	0.58	0.60
23	Debtors Turnover ratio (Times)	28.26	27.86	28.08	27.86	24.80	25.29	24.80	25.29
24	Inventory Turnover ratio (Times)	16.54	17.97	16.04	17.97	11.40	11.71	11.40	11.71
25	Operating Margin (%)	14.0	11.3	12.3	11.1	12.4	10.3	10.8	9.9
26	Net Profit Margin (%)	8.9	5.9	7.5	6.6	8.2	4.1	6.4	4.5

Notes:

1. The above is an extract of the detailed format of financial results filed with the Stock Exchanges under Regulation 33 and 52 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015. The full format of the financial results are available on the Stock exchange websites (www.bseindia.com and www.nseindia.com) and on Company's website (www.tvsmotor.com)
2. Figures for the previous periods have been regrouped, wherever necessary, to conform to the current period's classification.
3. The detailed Financial Results of the Company for the year ended 31st March 2025 can be accessed through the below QR code.

Date : 28th April 2025

For TVS MOTOR COMPANY LIMITED
Sd/-
Prof. Sir Ralf Dieter Speth
Chairman

उत्कल प्रदेश आयुर्विज्ञान विश्वविद्यालय, रौरकेला, ओडिशा
Utkal Pradesh University of Medical Sciences, Rourkela, Odisha

विज्ञप्ति

क्र. सं.	पदनाम	प्रतिनियुक्ति हेतु रिक्तियां	आयु	अर्हता
1	शिक्षकेतर/ तकनीकी Assistant - As per 7th CPC Pay Matrix Rs.56,100/- (Level-10)	40 नग	56 (02 UR, 01 EWS, 02 OBC, 01 SC)	मान्यताप्राप्त संस्थान/विश्वविद्यालय से बायोकेमिस्ट्री/ माइक्रोबायोलॉजी/ फार्मेसी/फार्माकोलॉजी/ फिजियोलॉजी/ पैथोलॉजी/ एनाटॉमी में मास्टर डिग्री

www.upums.ac.in

CNR No: CHCH020022322020
CIS No: EXE / 230 / 2020

Present: Sh. Saurabh Gulia, Advocate for DH-JD no.4 proceeded ex parte vide order dated 15.03.2024.

Today the case was fixed for presence of DH. In pursuance of Court notice, learned counsel for the DH has appeared and moved an application for substituted service of judgment debtors. Heard. In view of the contents mentioned in the application, same stands allowed. Let, notice of execution be issued to JDs for 09.05.2025 through publication in the newspaper "Indian Express" on depositing of publication charges etc. Long adjournment is being granted on account of pending of 10 years old cases, custody, time bound and action plan cases are fixed in between.

Date of Order: 27.02.2025
Rajni Kapil, Stenographer-III

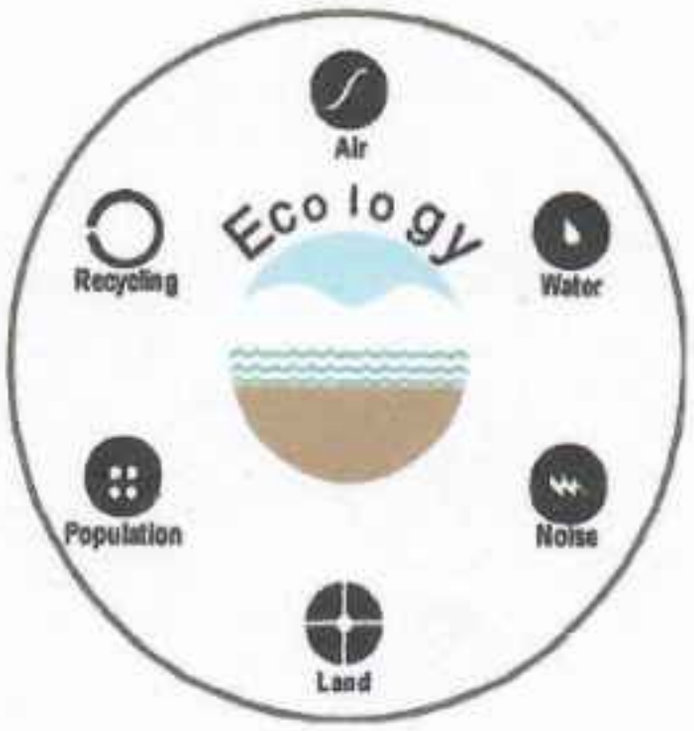
(Kaushal Kumar Yadav, HCS)
Civil Judge Jr. Div., Chd.
UID No.HR0530

ଜଗତପୁର,(ନଜର ନଥାଇବ): ଜଗତପୁର ସ୍ଥିତ ଜଗତ ସଦନ ଅଡିଟୋରିୟମ ଠାରେ ଅନୁଷ୍ଠିତ ଜିଲାସ୍ତରୀୟ ଦେବୁଜୋଲି ଫିଲିମ ସମୃଦ୍ଧିର ଉନ୍ମୋଚନ ହୋଇଯାଇଛି। ଏଥିରେ ମୋଟ ୨୯ ଟି ଚଳଚ୍ଚିତ୍ର ପ୍ରଦର୍ଶିତ ହୋଇଥିଲା। ମୁଖ୍ୟଅତିଥି ଜିଲାପାଳ ଡ଼ାଶି ବଙ୍କ ଓ ଅତିରିକ୍ତ ଜିଲାପାଳ ଜଗତ ପ୍ରସାଦ ପଣ୍ଡାଙ୍କ ସମେତ ପ୍ରମୁଖ ବ୍ୟକ୍ତିମାନେ ଯୋଗଦେଇଥିଲେ। ଜିଲାପାଳ ଜିଲାରେ ସୋସାଇଟି ଫର୍ ଆର୍ଟ ଆଣ୍ଡ କଲଚରର ବିଷୟରେ ଉଲ୍ଲେଖ କରିଥିଲେ, ଜଗତପୁର ସ୍ଥିତ ଅଖଣ୍ଡ ମଣ୍ଡିରର ଗୌରବମୟ ଇତିହାସ ସମ୍ପର୍କରେ ଆଲୋକପାତ କରିଥିଲେ। ଅତିରିକ୍ତ ଜିଲାପାଳ ଜଗତ ପ୍ରସାଦ ପଣ୍ଡା ଦେବୁଜୋଲି ଫିଲିମ ସମୃଦ୍ଧିର ଉଦ୍ଦେଶ୍ୟ ସମ୍ପର୍କରେ ବୁଝାଇଥିଲେ। ଏଥିରେ ଜିଲାର ଚଳଚ୍ଚିତ୍ର ପ୍ରତିଭାମାନଙ୍କୁ ଏକ ମଞ୍ଚ ପ୍ରଦାନ କରାଯିବ ବୋଲି ସେ କହିଥିଲେ। ଏହି ଅବସରରେ ଜିଲାର ୫ ଜଣ ଚଳଚ୍ଚିତ୍ର ପ୍ରତିଭାଙ୍କୁ ସମ୍ବର୍ଦ୍ଧନା ଜଣାଯାଇଥିଲା। ଏମାନେ ହେଲେ ଚଳଚ୍ଚିତ୍ର ନିର୍ଦ୍ଦେଶକ ଅଜୟ ପଣ୍ଡା, ଚଳଚ୍ଚିତ୍ର ଅଭିନେତା ଅଜୟ ମହାନ୍ତି, ଚଳଚ୍ଚିତ୍ର ଅଭିନେତ୍ରୀ ଅନୁପମା ପଣ୍ଡା, ଚଳଚ୍ଚିତ୍ର ଅଭିନେତ୍ରୀ ଅନୁରାଧା ମହାନ୍ତି ଓ ଚଳଚ୍ଚିତ୍ର ଅଭିନେତା ଅଜୟ ପଣ୍ଡା। ଏହି ଅବସରରେ ଜିଲାର ୩୧ ଟି ଚଳଚ୍ଚିତ୍ରର ପ୍ରଯୋଜକମାନଙ୍କୁ ସମ୍ମାନିତ କରାଯାଇଥିଲା। ଏଥିରେ ଜିଲାର ଚଳଚ୍ଚିତ୍ର ପ୍ରତିଭାମାନେ ଯୋଗଦେଇଥିଲେ। ଜିଲାପାଳ ଚଳଚ୍ଚିତ୍ର ପ୍ରତିଭାମାନଙ୍କୁ ଉତ୍ସାହିତ କରିଥିଲେ

Environmental Monitoring Report
Of
Hingula Area
For
April-2025

Talcher Coalfield

Mahanadi Coalfields Limited



Central Mine Planning & Design Institute Ltd.
(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)
[Assistance from Environment Division, CMPDI(HQs), Ranchi]

The test report shall not be reproduced in part or full without written approval of the competent authority

सीएमपीडीआई
cmpdi

Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
12-Apr-25	Pump House near Outsourcing Working Patch	209	87	43	13.33	20.39	Mining Operation And Coal Transportation Road	About 200m
12-Apr-25	Near Project Office	209	88	44	11.36	34.85	Mining Activities	About 500m
22-Apr-25	Pump House near Outsourcing Working Patch	215	85	42	12.00	33.72	Mining Operation And Coal Transportation Road	About 200m
22-Apr-25	Near Project Office	231	94	48	15.80	27.88	Mining Activities	About 500m

MoEF Standards Notification dated 25th September,2000	600	300		120	120

Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

सीएमपीडीआई
cmpdi

Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Hingula OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
12-Apr-25	Time Office	219	95	48	12.28	35.85	Mining Operations and Haul Road	About 200m
12-Apr-25	South West Side of the Mine	215	91	46	10.76	38.79	Mining Operations	About 300m
22-Apr-25	Time Office	218	95	44	14.69	26.59	Mining Operations and Haul Road	About 200m
22-Apr-25	South West Side of the Mine	214	90	43	18.77	33.11	Mining Operations	About 300m

MoEF Standards Notification dated 25th September,2000	500	250		120	120	

Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Balram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
03-Apr-25	Purunasahi Village	168	70	34	12.93	24.95		
03-Apr-25	East of the Mine, Natedi Village	175	71	39	10.67	25.88	Coal Transportation Road	About 2km
03-Apr-25	North West of the Mine, Solda Village (Reported Only)	164	64	31	10.58	26.14	Coal Transportation Road	About 2km
03-Apr-25	Natada Village	155	63	28	13.91	21.14	Anthropogenic Activities, Local	About 2km
04-Apr-25	North West of the Mine, Solda Village (Reported Only)	175	69	34	14.22	25.88	Coal Transportation Road	About 2km
04-Apr-25	Purunasahi Village	185	75	38	10.43	19.09		
04-Apr-25	Natada Village	163	66	30	14.30	18.41	Anthropogenic Activities, Local	About 2km
04-Apr-25	East of the Mine, Natedi Village	168	69	36	10.82	32.73	Coal Transportation Road	About 2km
09-Apr-25	Natada Village	175	77	36	16.00	23.52	Anthropogenic Activities, Local	About 2km
09-Apr-25	North West of the Mine, Solda Village (Reported Only)	165	59	30	13.97	20.91	Coal Transportation Road	About 2km
09-Apr-25	Purunasahi Village	181	72	37	15.85	17.73		
09-Apr-25	East of the Mine, Natedi Village	163	65	31	13.54	23.90	Coal Transportation Road	About 2km
10-Apr-25	North West of the Mine, Solda Village (Reported Only)	145	53	26	13.14	23.18	Coal Transportation Road	About 2km
10-Apr-25	Purunasahi Village	169	69	33	14.81	28.75		
10-Apr-25	East of the Mine, Natedi Village	132	60	28	18.27	34.85	Coal Transportation Road	About 2km
10-Apr-25	Natada Village	162	70	29	16.84	23.94	Anthropogenic Activities, Local	About 2km
18-Apr-25	Purunasahi Village	152	61	29	20.25	37.47		
18-Apr-25	North West of the Mine, Solda Village (Reported Only)	167	69	33	16.30	33.11	Coal Transportation Road	About 2km
18-Apr-25	East of the Mine, Natedi Village	175	74	36	13.33	27.88	Coal Transportation Road	About 2km
18-Apr-25	Natada Village	177	73	38	16.89	27.45	Anthropogenic Activities, Local	About 2km
19-Apr-25	North West of the Mine, Solda Village (Reported Only)	173	75	36	13.33	27.45	Coal Transportation Road	About 2km
19-Apr-25	Purunasahi Village	172	69	33	13.83	29.62		
19-Apr-25	Natada Village	168	65	34	12.63	34.67	Anthropogenic Activities, Local	About 2km

*NAAQS,2009		100	60	80	80

Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

Project : **Balram OCP** *(conc. in µg/cu.m.)*

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
19-Apr-25	East of the Mine, Natedi Village	169	70	33	18.27	35.72	Coal Transportation Road	About 2km
25-Apr-25	Natada Village	164	60	31	17.78	30.58	Anthropogenic Activities, Local	About 2km
25-Apr-25	Purunasahi Village	157	63	30	12.84	27.88		
25-Apr-25	East of the Mine, Natedi Village	156	63	29	9.33	32.93	Coal Transportation Road	About 2km
25-Apr-25	North West of the Mine, Solda Village (Reported Only)	158	60	29	16.44	29.80	Coal Transportation Road	About 2km
26-Apr-25	North West of the Mine, Solda Village (Reported Only)	163	63	30	19.75	30.49	Coal Transportation Road	About 2km
26-Apr-25	East of the Mine, Natedi Village	180	71	35	15.31	35.72	Coal Transportation Road	About 2km
26-Apr-25	Purunasahi Village	168	74	35	14.22	26.66		
26-Apr-25	Natada Village	176	68	35	13.10	23.11	Anthropogenic Activities, Local	About 2km

*NAAQS,2009		100	60	80	80

Authorised Signatory
CMPDI, Regional, LAB
BHUBANESWAR

सीएमपीडीआई
cmpdi

Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
03-Apr-25	Balichandrapur Village	166	67	34	17.31	28.06		
03-Apr-25	Banabaspur Village	159	65	33	15.85	28.64		
03-Apr-25	North East of the Mine, Solda Village	164	64	31	10.58	26.14	Coal Transportation Road	About 2km
03-Apr-25	Kankarei Village	191	77	39	15.56	18.82		
03-Apr-25	Sanamahitala Village	158	65	32	16.44	30.58		
04-Apr-25	Kankarei Village	189	74	37	10.51	26.38		
04-Apr-25	Balichandrapur Village	172	71	36	17.35	20.91		
04-Apr-25	North East of the Mine, Solda Village	175	69	34	14.22	25.88	Coal Transportation Road	About 2km
04-Apr-25	Banabaspur Village	168	71	35	13.53	26.59		
04-Apr-25	Sanamahitala Village	155	61	30	13.78	20.39		
09-Apr-25	Sanamahitala Village	152	56	28	13.33	30.58		
09-Apr-25	Kankarei Village	162	65	30	10.91	29.94		
09-Apr-25	North East of the Mine, Solda Village	165	59	30	13.97	20.91	Coal Transportation Road	About 2km
09-Apr-25	Banabaspur Village	169	65	33	9.74	20.16		
09-Apr-25	Balichandrapur Village	159	61	30	12.28	33.61		
10-Apr-25	North East of the Mine, Solda Village	145	53	26	13.14	23.18	Coal Transportation Road	About 2km
10-Apr-25	Banabaspur Village	157	62	30	11.11	21.96		
10-Apr-25	Sanamahitala Village	141	52	24	14.69	32.05		
10-Apr-25	Balichandrapur Village	155	56	27	13.33	27.80		
10-Apr-25	Kankarei Village	156	53	27	12.37	25.23		
18-Apr-25	Banabaspur Village	181	69	38	17.78	38.34		
18-Apr-25	North East of the Mine, Solda Village	167	69	33	16.30	33.11	Coal Transportation Road	About 2km
18-Apr-25	Kankarei Village	196	81	40	13.33	36.59		

*NAAQS,2009		100	60	80	80

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Project :	Hingula OCP	(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
18-Apr-25	Sanamahitala Village	162	65	31	19.75	36.59		
18-Apr-25	Balichandrapur Village	142	53	25	17.31	36.32		
19-Apr-25	Kankarei Village	170	75	36	15.56	24.31		
19-Apr-25	Balichandrapur Village	173	64	31	13.78	32.93		
19-Apr-25	North East of the Mine, Solda Village	173	75	36	13.33	27.45	Coal Transportation Road	About 2km
19-Apr-25	Banabaspur Village	185	79	40	10.37	34.85		
19-Apr-25	Sanamahitala Village	157	63	30	12.89	35.29		
25-Apr-25	North East of the Mine, Solda Village	158	60	29	16.44	29.80	Coal Transportation Road	About 2km
25-Apr-25	Sanamahitala Village	186	74	38	11.31	25.66		
25-Apr-25	Kankarei Village	143	52	25	10.91	22.81		
25-Apr-25	Banabaspur Village	146	56	25	13.74	21.39		
25-Apr-25	Balichandrapur Village	185	71	39	14.55	25.66		
26-Apr-25	North East of the Mine, Solda Village	163	63	30	19.75	30.49	Coal Transportation Road	About 2km
26-Apr-25	Banabaspur Village	167	68	33	13.83	37.47		
26-Apr-25	Sanamahitala Village	148	56	27	17.78	32.93		
26-Apr-25	Balichandrapur Village	149	54	28	11.11	23.52		
26-Apr-25	Kankarei Village	178	76	37	18.71	23.94		

*NAAQS,2009		100	60	80	80

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Balichandrapur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	15.83	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
04-Apr-2025	<20.0	13.03	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
09-Apr-2025	<20.0	17.38	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
10-Apr-2025	<20.0	12.72	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
18-Apr-2025	<20.0	15.83	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
19-Apr-2025	<20.0	21.42	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
25-Apr-2025	<20.0	19.87	<0.1	<1.0	<1.0	1.4	BQL(QL=0.7)	BQL
26-Apr-2025	<20.0	21.72	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Kankarei Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	14.58	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
04-Apr-2025	<20.0	14.58	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
09-Apr-2025	<20.0	13.35	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
10-Apr-2025	<20.0	14.58	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
18-Apr-2025	<20.0	25.75	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
19-Apr-2025	<20.0	23.27	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
25-Apr-2025	<20.0	15.83	<0.1	<1.0	<1.0	1.5	BQL(QL=0.7)	BQL
26-Apr-2025	<20.0	23.58	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Solada Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	20.78	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
04-Apr-2025	<20.0	26.38	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
09-Apr-2025	<20.0	13.65	<0.1	<1.0	<1.0	1.4	BQL(QL= 0.7)	BQL
10-Apr-2025	<20.0	18.32	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
18-Apr-2025	<20.0	12.42	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
19-Apr-2025	<20.0	18.62	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
25-Apr-2025	<20.0	15.2	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
26-Apr-2025	<20.0	26.68	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Banabaspur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	27	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
04-Apr-2025	<20.0	20.78	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
09-Apr-2025	<20.0	19.55	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
10-Apr-2025	<20.0	18.93	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
18-Apr-2025	<20.0	20.17	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
19-Apr-2025	<20.0	13.03	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
25-Apr-2025	<20.0	26.68	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
26-Apr-2025	<20.0	18.62	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Sanamahitala Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	26.38	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
04-Apr-2025	<20.0	19.87	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
09-Apr-2025	<20.0	12.1	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
10-Apr-2025	<20.0	15.2	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
18-Apr-2025	<20.0	14.9	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
19-Apr-2025	<20.0	24.52	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
25-Apr-2025	<20.0	18.93	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
26-Apr-2025	<20.0	16.75	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**East Mine, Natedi Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	18.32	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
04-Apr-2025	<20.0	17.07	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
09-Apr-2025	<20.0	23.9	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
10-Apr-2025	<20.0	18.32	<0.1	<1.0	<1.0	1.4	BQL(QL=0.7)	BQL(QL=2.5)
18-Apr-2025	<20.0	13.35	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
19-Apr-2025	<20.0	12.72	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
25-Apr-2025	<20.0	23.58	<0.1	<1.0	<1.0	1.5	BQL(QL=0.7)	BQL(QL=2.5)
26-Apr-2025	<20.0	17.68	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Natada Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	26.68	<0.1	<1.0	<1.0	1.4	BQL(QL=0.7)	BQL(QL=2.5)
04-Apr-2025	<20.0	19.23	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
09-Apr-2025	<20.0	25.13	<0.1	<1.0	<1.0	1.5	BQL(QL=0.7)	BQL(QL=2.5)
10-Apr-2025	<20.0	21.1	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
18-Apr-2025	<20.0	14.27	<0.1	<1.0	<1.0	1.6	BQL(QL=0.7)	BQL(QL=2.5)
19-Apr-2025	<20.0	26.07	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
25-Apr-2025	<20.0	19.55	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
26-Apr-2025	<20.0	14.9	<0.1	<1.0	<1.0	1.5	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Purunasahi Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	25.75	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
04-Apr-2025	<20.0	13.97	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
09-Apr-2025	<20.0	20.17	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
10-Apr-2025	<20.0	18.32	<0.1	<1.0	<1.0	1.4	BQL(QL=0.7)	BQL
18-Apr-2025	<20.0	27.32	<0.1	<1.0	<1.0	1.5	BQL(QL=0.7)	BQL
19-Apr-2025	<20.0	15.52	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
25-Apr-2025	<20.0	18.62	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
26-Apr-2025	<20.0	13.97	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Solada Village (Reported Only)**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
03-Apr-2025	<20.0	20.78	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
04-Apr-2025	<20.0	26.38	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
09-Apr-2025	<20.0	13.65	<0.1	<1.0	<1.0	1.4	BQL(QL=0.7)	BQL
10-Apr-2025	<20.0	18.32	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
18-Apr-2025	<20.0	12.42	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
19-Apr-2025	<20.0	18.62	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
25-Apr-2025	<20.0	15.2	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
26-Apr-2025	<20.0	26.68	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
05-Apr-25	Natada Village	48.6	37.1
05-Apr-25	Solada Village (Reported only)	50.4	38.4
05-Apr-25	Near Natedi Village	49.8	37.4
05-Apr-25	Pump House Near Outsourcing Working Patch	65.8	56.1
05-Apr-25	Near Project Office Balram OCP	66.4	54.8
17-Apr-25	Solada Village (Reported only)	51.1	39.1
19-Apr-25	Natada Village	49.1	37.8
19-Apr-25	Near Natedi Village	48.8	38.1
19-Apr-25	Pump House Near Outsourcing Working Patch	64.9	55.8
19-Apr-25	Near Project Office Balram OCP	65.8	53.9

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
05-Apr-25	South West Side of the Mine	67.8	59.8
05-Apr-25	Solda Village	50.4	38.4
05-Apr-25	Kankarei Village	49.8	38.9
05-Apr-25	Time Office	68.9	59.8
17-Apr-25	South West Side of the Mine	67.7	59.4
17-Apr-25	Solda Village	51.1	39.1
17-Apr-25	Kankarei Village	50.1	39.4
17-Apr-25	Time Office	67.6	58.6

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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AMBIENT AIR QUALITY DATA

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
12-Apr-2025	1.8
22-Apr-2025	1.7
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
12-Apr-2025	1.6
22-Apr-2025	1.8
Standard	**02(8 Hours)**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
11-Apr-25	Gandhisagar (Mine Sump)	7.39	<40	39	52	-	
11-Apr-25	Inlet of O & G Trap	8.46	4.2	39	40	-	
11-Apr-25	Outlet of O & G Trap	8.51	<4.0	27	24	-	
26-Apr-25	Inlet of O & G Trap	8.06	<4.0	38	32	-	
26-Apr-25	Outlet of O & G Trap	8.42	<4.0	23	20	-	

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
11-Apr-25	STP Inlet of Balram Colony	8	-	22		<2	84
11-Apr-25	STP Outlet of Balram Colony	7.50	-	29	-	<2	46
26-Apr-25	STP Inlet of Balram Colony	7.22	-	44	-	<2	79
26-Apr-25	STP Outlet of Balram Colony	7.42	-	27	-	<2	48

G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	6.5-9.0	-	<100	-	30	<1000

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Hingula OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
11-Apr-25	Inlet of O & G Trap	8.35	4.2	45	48	-	
11-Apr-25	Mine Sump Water	8.24	<4.0	24	16	-	
11-Apr-25	Outlet of O & G Trap	8.45	<4.0	33	24	-	
26-Apr-25	Inlet of O & G Trap	8.04	<4.0	49	40	-	
26-Apr-25	Outlet of O & G Trap	8.30	<4.0	31	20	-	

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	5.5-9.0	10	100	250	30

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	10-Apr-2025	10-Apr-2025	10-Apr-2025	Acceptable	Permissible
Colour(Hazen)	2	4	3	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	3	1	1	5
pH	7.71	8.46	8.14	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	105.05	239.51	382.38	200	600
Chloride(mg/L)	31.12	44.73	81.69	250	1000
Sulphate(mg/L)	58.18	11.43	80.26	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	167.33	175.3	414.34	200	600
Calcium(mg/L)	44.72	35.13	108.60	75	200
Fluoride(mg/L)	<0.3	0.46	0.37	1	1.5
Total Dissolve Solid(mg/L)	290	388	724	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	0.11	0.13	0.14	1.0	No relaxation
Zinc(mg/L)	<0.04	0.13	0.26	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	10-Apr-2025	10-Apr-2025	10-Apr-2025	Acceptable	Permissible
Colour(Hazen)	2	2	2	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	2	1	1	5
pH	7.73	7.89	7.92	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	71.43	63.03	281.53	200	600
Chloride(mg/L)	19.45	21.39	97.25	250	1000
Sulphate(mg/L)	69.74	152.86	143.51	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	127.49	314.74	517.92	200	600
Calcium(mg/L)	35.13	91.03	185.25	75	200
Fluoride(mg/L)	<0.3	0.57	0.38	1	1.5
Total Dissolve Solid(mg/L)	240	448	830	500	2000
Copper(mg/L)	<0.03	<0.03	0.032	0.05	1.5
Manganese(mg/L)	0.07	<0.04	<0.04	0.1	0.3
Iron(mg/L)	0.22	0.23	<0.1	1.0	No relaxation
Zinc(mg/L)	0.07	0.04	0.09	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	10-Apr-2025	10-Apr-2025	10-Apr-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–
Sodium(mg/L)	16.71	29.27	34.58	–	–
Potassium(mg/L)	10.17	29.66	34.56	–	–

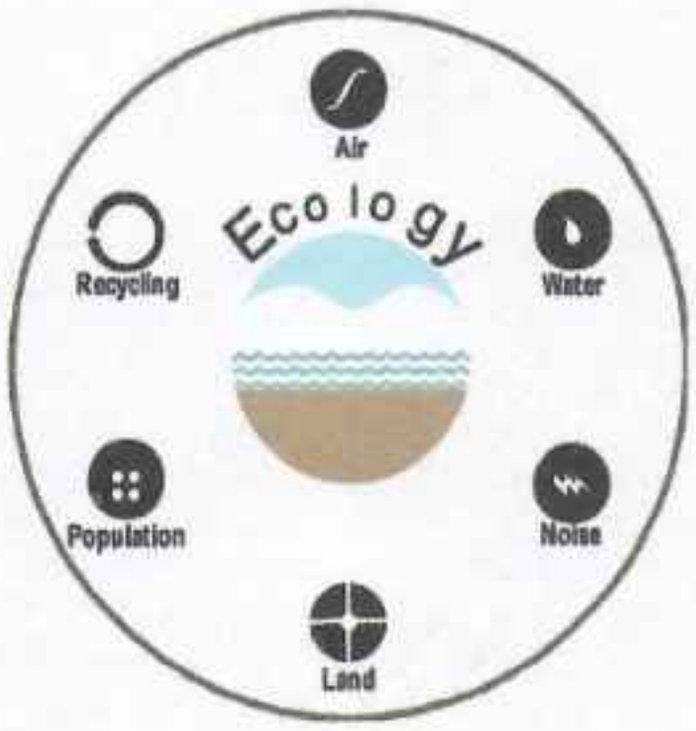
Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	10-Apr-2025	10-Apr-2025	10-Apr-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–
Sodium(mg/L)	14.59	14.12	30.78	–	–
Potassium(mg/L)	8.25	9.53	2.46	–	–

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Environmental Monitoring Report
Of
Hingula Area
For
May-2025

Talcher Coalfield

Mahanadi Coalfields Limited



Central Mine Planning & Design Institute Ltd.

(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)

[Assistance from Environment Division, CMPDI(HQs), Ranchi]

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Test Report

AMBIENT AIR QUALITY DATA

Area : **Hingula** ***(Compliance Station)***

Project : **Hingula OCP** *(conc. in µg/cu.m.)*

Date of Sampling	*Monitoring Station*	*SPM*	*PM10*	*PM2.5*	*SO2*	*NOx*	*Dust Generating Source(DGS)*	*Distance from DGS*
08-May-25	Time Office	209	89	42	26.24	31.28	Mining Operations and Haul Road	About 200m
08-May-25	South West Side of the Mine	203	85	40	12.94	23.03	Mining Operations	About 300m
22-May-25	Time Office	180	79	37	19.84	31.94	Mining Operations and Haul Road	About 200m
22-May-25	South West Side of the Mine	185	84	39	24.37	34.17	Mining Operations	About 300m

Standards Notification dated 25th September 2018	500	250		120	120	

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
08-May-25	Pump House near Outsourcing Working Patch	183	79	36	8.53	27.01	Mining Operation And Coal Transportation Road	About 200m
08-May-25	Near Project Office	218	94	44	10.67	32.06	Mining Activities	About 500m
22-May-25	Pump House near Outsourcing Working Patch	182	73	36	18.31	22.29	Mining Operation And Coal Transportation Road	About 200m
22-May-25	Near Project Office	198	84	41	12.96	31.74	Mining Activities	About 500m

Vide MoEF&CC Gazette Notification dated 25th September, 2018	600	300		120	120	

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AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
05-May-25	Balichandrapur Village	167	66	31	12.93	27.24		
05-May-25	Banabaspur Village	147	57	28	17.52	41.27		
05-May-25	North East of the Mine, Solda Village	155	66	31	18.60	35.97	Coal Transportation Road	About 2km
05-May-25	Kankarei Village	159	63	29	11.69	21.51		
05-May-25	Sanamahitala Village	151	56	29	13.71	32.69		
06-May-25	Kankarei Village	135	53	25	12.99	38.68		
06-May-25	Balichandrapur Village	178	70	33	16.27	31.37		
06-May-25	North East of the Mine, Solda Village	170	73	34	10.92	19.81	Coal Transportation Road	About 2km
06-May-25	Banabaspur Village	155	61	29	19.36	20.33		
06-May-25	Sanamahitala Village	143	53	28	13.49	23.03		
12-May-25	Sanamahitala Village	164	64	30	19.19	27.37		
12-May-25	Kankurei Village	121	48	22	12.45	22.09		
12-May-25	North East of the Mine, Solda Village	134	53	25	19.03	34.17	Coal Transportation Road	About 2km
12-May-25	Banabaspur Village	150	59	28	11.80	19.10		
12-May-25	Balichandrapur Village	156	62	29	11.85	36.75		
13-May-25	North East of the Mine, Solda Village	147	59	29	22.08	36.40	Coal Transportation Road	About 2km
13-May-25	Banabaspur Village	144	55	26	13.89	20.80		
13-May-25	Sanamahitala Village	132	48	25	14.39	21.23		
13-May-25	Balichandrapur Village	162	64	30	10.27	22.68		
13-May-25	Kankarei Village	153	58	29	13.44	39.28		
19-May-25	North East of the Mine, Solda Village	132	47	23	22.89	31.94	Coal Transportation Road	About 2km
19-May-25	Banabaspur Village	135	45	25	18.18	24.24		

*NAAQS,2009		100	60	80	80

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Project :	*Hingula OCP*	*(conc. in µg/cu.m.)*

Date of Sampling	*Monitoring Station*	*SPM*	*PM10*	*PM2.5*	*SO2*	*NOx*	*Dust Generating Source(DGS)*	*Distance from DGS*
19-May-25	Sanamahitala Village	114	40	19	26.57	36.32		
19-May-25	Kankarei Village	141	55	27	15.02	28.93		
19-May-25	Balichandrapur Village	167	56	31	13.43	23.46		
20-May-25	Kankarei Village	128	50	24	15.02	25.26		
20-May-25	Balichandrapur Village	156	52	29	17.52	27.24		
20-May-25	North East of the Mine, Solda Village	140	53	26	27.13	24.76	Coal Transportation Road	About 2km
20-May-25	Banabaspur Village	146	49	27	10.51	27.49		
20-May-25	Sanamahitala Village	146	56	27	18.21	29.72		
25-May-25	Kankarei Village	166	65	31	17.10	38.79		
26-May-25	Banabaspur Village	162	55	29	11.06	24.24		
26-May-25	Sanamahitala Village	130	51	23	14.99	35.19		
26-May-25	Balichandrapur Village	146	49	27	17.10	26.41		
26-May-25	North East of the Mine, Solda Village	125	43	21	15.77	24.52	Coal Transportation Road	About 2km
26-May-25	Kankarei Village	188	73	36	18.18	28.15		
27-May-25	North East of the Mine, Solda Village	154	57	28	18.31	20.80	Coal Transportation Road	About 2km
27-May-25	Banabaspur Village	175	60	31	15.02	36.75		
27-May-25	Sanamahitala Village	123	46	21	14.75	31.20		
27-May-25	Balichandrapur Village	123	41	23	10.01	33.96		

*NAAQS,2009		100	60	80	80

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Balram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
05-May-25	Purunasahi Village	142	55	27	14.87	19.10		
05-May-25	East of the Mine, Natedi Village	148	55	26	13.89	34.92	Coal Transportation Road	About 2km
05-May-25	North West of the Mine, Solda Village (Reported Only)	155	66	31	18.60	35.97	Coal Transportation Road	About 2km
05-May-25	Natada Village	162	64	30	13.46	21.90	Anthropogenic Activities, Local	About 2km
06-May-25	North West of the Mine, Solda Village (Reported Only)	170	73	34	10.92	19.81	Coal Transportation Road	About 2km
06-May-25	Purunasahi Village	159	64	31	11.78	34.67		
06-May-25	Natada Village	137	51	24	17.39	35.97	Anthropogenic Activities, Local	About 2km
06-May-25	East of the Mine, Natedi Village	161	62	29	12.10	21.46	Coal Transportation Road	About 2km
12-May-25	Natada Village	147	57	28	14.60	33.84	Anthropogenic Activities, Local	About 2km
12-May-25	North West of the Mine, Solda Village (Reported Only)	134	53	25	19.03	34.17	Coal Transportation Road	About 2km
12-May-25	Purunasahi Village	150	60	28	17.75	28.93		
12-May-25	East of the Mine, Natedi Village	167	65	32	13.89	31.94	Coal Transportation Road	About 2km
13-May-25	North West of the Mine, Solda Village (Reported Only)	147	59	29	22.08	36.40	Coal Transportation Road	About 2km
13-May-25	Purunasahi Village	165	71	33	10.74	32.69		
13-May-25	East of the Mine, Natedi Village	151	54	28	12.01	33.43	Coal Transportation Road	About 2km
13-May-25	Natada Village	135	50	25	17.52	34.67	Anthropogenic Activities, Local	About 2km
19-May-25	Purunasahi Village	149	39	20	15.53	30.50		
19-May-25	North West of the Mine, Solda Village (Reported Only)	132	47	23	22.89	31.94	Coal Transportation Road	About 2km
19-May-25	East of the Mine, Natedi Village	130	48	25	19.19	32.19	Coal Transportation Road	About 2km
19-May-25	Natada Village	172	65	33	17.27	21.54	Anthropogenic Activities, Local	About 2km
20-May-25	North West of the Mine, Solda Village (Reported Only)	140	53	26	27.13	24.76	Coal Transportation Road	About 2km
20-May-25	Purunasahi Village	132	49	25	18.21	35.97		

*NAAQS,2009		100	60	80	80

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Project :	Balram OCP	(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
20-May-25	Natada Village	158	57	31	16.14	30.46	Anthropogenic Activities, Local	About 2km
20-May-25	East of the Mine, Natedi Village	126	41	23	11.06	21.90	Coal Transportation Road	About 2km
26-May-25	Natada Village	150	51	28	15.43	30.46	Anthropogenic Activities, Local	About 2km
26-May-25	Purunasahi Village	127	43	22	22.49	21.11		
26-May-25	East of the Mine, Natedi Village	129	49	26	14.62	24.24	Coal Transportation Road	About 2km
26-May-25	North West of the Mine, Solda Village (Reported Only)	125	43	21	15.77	24.52	Coal Transportation Road	About 2km
27-May-25	North West of the Mine, Solda Village (Reported Only)	154	57	28	18.31	20.80	Coal Transportation Road	About 2km
27-May-25	East of the Mine, Natedi Village	119	45	24	14.26	28.23	Coal Transportation Road	About 2km
27-May-25	Purunasahi Village	136	53	25	21.37	19.31		
27-May-25	Natada Village	157	55	29	18.97	17.54	Anthropogenic Activities, Local	About 2km

*NAAQS,2009		100	60	80	80

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Balichandrapur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	12.58	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
06-May-2025	<20.0	16.50	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
12-May-2025	<20.0	12.32	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
13-May-2025	<20.0	17.55	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
19-May-2025	<20.0	22.02	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
20-May-2025	<20.0	24.37	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
26-May-2025	<20.0	24.37	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
27-May-2025	<20.0	19.65	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Kankarei Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	22.80	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
06-May-2025	<20.0	14.42	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
12-May-2025	<20.0	19.92	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
13-May-2025	<20.0	13.88	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
19-May-2025	<20.0	20.70	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
20-May-2025	<20.0	12.58	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
25-May-2025	<20.0	11.78	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
26-May-2025	<20.0	22.27	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Solada Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	25.93	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
06-May-2025	<20.0	23.85	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
12-May-2025	<20.0	17.03	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
13-May-2025	<20.0	23.58	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
19-May-2025	<20.0	22.27	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
20-May-2025	<20.0	11.00	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
26-May-2025	<20.0	15.20	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
27-May-2025	<20.0	15.20	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Banabaspur Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	16.25	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
06-May-2025	<20.0	26.47	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
12-May-2025	<20.0	14.15	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
13-May-2025	<20.0	25.93	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
19-May-2025	<20.0	23.05	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
20-May-2025	<20.0	18.35	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
26-May-2025	<20.0	27.25	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
27-May-2025	<20.0	16.25	<0.1	<1.0	<1.0	0.5	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Sanamahitala Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	15.47	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
06-May-2025	<20.0	23.32	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
12-May-2025	<20.0	19.65	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
13-May-2025	<20.0	13.88	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
19-May-2025	<20.0	13.37	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
20-May-2025	<20.0	15.72	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
26-May-2025	<20.0	14.42	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
27-May-2025	<20.0	11.27	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**East Mine, Natedi Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	20.18	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
06-May-2025	<20.0	13.10	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
12-May-2025	<20.0	25.42	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
13-May-2025	<20.0	13.88	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
19-May-2025	<20.0	20.43	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
20-May-2025	<20.0	24.37	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
26-May-2025	<20.0	12.05	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
27-May-2025	<20.0	16.77	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Natada Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	12.05	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
06-May-	<20.0	23.32	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
12-May-2025	<20.0	26.73	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
13-May-2025	<20.0	21.75	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
19-May-2025	<20.0	20.43	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
20-May-2025	<20.0	14.15	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
26-May-2025	<20.0	12.58	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
27-May-2025	<20.0	25.93	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Purunasahi Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	17.82	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
06-May-2025	<20.0	20.43	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
12-May-2025	<20.0	26.20	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
13-May-2025	<20.0	17.03	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
19-May-2025	<20.0	26.98	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
20-May-2025	<20.0	21.48	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
26-May-2025	<20.0	19.65	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
27-May-2025	<20.0	22.02	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Solada Village (Reported Only)**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
05-May-2025	<20.0	25.93	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
06-May-2025	<20.0	23.85	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
12-May-2025	<20.0	17.03	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
13-May-2025	<20.0	23.58	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
19-May-2025	<20.0	22.27	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
20-May-2025	<20.0	11.00	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
26-May-2025	<20.0	15.20	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
27-May-2025	<20.0	15.20	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
08-May-2025	1.3
22-May-2025	1.4
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
08-May-2025	1.5
22-May-2025	1.6
Standard	**02(8 Hours)**

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
15-May-25	South West Side of the Mine	63.1	43.3
15-May-25	Solda Village	49.7	37.9
15-May-25	Kankarei Village	43.3	38.1
15-May-25	Time Office	71.8	59.5
29-May-25	South West Side of the Mine	64.2	54.2
29-May-25	Solda Village	47.3	39.1
29-May-25	Kankarei Village	47.1	39.1
29-May-25	Time Office	65.4	55.8

MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 75dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70dB(A) (Industrial)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 55dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 65dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55dB(A) (Commercial)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
15-May-25	Natada Village	45.3	34.2
15-May-25	Solada Village (Reported only)	59.7	43.9
15-May-25	Near Natedi Village	52.3	39.1
15-May-25	Pump House Near Outsourcing Working Patch	70.3	52.7
15-May-25	Near Project Office Balram OCP	69.9	57.4
29-May-25	Natada Village	45.9	37.8
29-May-25	Solada Village (Reported only)	47.3	39.1
29-May-25	Near Natedi Village	45.7	39.1
29-May-25	Pump House Near Outsourcing Working Patch	62.4	53.7
29-May-25	Near Project Office Balram OCP	64.1	51.3

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

EFFLUENT QUALITY DATA

Area : ***Hingula***

(All dimensions are in mg/l unless otherwise stated except pH)

Project : ***Balram OCP***

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
15-May-25	Gandhisagar (Mine Sump)	7.87	<4.0	16	8	-	
15-May-25	Inlet of O & G Trap	7.46	<4.0	53	36	-	
15-May-25	Outlet of O & G Trap	7.57	<4.0	39	24	-	
31-May-25	Inlet of O & G Trap	7.33	<4.0	43	40	-	
31-May-25	Outlet of O & G Trap	7.34	<4.0	31	28	-	

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Hingula OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
15-May-25	Inlet of O & G Trap	7.18	<4.0	58	48	-	
15-May-25	Mine Sump Water	6.76	<4.0	26	16	-	
15-May-25	Outlet of O & G Trap	7.39	<4.0	37	20	-	
31-May-25	Inlet of O & G Trap	6.89	<4.0	44	32	-	
31-May-25	Outlet of O & G Trap	7.07	<4.0	38	28	-	

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
15-May-25	STP Inlet of Balram Colony	6.97	-	45		<2	120
15-May-25	STP Outlet of Balram Colony	7.15	-	33	-	<2	84
31-May-25	STP Inlet of Balram Colony	6.79	-	44	-	<2.0	70
31-May-25	STP Outlet of Balram Colony	7.11	-	32	-	<2	38

G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	**6.5-9.0**	**-**	**<100**	**-**	**30**	**<1000**

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	15-May-2025	15-May-2025	15-May-2025	Acceptable	Permissible
Colour(Hazen)	3	2	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	3	2	1	5
pH	7.04	6.98	7.83	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	37.82	67.23	71.43	200	600
Chloride(mg/L)	19.45	15.56	17.50	250	1000
Sulphate(mg/L)	90.36	67.68	165.7	200	400
Nitrate(mg/L)	3.13	1.05	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	143.42	123.5	258.96	200	600
Calcium(mg/L)	39.92	35.13	70.27	75	200
Fluoride(mg/L)	0.72	0.46	1.06	1	1.5
Total Dissolve Solid(mg/L)	246	230	408	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.12	1.0	No relaxation
Zinc(mg/L)	0.05	<0.04	0.05	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	15-May-2025	15-May-2025	15-May-2025	Acceptable	Permissible
Colour(Hazen)	4	1	3	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	3	1	2	1	5
pH	7.96	7.90	7.71	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	256.32	50.42	63.03	200	600
Chloride(mg/L)	54.46	9.72	15.56	250	1000
Sulphate(mg/L)	7.53	9.50	128.05	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	179.28	59.76	219.12	200	600
Calcium(mg/L)	36.73	15.97	63.88	75	200
Fluoride(mg/L)	0.82	0.50	0.90	1	1.5
Total Dissolve Solid(mg/L)	416	108	344	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	0.26	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	15-May-2025	15-May-2025	15-May-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	8.70	10.73	10.90		
Potassium(mg/L)	4.32	6.48	9.08		
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	15-May-2025	15-May-2025	15-May-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	32.67	5.33	4.52	–	–
Potassium(mg/L)	23.68	2.70	5.55	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Environmental Monitoring Report
Of
Hingula Area
For
June-2025

Talcher Coalfield

Mahanadi Coalfields Limited



Central Mine Planning & Design Institute Ltd.
(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)
[Assistance from Environment Division, CMPDI(HQs), Ranchi]

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Hingula OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
13-Jun-25	Time Office	171	74	35	13.97	31.98	Mining Operations and Haul Road	About 200m
13-Jun-25	South West Side of the Mine	175	79	37	14.93	29.62	Mining Operations	About 300m
21-Jun-25	Time Office	177	80	36	15.14	20.47	Mining Operations and Haul Road	About 200m
21-Jun-25	South West Side of the Mine	205	90	41	16.58	29.54	Mining Operations	About 300m

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MoEF Standards Notification dated 25th September,2000	500	250		120	120

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
13-Jun-25	Pump House near Outsourcing Working Patch	170	58	31	11.68	21.41	Mining Operation And Coal Transportation Road	About 200m
13-Jun-25	Near Project Office	185	78	38	10.27	26.04	Mining Activities	About 500m
30-Jun-25	Pump House near Outsourcing Working Patch	215	96	44	16.58	29.62	Mining Operation And Coal Transportation Road	About 200m
30-Jun-25	Near Project Office	203	87	40	12.43	24.17	Mining Activities	About 500m

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MoEF Standards Notification dated 25th September,2000	600	300		120	120

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
02-Jun-25	Kankarei Village	168	66	31	17.51	27.85		
02-Jun-25	Sanamahitala Village	124	43	23	16.17	24.31		
02-Jun-25	Balichandrapur Village	147	61	29	13.03	23.15		
02-Jun-25	Banabaspur Village	144	57	28	11.78	31.98		
02-Jun-25	Solda Village	138	52	27	17.51	33.76	Coal Transportation Road	About 2km
03-Jun-25	Solda Village	128	47	25	14.40	25.58	Coal Transportation Road	About 2km
03-Jun-25	Banabaspur Village	117	44	23	13.68	28.86		
03-Jun-25	Sanamahitala Village	130	50	25	10.27	29.66		
03-Jun-25	Kankarei Village	138	48	26	13.97	27.98		
03-Jun-25	Balichandrapur Village	123	46	25	17.02	29.58		
09-Jun-25	Balichandrapur Village	113	43	22	15.34	25.82		
09-Jun-25	Banabaspur Village	123	53	26	12.02	25.06		
09-Jun-25	Kankarei Village	155	62	30	16.15	30.38		
09-Jun-25	Solda Village	116	41	23	14.74	23.63	Coal Transportation Road	About 2km
09-Jun-25	Sanamahitala Village	125	39	21	13.97	23.99		
10-Jun-25	Solda Village	109	37	20	11.06	20.98	Coal Transportation Road	About 2km
10-Jun-25	Sanamahitala Village	136	53	27	13.19	18.64		
10-Jun-25	Banabaspur Village	109	40	22	11.61	29.62		
10-Jun-25	Balichandrapur Village	141	54	28	11.78	22.39		
10-Jun-25	Kankarei Village	129	47	24	11.35	29.58		
16-Jun-25	Balichandrapur Village	129	54	26	16.19	24.59		
16-Jun-25	Kankarei Village	155	59	29	15.83	17.26		
16-Jun-25	Sanamahitala Village	119	44	21	15.71	28.78		
16-Jun-25	Banabaspur Village	123	49	25	16.58	34.94		
16-Jun-25	Solda Village	134	53	25	17.89	24.78	Coal Transportation Road	About 2km

*NAAQS,2009		100	60	80	80

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Project :	Hingula OCP	(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
17-Jun-25	Sanamahitala Village	154	49	26	15.34	29.62		
17-Jun-25	Banabaspur Village	116	46	23	16.58	19.53		
17-Jun-25	Solda Village	145	58	27	17.82	30.38	Coal Transportation Road	About 2km
17-Jun-25	Balichandrapur Village	133	56	27	16.99	18.99		
17-Jun-25	Kankarei Village	112	47	21	16.18	31.83		
23-Jun-25	Balichandrapur Village	125	52	25	16.98	18.08		
23-Jun-25	Banabaspur Village	135	55	28	12.90	35.45		
23-Jun-25	Kankarei Village	116	49	22	11.05	34.72		
23-Jun-25	Sanamahitala Village	144	47	23	14.51	25.82		
23-Jun-25	Solda Village	127	43	21	14.09	30.38	Coal Transportation Road	About 2km
24-Jun-25	Balichandrapur Village	105	34	16	12.90	37.13		
24-Jun-25	Kankarei Village	169	63	30	16.58	28.93		
24-Jun-25	Sanamahitala Village	161	64	29	16.16	28.86		
24-Jun-25	Solda Village	136	49	24	14.92	24.31	Coal Transportation Road	About 2km
24-Jun-25	Banabaspur Village	155	65	30	12.65	27.98		
27-Jun-25	Balichandrapur Village	140	52	28	16.59	37.13		
27-Jun-25	Solda Village	149	56	30	16.32	28.14	Coal Transportation Road	About 2km
27-Jun-25	Banabaspur Village	110	46	22	17.04	40.51		
27-Jun-25	Kankarei Village	144	52	28	11.45	24.59		
27-Jun-25	Sanamahitala Village	151	52	24	10.81	21.13		
28-Jun-25	Banabaspur Village	134	51	27	17.45	44.77		
28-Jun-25	Kankarei Village	138	48	25	13.09	16.79		
28-Jun-25	Sanamahitala Village	114	43	20	10.45	21.13		
28-Jun-25	Solda Village	112	40	19	15.75	28.10	Coal Transportation Road	About 2km
28-Jun-25	Balichandrapur Village	131	47	26	17.51	24.47		

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*NAAQS,2009		100	60	80	80

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AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Balram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
02-Jun-25	Purunasahi Village	136	57	28	14.74	31.23		
02-Jun-25	East of the Mine, Natedi Village	128	48	25	14.10	27.34	Coal Transportation Road	About 2km
02-Jun-25	Natada Village	152	61	29	15.08	19.33	Anthropogenic Activities, Local	About 2km
02-Jun-25	Solda Village (Reported Only)	138	52	27	17.51	33.76	Coal Transportation Road	About 2km
03-Jun-25	East of the Mine, Natedi Village	119	46	24	15.79	30.38	Coal Transportation Road	About 2km
03-Jun-25	Solda Village (Reported Only)	128	47	25	14.40	25.58	Coal Transportation Road	About 2km
03-Jun-25	Natada Village	137	52	26	15.00	28.21	Anthropogenic Activities, Local	About 2km
03-Jun-25	Purunasahi Village	133	49	25	11.35	31.18		
09-Jun-25	East of the Mine, Natedi Village	110	42	21	10.66	23.87	Coal Transportation Road	About 2km
09-Jun-25	Solda Village (Reported Only)	116	41	23	14.74	23.63	Coal Transportation Road	About 2km
09-Jun-25	Purunasahi Village	141	51	27	12.90	33.76		
09-Jun-25	Natada Village	118	46	24	10.78	23.55	Anthropogenic Activities, Local	About 2km
10-Jun-25	Solda Village (Reported Only)	109	37	20	11.06	20.98	Coal Transportation Road	About 2km
10-Jun-25	Purunasahi Village	119	46	22	13.97	31.18		
10-Jun-25	Natada Village	159	66	31	13.09	27.19	Anthropogenic Activities, Local	About 2km
10-Jun-25	East of the Mine, Natedi Village	135	51	27	17.04	26.16	Coal Transportation Road	About 2km
16-Jun-25	Natada Village	121	38	18	14.51	26.58	Anthropogenic Activities, Local	About 2km
16-Jun-25	Purunasahi Village	166	69	30	13.09	27.98		
16-Jun-25	East of the Mine, Natedi Village	142	51	28	14.09	15.95	Coal Transportation Road	About 2km
16-Jun-25	Solda Village (Reported Only)	134	53	25	17.89	24.78	Coal Transportation Road	About 2km
17-Jun-25	Natada Village	146	53	25	18.42	21.10	Anthropogenic Activities, Local	About 2km
17-Jun-25	Purunasahi Village	157	54	26	18.42	26.16		
17-Jun-25	East of the Mine, Natedi Village	138	47	26	16.99	26.58	Coal Transportation Road	About 2km
*NAAQS,2009			100	60	80	80		

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Project :	Balram OCP	(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
17-Jun-25	Solda Village (Reported Only)	145	58	27	17.82	30.38	Coal Transportation Road	About 2km
23-Jun-25	East of the Mine, Natedi Village	118	39	19	13.68	21.27	Coal Transportation Road	About 2km
23-Jun-25	Purunasahi Village	145	48	24	13.68	28.10		
23-Jun-25	Solda Village (Reported Only)	127	43	21	14.09	30.38	Coal Transportation Road	About 2km
23-Jun-25	Natada Village	115	46	20	14.92	18.99	Anthropogenic Activities, Local	About 2km
24-Jun-25	East of the Mine, Natedi Village	133	44	25	15.34	28.10	Coal Transportation Road	About 2km
24-Jun-25	Natada Village	127	50	22	19.34	23.63	Anthropogenic Activities, Local	About 2km
24-Jun-25	Purunasahi Village	125	45	22	15.00	26.04		
24-Jun-25	Solda Village (Reported Only)	136	49	24	14.92	24.31	Coal Transportation Road	About 2km
27-Jun-25	Solda Village (Reported Only)	149	56	30	16.32	28.14	Coal Transportation Road	About 2km
27-Jun-25	Natada Village	117	42	18	12.81	22.10	Anthropogenic Activities, Local	About 2km
27-Jun-25	Purunasahi Village	115	41	19	15.07	23.48		
27-Jun-25	East of the Mine, Natedi Village	121	40	22	15.75	21.27	Coal Transportation Road	About 2km
28-Jun-25	East of the Mine, Natedi Village	106	37	19	15.04	34.00	Coal Transportation Road	About 2km
28-Jun-25	Natada Village	125	49	21	14.60	12.30	Anthropogenic Activities, Local	About 2km
28-Jun-25	Purunasahi Village	142	48	23	18.53	34.85		
28-Jun-25	Solda Village (Reported Only)	112	40	19	15.75	28.10	Coal Transportation Road	About 2km

*NAAQS,2009		100	60	80	80

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Kankarei Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	20.33	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
03-Jun-2025	<20.0	25.53	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
09-Jun-2025	<20.0	16.87	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
10-Jun-2025	<20.0	22.32	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
16-Jun-2025	<20.0	13.13	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jun-2025	<20.0	14.13	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
23-Jun-2025	<20.0	16.62	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
24-Jun-2025	<20.0	16.12	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
27-Jun-2025	<20.0	17.35	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
28-Jun-2025	<20.0	20.58	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Solada Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	20.33	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
03-Jun-2025	<20.0	22.32	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
09-Jun-2025	<20.0	26.78	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
10-Jun-2025	<20.0	16.62	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
16-Jun-2025	<20.0	22.07	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
17-Jun-2025	<20.0	22.57	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
23-Jun-2025	<20.0	21.57	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
24-Jun-2025	<20.0	23.05	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
27-Jun-2025	<20.0	27.27	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
28-Jun-2025	<20.0	13.13	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Banabaspur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	23.05	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
03-Jun-2025	<20.0	19.08	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
09-Jun-2025	<20.0	27.27	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
10-Jun-2025	<20.0	17.10	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
16-Jun-2025	<20.0	19.58	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
17-Jun-2025	<20.0	19.58	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
23-Jun-2025	<20.0	21.57	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
24-Jun-2025	<20.0	17.60	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
27-Jun-2025	<20.0	12.65	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
28-Jun-2025	<20.0	14.38	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Sanamahitala Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	24.80	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
03-Jun-2025	<20.0	13.38	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
09-Jun-2025	<20.0	18.85	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
10-Jun-2025	<20.0	24.55	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
16-Jun-2025	<20.0	14.63	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
17-Jun-2025	<20.0	15.37	<0.1	<1.0	<1.0	0.4	BQL(QL =0.7)	BQL
23-Jun-2025	<20.0	25.28	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
24-Jun-2025	<20.0	20.08	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
27-Jun-2025	<20.0	19.83	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
28-Jun-2025	<20.0	26.78	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Balichandrapur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	23.05	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
03-Jun-2025	<20.0	22.32	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
09-Jun-2025	<20.0	15.12	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
10-Jun-2025	<20.0	13.63	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
16-Jun-2025	<20.0	19.08	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
17-Jun-2025	<20.0	17.35	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
23-Jun-2025	<20.0	15.37	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
24-Jun-2025	<20.0	18.35	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Jun-2025	<20.0	22.82	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
28-Jun-2025	<20.0	24.55	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**East Mine, Natedi Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	21.32	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
03-Jun-2025	<20.0	13.88	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
09-Jun-2025	<20.0	26.78	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
10-Jun-2025	<20.0	22.07	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
16-Jun-2025	<20.0	20.33	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
17-Jun-2025	<20.0	25.03	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
23-Jun-2025	<20.0	20.83	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
24-Jun-2025	<20.0	26.53	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
27-Jun-2025	<20.0	15.87	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
28-Jun-2025	<20.0	23.30	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Natada Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	13.88	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
03-Jun-2025	<20.0	22.57	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
09-Jun-2025	<20.0	20.33	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
10-Jun-2025	<20.0	12.90	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
16-Jun-2025	<20.0	17.10	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
17-Jun-2025	<20.0	24.55	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
23-Jun-2025	<20.0	21.07	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
24-Jun-2025	<20.0	18.85	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
27-Jun-2025	<20.0	17.35	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
28-Jun-2025	<20.0	18.10	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Purunasahi Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	13.63	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
03-Jun-2025	<20.0	16.87	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
09-Jun-2025	<20.0	20.58	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
10-Jun-2025	<20.0	24.05	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
16-Jun-2025	<20.0	20.83	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
17-Jun-2025	<20.0	25.03	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
23-Jun-2025	<20.0	25.53	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
24-Jun-2025	<20.0	16.37	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Jun-2025	<20.0	24.30	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
28-Jun-2025	<20.0	22.07	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Solada Village (Reported Only)**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
02-Jun-2025	<20.0	20.33	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
03-Jun-2025	<20.0	22.32	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
09-Jun-2025	<20.0	26.78	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
10-Jun-2025	<20.0	16.62	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Jun-2025	<20.0	22.07	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
17-Jun-2025	<20.0	22.57	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
23-Jun-2025	<20.0	21.57	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
24-Jun-2025	<20.0	23.05	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Jun-2025	<20.0	16.12	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
28-Jun-2025	<20.0	13.13	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
13-Jun-2025	1.1
21-Jun-2025	1.2
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
13-Jun-2025	1.3
21-Jun-2025	1.1
Standard	**02(8 Hours)**

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
11-Jun-25	South West Side of the Mine	62.4	45.6
11-Jun-25	Solda Village	53.2	40.9
11-Jun-25	Kankarei Village	52.1	43.3
11-Jun-25	Time Office	69.7	57.7
25-Jun-25	South West Side of the Mine	65.3	47.5
25-Jun-25	Solda Village	49.8	40.9
25-Jun-25	Kankarei Village	50.2	41.9
25-Jun-25	Time Office	72.6	60.1

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
11-Jun-25	Natada Village	53.1	44.2
11-Jun-25	Solada Village (Reported only)	53.2	40.9
11-Jun-25	Near Natedi Village	52.3	43.5
11-Jun-25	Pump House Near Outsourcing Working Patch	67.7	47.8
11-Jun-25	Near Project Office Balram OCP	70.1	54.1
25-Jun-25	Natada Village	48.7	39.8
25-Jun-25	Solada Village (Reported only)	49.8	40.9
25-Jun-25	Near Natedi Village	48.8	40.3
25-Jun-25	Pump House Near Outsourcing Working Patch	70.5	49.8
25-Jun-25	Near Project Office Balram OCP	73.00	56.4

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

EFFLUENT QUALITY DATA

Area : ***Hingula***

(All dimensions are in mg/l unless otherwise stated except pH)

Project : ***Hingula OCP***

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
14-Jun-25	Inlet of O & G Trap	7.27	4.6	49	84	-	
14-Jun-25	Mine Sump Water	7.83	<4.0	30	20	-	
14-Jun-25	Outlet of O & G Trap	7.42	<4.0	34	36	-	
28-Jun-25	Inlet of O & G Trap	7.10	4.8	57	96	-	
28-Jun-25	Outlet of O & G Trap	7.28	<4.0	38	52	-	

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : **Hingula**

(All dimensions are in mg/l unless otherwise stated except pH)

Project : **Balram OCP**

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
14-Jun-25	Gandhisagar (Mine Sump)	8.07	<4.0	17	12	-	
14-Jun-25	Inlet of O & G Trap	7.72	<4.0	33	40	-	
14-Jun-25	Outlet of O & G Trap	7.97	<4.0	26	24	-	
28-Jun-25	Inlet of O & G Trap	7.61	<4.0	32	24	-	
28-Jun-25	Outlet of O & G Trap	7.69	<4.0	19	12	-	

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : ***Hingula***

(All dimensions are in mg/l unless otherwise stated except pH)

Project : ***Balram OCP***

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
14-Jun-25	STP Inlet of Balram Colony	7.20	-	46		<2	110
14-Jun-25	STP Outlet of Balram Colony	7.33	-	29	-	<2	70
28-Jun-25	STP Inlet of Balram Colony	6.87	-	43	-	<2	120
28-Jun-25	STP Outlet of Balram Colony	6.90	-	32	-	<2	70

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G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	**6.5-9.0**	**-**	**<100**	**-**	**30**	**<1000**

Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	13-Jun-2025	13-Jun-2025	13-Jun-2025	Acceptable	Permissible
Colour(Hazen)	2	3	3	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	3	2	2	1	5
pH	7.04	8.03	7.38	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	117.66	243.72	75.64	200	600
Chloride(mg/L)	31.12	40.84	99.19	250	1000
Sulphate(mg/L)	55.16	10.66	51.92	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	167.33	179.3	211.15	200	600
Calcium(mg/L)	39.92	35.13	57.49	75	200
Fluoride(mg/L)	0.54	0.67	0.36	1	1.5
Total Dissolve Solid(mg/L)	298	378	472	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.07	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	<0.04	<0.04	0.29	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	13-Jun-2025	13-Jun-2025	13-Jun-2025	Acceptable	Permissible
Colour(Hazen)	2	3	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	2	3	1	5
pH	6.72	7.74	7.37	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	67.23	71.43	260.52	200	600
Chloride(mg/L)	17.50	17.50	54.46	250	1000
Sulphate(mg/L)	67.2	165.1	8.34	200	400
Nitrate(mg/L)	4.17	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	135.46	250.99	187.25	200	600
Calcium(mg/L)	36.73	67.07	36.73	75	200
Fluoride(mg/L)	0.32	0.81	0.78	1	1.5
Total Dissolve Solid(mg/L)	238	388	424	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	13-Jun-2025	13-Jun-2025	13-Jun-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	15.33	19.57	21.34	–	–
Potassium(mg/L)	3.35	4.49	20.07	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	13-Jun-2025	13-Jun-2025	13-Jun-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	14.41	14.58	22.65	–	–
Potassium(mg/L)	3.41	3.62	1.55	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Surface Water Quality Data
Hingula Area

Project/OCP	Hingula				IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Singadhajhor stream near Kumunda Village	Singadhajhor stream near Baghabaspur Village	Sinia Jhor near meeting Singhada Jhor	Pond water of Kankarei village	
Date of sampling	14-Jun-25	14-Jun-25	14-Jun-25	14-Jun-25	
pH	7.30	7.37	7.40	6.07	6.5-8.5
Color (Hazen unit)	3	3	2	2	300
Dissolved Oxygen(mg/L)	6.4	6.1	6.8	6.3	4
BOD (3 days 27°c(mg/L)	<2	<2	<2	<2	3
Chlorides(mg/L)	21.42	21.42	25.31	15.58	600
Sulphate(mg/L)	82.73	80.00	74.81	77.53	400
Nitrate(mg/L)	14.67	15.10	2.97	12.3	50
Fluoride(mg/L)	0.33	0.35	0.96	0.50	1.5
Total Hardness(mg/L)	183.02	198.94	274.54	175.07	-
Total dissolved solids (mg/L)	256	254	322	238	1500
TSS(mg/L)	24	26	26	44	-
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	50
Zinc(mg/L)	0.06	<0.04	0.06	0.24	15
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.1
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.01
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	–
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.2
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Chromium(as $Cr^{6)}$(mg/L)	<0.05	<0.05	<0.05	<0.05	0.05
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.005
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0	0.1
MPN (Index/100 ml)	79	94	84	120	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2

Kattamuri

Chief Chemist
CMPDI (HQ) LAB
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Surface Water Quality Data
Hingula Area

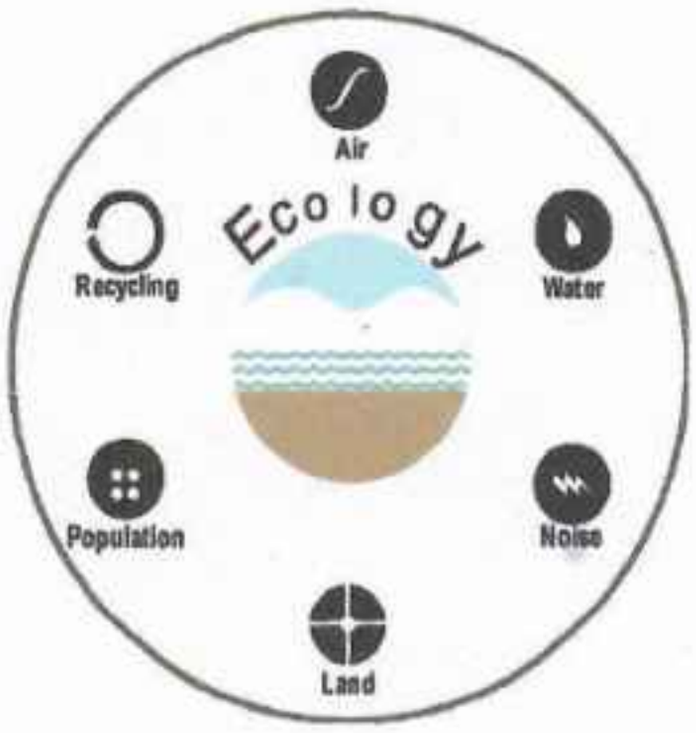
Project/OCP	Balram			
NAME OF STATIONS	Upstream of Bangaru Jhor	Downstream Bangaru Jhor near Nakeipasi village	Pond water of Ambapal village	IS:2296-1982 Tolerance for inland Surface water (Class C)
Date of sampling	14-Jun-25	14-Jun-25	14-Jun-25	
pH	7.82	7.15	6.82	6.5-8.5
Color (Hazen unit)	6	6	2	300
Dissolved Oxygen(mg/L)	6.8	6.2	6.4	4
BOD (3 days 27°c(mg/L)	<2	<2	<2	3
Chlorides(mg/L)	17.52	27.26	72.04	600
Sulphate(mg/L)	219.48	261.04	42.47	400
Nitrate(mg/L)	1.97	5.04	3.63	50
Fluoride(mg/L)	0.86	0.98	0.69	1.5
Total Hardness(mg/L)	179.05	190.98	115.39	-
Total dissolved solids (mg/L)	578	642	246	1500
TSS(mg/L)	46	54	40	-
Copper(mg/L)	<0.03	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	<0.1	<0.1	50
Zinc(mg/L)	0.05	0.06	0.13	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.1
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.01
Total Chromium (mg/L)	<0.01	<0.01	<0.01	–
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.2
Selenium(mg/L)	<0.005	<0.005	<0.005	0.05
Chromium(as $Cr^{6)}$(mg/L)	<0.05	<0.05	<0.05	0.05
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.005
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	0.1
MPN (Index/100 ml)	94	120	94	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2

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Environmental Monitoring Report
Of
Hingula Area
For
July-2025

Talcher Coalfield

Mahanadi Coalfields Limited



Central Mine Planning & Design Institute Ltd.
(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)
[Assistance from Environment Division, CMPDI(HQs), Ranchi]

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
09-Jul-25	Time Office	186	87	39	10.55	28.78	Mining Operations and Haul Road	About 200m
09-Jul-25	South West Side of the Mine	208	104	45	14.62	27.34	Mining Operations	About 300m
25-Jul-25	Time Office	216	96	44	11.54	16.64	Mining Operations and Haul Road	About 200m
25-Jul-25	South West Side of the Mine	205	90	43	13.78	27.34	Mining Operations	About 300m
MoEF Standards Notification dated 25th September,2000		500	250		120	120		

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
09-Jul-25	Pump House near Outsourcing Working Patch	188	87	41	13.63	29.58	Mining Operation And Coal Transportation Road	About 200m
09-Jul-25	Near Project Office	183	88	43	14.20	27.34	Mining Activities	About 500m
25-Jul-25	Pump House near Outsourcing Working Patch	183	89	38	13.37	29.62	Mining Operation And Coal Transportation Road	About 200m
25-Jul-25	Near Project Office	205	90	43	12.91	16.57	Mining Activities	About 500m

MoEF Standards Notification dated 25th September,2000	600	300		120	120	

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Jul-25	Solda Village	138	53	25	18.47	30.38	Coal Transportation Road	About 2km
01-Jul-25	Banabaspur Village	115	38	20	14.20	17.47		
01-Jul-25	Kankarei Village	131	43	25	14.85	20.25		
01-Jul-25	Sanamahitala Village	146	50	27	12.53	27.01		
01-Jul-25	Balichandrapur Village	139	51	27	19.35	29.58		
02-Jul-25	Balichandrapur Village	114	40	22	18.03	19.19		
02-Jul-25	Banabaspur Village	145	53	28	16.27	24.78		
02-Jul-25	Kankarei Village	163	62	30	17.15	27.18		
02-Jul-25	Sanamahitala Village	133	45	24	16.29	23.55		
02-Jul-25	Solda Village	124	38	17	16.71	29.62	Coal Transportation Road	About 2km
07-Jul-25	Sanamahitala Village	128	41	22	13.00	33.76		
07-Jul-25	Balichandrapur Village	131	46	25	18.47	22.39		
07-Jul-25	Kankarei Village	141	49	26	16.71	26.38		
07-Jul-25	Solda Village	146	53	28	10.86	28.10	Coal Transportation Road	About 2km
07-Jul-25	Banabaspur Village	133	41	24	11.60	26.16		
08-Jul-25	Solda Village	119	44	22	13.00	26.16	Coal Transportation Road	About 2km
08-Jul-25	Kankarei Village	129	44	23	18.56	32.91		
08-Jul-25	Banabaspur Village	126	38	22	18.91	24.78		
08-Jul-25	Sanamahitala Village	114	35	20	13.19	25.58		
08-Jul-25	Balichandrapur Village	119	43	21	12.07	23.63		
14-Jul-25	Solda Village	144	50	26	14.51	24.78	Coal Transportation Road	About 2km
14-Jul-25	Sanamahitala Village	139	58	26	13.00	31.23		
14-Jul-25	Kankarei Village	155	59	29	15.39	23.19		
14-Jul-25	Balichandrapur Village	141	58	31	19.35	25.58		
14-Jul-25	Banabaspur Village	145	48	27	20.42	24.47		

*NAAQS,2009		100	60	80	80

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Project : **Hingula OCP** *(conc. in µg/cu.m.)*

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
15-Jul-25	Kankarei Village	125	46	22	19.03	30.38		
15-Jul-25	Sanamahitala Village	114	35	18	19.35	27.98		
15-Jul-25	Banabaspur Village	144	55	29	18.56	29.54		
15-Jul-25	Balichandrapur Village	129	49	28	18.91	34.38		
15-Jul-25	Solda Village	137	47	25	19.49	26.16	Coal Transportation Road	About 2km
21-Jul-25	Solda Village	124	40	18	19.03	23.63	Coal Transportation Road	About 2km
21-Jul-25	Kankarei Village	139	51	21	12.75	28.78		
21-Jul-25	Balichandrapur Village	133	43	24	9.15	20.98		
21-Jul-25	Sanamahitala Village	127	45	21	13.63	24.78		
21-Jul-25	Banabaspur Village	138	61	26	14.85	18.57		
22-Jul-25	Balichandrapur Village	167	55	26	14.85	20.25		
22-Jul-25	Kankarei Village	170	59	28	10.68	19.99		
22-Jul-25	Banabaspur Village	126	46	19	18.03	25.58		
22-Jul-25	Solda Village	144	46	24	12.73	26.76	Coal Transportation Road	About 2km
22-Jul-25	Sanamahitala Village	123	39	17	15.83	25.58		
28-Jul-25	Solda Village	131	43	21	13.19	26.38	Coal Transportation Road	About 2km
28-Jul-25	Banabaspur Village	140	57	27	10.86	18.23		
28-Jul-25	Balichandrapur Village	133	41	21	17.13	25.82		
28-Jul-25	Sanamahitala Village	143	55	27	14.39	23.63		
28-Jul-25	Kankarei Village	158	54	24	15.39	27.98		
29-Jul-25	Sanamahitala Village	126	47	22	13.19	24.78		
29-Jul-25	Solda Village	163	55	28	10.55	19.99	Coal Transportation Road	About 2km
29-Jul-25	Banabaspur Village	136	49	24	19.49	23.63		
29-Jul-25	Kankarei Village	136	48	20	14.07	31.18		
29-Jul-25	Balichandrapur Village	125	35	19	18.03	22.39		

*NAAQS,2009		100	60	80	80	

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Balram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Jul-25	Kurihan Village (Reported Only)	138	48	27	19.49	22.79		
01-Jul-25	Purunasahi Village	171	68	32	17.96	32.66		
01-Jul-25	East of the Mine, Natedi Village	137	48	25	10.55	19.99	Coal Transportation Road	About 2km
01-Jul-25	Natada Village	127	49	24	13.92	20.25	Anthropogenic Activities, Local	About 2km
01-Jul-25	Solda Village (Reported Only)	138	53	25	18.47	30.38	Coal Transportation Road	About 2km
02-Jul-25	Purunasahi Village	117	46	20	11.43	34.38		
02-Jul-25	Natada Village	117	44	21	15.78	20.25	Anthropogenic Activities, Local	About 2km
02-Jul-25	Kurihan Village (Reported Only)	135	65	29	16.71	23.63		
02-Jul-25	Solda Village (Reported Only)	124	38	17	16.71	29.62	Coal Transportation Road	About 2km
02-Jul-25	East of the Mine, Natedi Village	157	65	32	12.07	21.94	Coal Transportation Road	About 2km
07-Jul-25	Natada Village	146	51	25	18.47	24.78	Anthropogenic Activities, Local	About 2km
07-Jul-25	Solda Village (Reported Only)	146	53	28	10.86	28.10	Coal Transportation Road	About 2km
07-Jul-25	Purunasahi Village	139	56	27	18.10	26.16		
07-Jul-25	East of the Mine, Natedi Village	132	47	24	16.71	25.06	Coal Transportation Road	About 2km
07-Jul-25	Kurihan Village (Reported Only)	116	45	20	17.17	34.60		
08-Jul-25	Purunasahi Village	128	47	22	12.07	20.25		
08-Jul-25	Solda Village (Reported Only)	119	44	22	13.00	26.16	Coal Transportation Road	About 2km
08-Jul-25	Natada Village	160	55	29	15.83	27.98	Anthropogenic Activities, Local	About 2km
08-Jul-25	Kurihan Village (Reported Only)	138	52	24	17.15	27.98		
08-Jul-25	East of the Mine, Natedi Village	118	41	22	12.31	28.78	Coal Transportation Road	About 2km
14-Jul-25	East of the Mine, Natedi Village	116	38	20	12.75	27.18	Coal Transportation Road	About 2km
14-Jul-25	Purunasahi Village	119	44	20	12.53	25.32		
14-Jul-25	Kurihan Village (Reported Only)	109	39	16	17.17	32.91		
*NAAQS,2009			100	60	80	80		

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Project : **Balram OCP**

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
14-Jul-25	Solda Village (Reported Only)	144	50	26	14.51	24.78	Coal Transportation Road	About 2km
14-Jul-25	Natada Village	155	53	27	17.17	32.07	Anthropogenic Activities, Local	About 2km
15-Jul-25	Natada Village	169	74	23	11.70	17.47	Anthropogenic Activities, Local	About 2km
15-Jul-25	Solda Village (Reported Only)	137	47	25	19.49	26.16	Coal Transportation Road	About 2km
15-Jul-25	East of the Mine, Natedi Village	146	50	27	13.92	25.32	Coal Transportation Road	About 2km
15-Jul-25	Purunasahi Village	134	54	25	16.27	23.99		
15-Jul-25	Kurihan Village (Reported Only)	150	65.	31	17.64	28.69		
21-Jul-25	Kurihan Village (Reported Only)	162	49	25	13.19	27.18		
21-Jul-25	Natada Village	155	65	28	12.75	29.58	Anthropogenic Activities, Local	About 2km
21-Jul-25	Purunasahi Village	156	48	27	17.15	19.99		
21-Jul-25	East of the Mine, Natedi Village	129	43	21	14.62	26.58	Coal Transportation Road	About 2km
21-Jul-25	Solda Village (Reported Only)	124	40	18	19.03	23.63	Coal Transportation Road	About 2km
22-Jul-25	Purunasahi Village	114	37	19	14.39	19.41		
22-Jul-25	Kurihan Village (Reported Only)	171	62	27	14.51	17.59		
22-Jul-25	Natada Village	147	47	24	17.15	17.59	Anthropogenic Activities, Local	About 2km
22-Jul-25	Solda Village (Reported Only)	144	46	24	12.73	26.76	Coal Transportation Road	About 2km
22-Jul-25	East of the Mine, Natedi Village	153	65	27	14.20	22.03	Coal Transportation Road	About 2km
28-Jul-25	Kurihan Village (Reported Only)	143	46	21	11.87	19.99		
28-Jul-25	Solda Village (Reported Only)	131	43	21	13.19	26.38	Coal Transportation Road	About 2km
28-Jul-25	Purunasahi Village	125	45	22	18.10	25.32		
28-Jul-25	Natada Village	160	44	27	10.86	27.34	Anthropogenic Activities, Local	About 2km
28-Jul-25	East of the Mine, Natedi Village	148	45	23	10.11	21.59	Coal Transportation Road	About 2km
29-Jul-25	Natada Village	178	68	31	11.14	29.54	Anthropogenic Activities, Local	About 2km
29-Jul-25	Solda Village (Reported Only)	163	55	28	10.55	19.99	Coal Transportation Road	About 2km
29-Jul-25	East of the Mine, Natedi Village	114	42	17	10.44	23.55	Coal Transportation Road	About 2km
29-Jul-25	Kurihan Village (Reported Only)	132	38	18	19.03	29.54		
*NAAQS,2009			100	60	80	80		

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Project : **Balram OCP**

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
29-Jul-25	Purunasahi Village	110	39	16	16.71	31.25		
*NAAQS,2009			100	60	80	80		

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Kankarei Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	15.00	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Jul-2025	<20.0	24.25	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
07-Jul-2025	<20.0	15.75	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
08-Jul-2025	<20.0	23.50	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
14-Jul-2025	<20.0	26.25	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
15-Jul-2025	<20.0	13.00	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
21-Jul-2025	<20.0	24.50	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
22-Jul-2025	<20.0	28.00	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
28-Jul-2025	<20.0	17.00	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
29-Jul-2025	<20.0	15.50	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP							
Monitoring Station	Solada Village							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	13.25	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
02-Jul-2025	<20.0	23.25	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
07-Jul-2025	<20.0	21.25	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
08-Jul-2025	<20.0	12.50	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
14-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
15-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
21-Jul-2025	<20.0	23.00	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
22-Jul-2025	<20.0	21.50	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
28-Jul-2025	<20.0	27.50	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
29-Jul-2025	<20.0	15.50	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Banabaspur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	22.00	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
02-Jul-2025	<20.0	19.00	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
07-Jul-2025	<20.0	23.75	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
08-Jul-2025	<20.0	20.50	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
14-Jul-2025	<20.0	25.75	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
15-Jul-2025	<20.0	25.25	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
21-Jul-2025	<20.0	21.00	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
22-Jul-2025	<20.0	24.25	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
28-Jul-2025	<20.0	15.75	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
29-Jul-2025	<20.0	27.50	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP							
Monitoring Station	Sanamahitala Village							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	12.50	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
02-Jul-2025	<20.0	11.75	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
07-Jul-2025	<20.0	28.50	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
08-Jul-2025	<20.0	22.50	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
14-Jul-2025	<20.0	22.75	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
15-Jul-2025	<20.0	24.75	<0.1	<1.0	<1.0	0.4	BQL(QL =0.7)	BQL
21-Jul-2025	<20.0	12.25	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
22-Jul-2025	<20.0	20.50	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
28-Jul-2025	<20.0	27.25	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
29-Jul-2025	<20.0	20.25	<0.1	<1.0	<1.0	0.4	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP							
Monitoring Station	Balichandrapur Village							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	16.75	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
02-Jul-2025	<20.0	27.00	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
07-Jul-2025	<20.0	16.00	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
08-Jul-2025	<20.0	15.25	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
14-Jul-2025	<20.0	13.50	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
15-Jul-2025	<20.0	22.50	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
21-Jul-2025	<20.0	18.75	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
22-Jul-2025	<20.0	15.00	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
28-Jul-2025	<20.0	21.25	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
29-Jul-2025	<20.0	13.75	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Balram OCP							
Monitoring Station	Solada Village (Reported Only)							
Date of sampling	Ammonia (NH_3) (µg/m3)	Ozone (O_3) (µg/m3)	Lead (Pb) (µg/m3)	Arsenic (As) (ng/m3)	Nickel (Ni) (ng/m3)	CO (mg/m^3)	Benzo (α) Pyrene (ng/m^3)	Benzene (µg/m3)
01-Jul-2025	<20.0	13.25	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
02-Jul-2025	<20.0	23.25	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
07-Jul-2025	<20.0	21.25	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
08-Jul-2025	<20.0	12.50	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
14-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
15-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
21-Jul-2025	<20.0	23.00	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
22-Jul-2025	<20.0	21.50	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
28-Jul-2025	<20.0	27.50	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
29-Jul-2025	<20.0	15.50	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Purunasahi Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	11.75	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
02-Jul-2025	<20.0	27.50	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
07-Jul-2025	<20.0	14.25	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
08-Jul-2025	<20.0	14.50	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
14-Jul-2025	<20.0	24.75	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
15-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
21-Jul-2025	<20.0	19.25	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
22-Jul-2025	<20.0	14.75	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
28-Jul-2025	<20.0	25.75	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
29-Jul-2025	<20.0	17.25	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**East Mine, Natedi Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	17.50	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
02-Jul-2025	<20.0	16.50	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
07-Jul-2025	<20.0	11.75	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
08-Jul-2025	<20.0	22.50	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
14-Jul-2025	<20.0	19.00	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
15-Jul-2025	<20.0	16.00	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
21-Jul-2025	<20.0	27.25	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
22-Jul-2025	<20.0	19.50	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
28-Jul-2025	<20.0	18.50	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
29-Jul-2025	<20.0	13.75	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Natada Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	23.50	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
02-Jul-2025	<20.0	13.25	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
07-Jul-2025	<20.0	24.75	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
08-Jul-2025	<20.0	24.00	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
14-Jul-2025	<20.0	22.75	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
15-Jul-2025	<20.0	22.75	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
21-Jul-2025	<20.0	13.25	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
22-Jul-2025	<20.0	15.00	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
28-Jul-2025	<20.0	17.25	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
29-Jul-2025	<20.0	19.75	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Kurihan Village (Reported Only)**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Jul-2025	<20.0	27.00	<0.1	<1.0	<1.0	0.4	BQL(QL= 0.7)	BQL
02-Jul-2025	<20.0	24.75	<0.1	<1.0	<1.0	0.5	BQL(QL= 0.7)	BQL
07-Jul-2025	<20.0	14.25	<0.1	<1.0	<1.0	0.4	BQL(QL= 0.7)	BQL
08-Jul-2025	<20.0	28.25	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
14-Jul-2025	<20.0	18.50	<0.1	<1.0	<1.0	0.5	BQL(QL= 0.7)	BQL
15-Jul-2025	<20.0	21.25	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
21-Jul-2025	<20.0	11.75	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
22-Jul-2025	<20.0	27.25	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
28-Jul-2025	<20.0	28.50	<0.1	<1.0	<1.0	0.5	BQL(QL= 0.7)	BQL
29-Jul-2025	<20.0	24.00	<0.1	<1.0	<1.0	0.4	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA

Area: Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
09-Jul-2025	0.7
25-Jul-2025	0.9
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
09-Jul-2025	1.0
25-Jul-2025	0.8
Standard	**02(8 Hours)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**				
Monitoring Station	**Time Office**				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	*(ng/m3)*	*(ng/m3)*	*(µg/m3)*	*(µg/m3)*
22-May-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	**Hingula OCP**				
Monitoring Station	**South West Side of the Mine**				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	*(ng/m3)*	*(ng/m3)*	*(µg/m3)*	*(µg/m3)*
22-May-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	**Balram OCP**				
Monitoring Station	**Near Project Office**				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	*(ng/m3)*	*(ng/m3)*	*(µg/m3)*	*(µg/m3)*
22-May-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	**Balram OCP**				
Monitoring Station	**Pump House near Outsourcing Working Patch**				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	*(ng/m3)*	*(ng/m3)*	*(µg/m3)*	*(µg/m3)*
22-May-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
11-Jul-25	South West Side of the Mine	63.3	52.5
11-Jul-25	Solda Village	47.8	39.6
11-Jul-25	Kankarei Village	49.5	40.1
11-Jul-25	Time Office	68.6	59.1
26-Jul-25	South West Side of the Mine	65.3	53.0
26-Jul-25	Solda Village	49.2	40.0
26-Jul-25	Kankarei Village	51.0	40.6
26-Jul-25	Time Office	70.7	59.7

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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CMPDI, RI-VII, LAB
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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
11-Jul-25	Natada Village	44.6	38.9
11-Jul-25	Solada Village (Reported only)	47.8	39.6
11-Jul-25	Near Natedi Village	46.7	40.3
11-Jul-25	Pump House Near Outsourcing Working Patch	62.5	53.8
11-Jul-25	Near Project Office Balram OCP	64.2	55.4
26-Jul-25	Natada Village	45.9	39.9
26-Jul-25	Solada Village (Reported only)	49.2	40.0
26-Jul-25	Near Natedi Village	48.2	40.8
26-Jul-25	Pump House Near Outsourcing Working Patch	64.5	51.5
26-Jul-25	Near Project Office Balram OCP	68.3	56.0

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Hingula OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
16-Jul-25	Inlet of O & G Trap	7.04	5.2	69	108	-	
16-Jul-25	Mine Sump Water	8.06	<4.0	36	28	-	
16-Jul-25	Outlet of O & G Trap	7.57	4.2	41	64	-	
31-Jul-25	Inlet of O & G Trap	8.23	5.6	76	120	-	
31-Jul-25	Outlet of O & G Trap	8.55	4.2	45	56	-	
MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents		**5.5-9.0**	**10**	**100**	**250**	**30**	

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
16-Jul-25	Gandhisagar (Mine Sump)	7.67	<4.0	26	24	-	
16-Jul-25	Inlet of O & G Trap	7.76	4.4	43	56	-	
16-Jul-25	Outlet of O & G Trap	7.91	<4.0	31	32	-	
31-Jul-25	Inlet of O & G Trap	8.31	4.4	55	72	-	
31-Jul-25	Outlet of O & G Trap	8.38	<4.0	38	36	-	

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
16-Jul-25	STP Inlet of Balram Colony	6.88	-	41		3.4	210
16-Jul-25	STP Outlet of Balram Colony	7.15	-	28	-	2.1	79
31-Jul-25	STP Inlet of Balram Colony	7.38	-	57	-	4.2	240
31-Jul-25	STP Outlet of Balram Colony	8.17	-	30	-	2.4	116

G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	**6.5-9.0**	**-**	**<100**	**-**	**30**	**<1000**

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	16-Jul-2025	16-Jul-2025	16-Jul-2025	Acceptable	Permissible
Colour(Hazen)	2	3	3	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	3	4	3	1	5
pH	6.74	7.51	7.19	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	117.66	252.12	88.24	200	600
Chloride(mg/L)	36.9	40.8	93.3	250	1000
Sulphate(mg/L)	68.8	10.31	44.8	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	172.57	184.33	223.55	200	600
Calcium(mg/L)	48.73	36.16	62.88	75	200
Fluoride(mg/L)	0.63	0.74	0.53	1	1.5
Total Dissolve Solid(mg/L)	316	346	354	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.1	1.0	No relaxation
Zinc(mg/L)	0.15	0.55	0.53	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.005	<0.005	<0.005	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	16-Jul-2025	16-Jul-2025	16-Jul-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	15.81	12.90	12.90	–	–
Potassium(mg/L)	12.66	14.27	14.27	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	16-Jul-2025	16-Jul-2025	16-Jul-2025	Acceptable	Permissible
Colour(Hazen)	1	2	2	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	2	3	1	5
pH	6.59	7.23	7.10	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	75.64	71.43	252.12	200	600
Chloride(mg/L)	25.3	23.3	54.4	250	1000
Sulphate(mg/L)	56.4	134.6	8.74	200	400
Nitrate(mg/L)	4.60	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	137.27	215.71	200.02	200	600
Calcium(mg/L)	34.58	61.31	45.59	75	200
Fluoride(mg/L)	0.37	0.88	0.58	1	1.5
Total Dissolve Solid(mg/L)	226	354	344	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.1	1.0	No relaxation
Zinc(mg/L)	0.20	1.16	0.13	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.005	<0.005	<0.005	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	16-Jul-2025	16-Jul-2025	16-Jul-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	11.88	12.39	5.15	–	–
Potassium(mg/L)	1.98	10.34	2.26	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Hingula OCP
Legend
Monitoring Station
Banabaspur Village
Solada Village
Kankarai Village
Time Office
Balichandrapur Village
South West Side of the Mine
Sanamahitala Village
Google Earth
N


Balram OCP
Legend
Monitoring Station
Khajuria Village
Solada Village
Pump House near Outsourcing Working Patch
Purunasahi Village
Near Project Office
Natada Village
Natedi Village
Google Earth
3 km
N

Environmental Monitoring Report
Of
Hingula Area
For
August-2025

Talcher Coalfield

Mahanadi Coalfields Limited



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A Mini Ratna Company

Central Mine Planning & Design Institute Ltd.

(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)

[Assistance from Environment Division, CMPDI(HQs), Ranchi]

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
13-Aug-25	Time Office	215	97	42	12.22	16.36	Mining Operations and Haul Road	About 200m
13-Aug-25	South West Side of the Mine	206	93	41	11.81	24.52	Mining Operations	About 300m
30-Aug-25	Time Office	201	94	40	17.50	21.90	Mining Operations and Haul Road	About 200m
30-Aug-25	South West Side of the Mine	207	97	43	14.87	17.83	Mining Operations	About 300m

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MoEF Standards Notification dated 25th September,2000	500	250		120	120

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Aug-25	Balichandrapur Village	156	61	28	11.81	32.69		
01-Aug-25	Banabaspur Village	117	43	20	18.42	19.55		
01-Aug-25	Solda Village	113	34	18	16.19	17.83	Coal Transportation Road	About 2km
01-Aug-25	Kankarei Village	161	65	28	17.01	25.59		
01-Aug-25	Sanamahitala Village	108	40	18	13.81	35.97		
02-Aug-25	Kankarei Village	117	35	18	17.01	22.29		
02-Aug-25	Balichandrapur Village	114	34	16	17.08	24.06		
02-Aug-25	Solda Village	118	47	24	19.25	29.72	Coal Transportation Road	About 2km
02-Aug-25	Banabaspur Village	114	32	17	16.04	18.98		
02-Aug-25	Sanamahitala Village	153	52	28	13.56	28.97		
08-Aug-25	Sanamahitala Village	135	42	22	19.34	35.19		
08-Aug-25	Kankarei Village	136	52	25	12.64	20.64		
08-Aug-25	Solda Village	133	43	22	17.04	35.97	Coal Transportation Road	About 2km
08-Aug-25	Banabaspur Village	163	55	29	18.88	18.77		
08-Aug-25	Balichandrapur Village	133	50	25	10.59	28.15		
09-Aug-25	Solda Village	137	57	25	11.81	30.46	Coal Transportation Road	About 2km
09-Aug-25	Banabaspur Village	115	42	23	16.58	17.99		
09-Aug-25	Sanamahitala Village	139	46	25	14.27	20.33		
09-Aug-25	Balichandrapur Village	125	44	21	11.37	20.80		
09-Aug-25	Kankarei Village	128	43	21	12.69	22.29		
18-Aug-25	Banabaspur Village	110	36	15	19.34	32.06		
18-Aug-25	Solda Village	121	38	17	13.12	26.00	Coal Transportation Road	About 2km
18-Aug-25	Kankarei Village	138	53	22	12.89	25.02		
*NAAQS,2009			100	60	80	80		

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Project :	Hingula OCP	(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
18-Aug-25	Sanamahitala Village	123	46	18	18.47	21.46		
18-Aug-25	Balichandrapur Village	113	39	21	12.89	22.68		
19-Aug-25	Kankarei Village	144	61	27	16.58	34.41		
19-Aug-25	Balichandrapur Village	156	52	30	20.26	32.06		
19-Aug-25	Solda Village	126	49	23	16.58	21.11	Coal Transportation Road	About 2km
19-Aug-25	Banabaspur Village	119	48	21	17.06	17.09		
19-Aug-25	Sanamahitala Village	136	59	25	11.51	21.11		
25-Aug-25	Solda Village	132	53	26	10.83	19.10	Coal Transportation Road	About 2km
25-Aug-25	Sanamahitala Village	131	49	20	17.96	32.06		
25-Aug-25	Kankarei Village	113	45	17	10.06	26.74		
25-Aug-25	Banabaspur Village	157	66	30	15.20	30.50		
25-Aug-25	Balichandrapur Village	125	44	23	17.50	27.49		
26-Aug-25	Solda Village	143	55	29	16.25	18.40	Coal Transportation Road	About 2km
26-Aug-25	Banabaspur Village	128	51	26	16.19	20.06		
26-Aug-25	Sanamahitala Village	142	53	22	17.96	25.81		
26-Aug-25	Balichandrapur Village	165	73	33	14.74	20.33		
26-Aug-25	Kankarei Village	131	54	20	12.64	22.29		

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*NAAQS,2009		100	60	80	80

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
13-Aug-25	Pump House near Outsourcing Working Patch	188	87	40	20.90	23.11	Mining Operation And Coal Transportation Road	About 200m
13-Aug-25	Near Project Office	188	88	39	17.06	31.94	Mining Activities	About 500m
30-Aug-25	Pump House near Outsourcing Working Patch	205	106	44	16.19	18.57	Mining Operation And Coal Transportation Road	About 200m
30-Aug-25	Near Project Office	185	96	41	10.59	28.15	Mining Activities	About 500m

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MoEF Standards Notification dated 25th September,2000	500	250		120	120

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AMBIENT AIR QUALITY DATA

Area : Hingula **(Reference Station)**

Project : Balram OCP **(conc. in µg/cu.m.)**

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Aug-25	East of the Mine, Natedi Village	126	44	21	14.16	22.64	Coal Transportation Road	About 2km
01-Aug-25	Kurihan Village (Reported Only)	149	59	28	17.94	20.80		
01-Aug-25	Solda Village (Reported Only)	113	34	18	16.19	17.83	Coal Transportation Road	About 2km
01-Aug-25	Natada Village	112	33	17	10.94	22.29	Anthropogenic Activities, Local	About 2km
01-Aug-25	Purunasahi Village	170	65	32	21.39	37.14		
02-Aug-25	Natada Village	145	66	29	13.61	38.79	Anthropogenic Activities, Local	About 2km
02-Aug-25	East of the Mine, Natedi Village	137	43	24	8.75	23.64	Coal Transportation Road	About 2km
02-Aug-25	Solda Village (Reported Only)	118	47	24	19.25	29.72	Coal Transportation Road	About 2km
02-Aug-25	Kurihan Village (Reported Only)	140	50	24	13.81	27.37		
02-Aug-25	Purunasahi Village	145	56	27	17.04	25.81		
08-Aug-25	Purunasahi Village	129	44	23	16.58	32.06		
08-Aug-25	Natada Village	129	55	26	14.58	38.79	Anthropogenic Activities, Local	About 2km
08-Aug-25	Solda Village (Reported Only)	133	43	22	17.04	35.97	Coal Transportation Road	About 2km
08-Aug-25	Kurihan Village (Reported Only)	131	39	20	14.74	18.77		
08-Aug-25	East of the Mine, Natedi Village	126	49	20	11.97	35.19	Coal Transportation Road	About 2km
09-Aug-25	Solda Village (Reported Only)	137	57	25	11.81	30.46	Coal Transportation Road	About 2km
09-Aug-25	Kurihan Village (Reported Only)	126	47	23	16.66	23.35		
09-Aug-25	Purunasahi Village	144	49	26	20.90	35.49		
09-Aug-25	East of the Mine, Natedi Village	123	40	18	13.75	21.93	Coal Transportation Road	About 2km
09-Aug-25	Natada Village	113	49	22	15.51	21.61	Anthropogenic Activities, Local	About 2km
18-Aug-25	Kurihan Village (Reported Only)	176	69	31	17.04	24.24		
18-Aug-25	Solda Village (Reported Only)	121	38	17	13.12	26.00	Coal Transportation Road	About 2km
18-Aug-25	Natada Village	112	41	19	17.91	22.64	Anthropogenic Activities, Local	About 2km
*NAAQS,2009			100	60	80	80		

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Project : **Balram OCP**

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
18-Aug-25	Purunasahi Village	114	43	19	11.51	31.28		
18-Aug-25	East of the Mine, Natedi Village	158	75	33	14.87	27.49	Coal Transportation Road	About 2km
19-Aug-25	Natada Village	155	54	26	17.96	18.77	Anthropogenic Activities, Local	About 2km
19-Aug-25	East of the Mine, Natedi Village	121	40	24	17.06	30.46	Coal Transportation Road	About 2km
19-Aug-25	Solda Village (Reported Only)	126	49	23	16.58	21.11	Coal Transportation Road	About 2km
19-Aug-25	Kurihan Village (Reported Only)	137	55	26	14.27	18.77		
19-Aug-25	Purunasahi Village	127	55	26	14.58	33.84		
25-Aug-25	Solda Village (Reported Only)	132	53	26	10.83	19.10	Coal Transportation Road	About 2km
25-Aug-25	Purunasahi Village	163	67	29	15.55	29.72		
25-Aug-25	Natada Village	127	51	22	18.47	20.64	Anthropogenic Activities, Local	About 2km
25-Aug-25	Kurihan Village (Reported Only)	123	44	20	16.19	17.83		
25-Aug-25	East of the Mine, Natedi Village	149	59	28	17.04	30.50	Coal Transportation Road	About 2km
26-Aug-25	Solda Village (Reported Only)	143	55	29	16.25	18.40	Coal Transportation Road	About 2km
26-Aug-25	Kurihan Village (Reported Only)	128	52	24	16.04	18.98		
26-Aug-25	Purunasahi Village	139	53	24	13.35	25.81		
26-Aug-25	East of the Mine, Natedi Village	141	43	25	11.05	25.02	Coal Transportation Road	About 2km
26-Aug-25	Natada Village	135	59	18	18.88	29.72	Anthropogenic Activities, Local	About 2km

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**NAAQS,2009*		100	60	80	80

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Kankarei Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	21.48	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
02-Aug-2025	<20.0	13.85	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
08-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
09-Aug-2025	<20.0	16.68	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
18-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Aug-2025	<20.0	14.98	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
25-Aug-2025	<20.0	11.87	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
26-Aug-2025	<20.0	23.18	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Solada Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
02-Aug-2025	<20.0	20.63	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
08-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.6	BQL(QL= 0.7)	BQL
09-Aug-2025	<20.0	15.83	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
18-Aug-2025	<20.0	13.28	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
19-Aug-2025	<20.0	16.40	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
25-Aug-2025	<20.0	17.53	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
26-Aug-2025	<20.0	14.42	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Banabaspur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	20.35	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Aug-2025	<20.0	21.20	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
08-Aug-2025	<20.0	13.85	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
09-Aug-2025	<20.0	18.10	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
18-Aug-2025	<20.0	20.92	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
19-Aug-2025	<20.0	17.53	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
25-Aug-2025	<20.0	12.43	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
26-Aug-2025	<20.0	16.40	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP							
Monitoring Station	Sanamahitala Village							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	18.10	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
02-Aug-2025	<20.0	24.03	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
08-Aug-2025	<20.0	15.27	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
09-Aug-2025	<20.0	21.48	<0.1	<1.0	<1.0	1.1	BQL(QL =0.7)	BQL
18-Aug-2025	<20.0	18.93	<0.1	<1.0	<1.0	1.1	BQL(QL =0.7)	BQL
19-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
25-Aug-2025	<20.0	20.35	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
26-Aug-2025	<20.0	23.18	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Balichandrapur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Aug-2025	<20.0	19.78	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
08-Aug-2025	<20.0	13.28	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
09-Aug-2025	<20.0	18.65	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
18-Aug-2025	<20.0	17.53	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
19-Aug-2025	<20.0	14.98	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
25-Aug-2025	<20.0	23.47	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
26-Aug-2025	<20.0	11.87	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Balram OCP							
Monitoring Station	Solada Village (Reported Only)							
Date of sampling	Ammonia (NH_3) (µg/m3)	Ozone (O_3) (µg/m3)	Lead (Pb) (µg/m3)	Arsenic (As) (ng/m3)	Nickel (Ni) (ng/m3)	CO (mg/m^3)	Benzo (α) Pyrene (ng/m^3)	Benzene (µg/m3)
01-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
02-Aug-2025	<20.0	20.63	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
08-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
09-Aug-2025	<20.0	15.83	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
18-Aug-2025	<20.0	13.28	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
19-Aug-2025	<20.0	16.40	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
25-Aug-2025	<20.0	17.53	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
26-Aug-2025	<20.0	14.42	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Balram OCP
Monitoring Station	East Mine, Natedi Village

Date of sampling	Ammonia (NH_3) (µg/m3)	Ozone (O_3) (µg/m3)	Lead (Pb) (µg/m3)	Arsenic (As) (ng/m3)	Nickel (Ni) (ng/m3)	CO (mg/m³)	Benzo (α) Pyrene (ng/m³)	Benzene (µg/m3)
01-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2025	<20.0	14.98	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2025	<20.0	16.40	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
09-Aug-2025	<20.0	18.10	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
18-Aug-2025	<20.0	20.63	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
19-Aug-2025	<20.0	21.20	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
25-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
26-Aug-2025	<20.0	21.48	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Balram OCP
Monitoring Station	Natada Village

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(mg/m³)	(ng/m³)	(µg/m3)
01-Aug-2025	<20.0	15.27	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2025	<20.0	14.42	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2025	<20.0	12.43	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
09-Aug-2025	<20.0	19.22	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
18-Aug-2025	<20.0	19.22	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
19-Aug-2025	<20.0	11.30	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
25-Aug-2025	<20.0	21.48	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
26-Aug-2025	<20.0	13.57	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Balram OCP							
Monitoring Station	Purunasahi Village							
Date of sampling	Ammonia (NH_3) (µg/m3)	Ozone (O_3) (µg/m3)	Lead (Pb) (µg/m3)	Arsenic (As) (ng/m3)	Nickel (Ni) (ng/m3)	CO (mg/m^3)	Benzo (α) Pyrene (ng/m^3)	Benzene (µg/m3)
01-Aug-2025	<20.0	18.10	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
02-Aug-2025	<20.0	22.05	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
08-Aug-2025	<20.0	14.70	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
09-Aug-2025	<20.0	15.55	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
18-Aug-2025	<20.0	11.58	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
19-Aug-2025	<20.0	16.12	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
25-Aug-2025	<20.0	19.22	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
26-Aug-2025	<20.0	19.22	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Kurihan Village (Reported Only)**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Aug-2025	<20.0	16.97	<0.1	<1.0	<1.0	1.4	BQL(QL= 0.7)	BQL
02-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	1.3	BQL(QL= 0.7)	BQL
08-Aug-2025	<20.0	13.85	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
09-Aug-2025	<20.0	13.57	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
18-Aug-2025	<20.0	23.75	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
19-Aug-2025	<20.0	24.32	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
25-Aug-2025	<20.0	22.33	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
26-Aug-2025	<20.0	14.42	<0.1	<1.0	<1.0	1.4	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA

Area: Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
13-Aug-2025	0.8
30-Aug-2025	0.9
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
13-Aug-2025	0.7
30-Aug-2025	0.8
Standard	**02(8 Hours)**

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
07-Aug-25	South West Side of the Mine	69.0	54.3
07-Aug-25	Solda Village	47.1	40.2
07-Aug-25	Kankarei Village	49.9	38.7
07-Aug-25	Time Office	65.7	56.6
23-Aug-25	South West Side of the Mine	62.3	55.9
23-Aug-25	Solda Village	47.1	39.1
23-Aug-25	Kankarei Village	46.8	38.5
23-Aug-25	Time Office	65.1	55.6

MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 75dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70dB(A) (Industrial)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 55dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 65dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55dB(A) (Commercial)
MoEF Standard Notification dated 25th September, 2000	6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
07-Aug-25	Natada Village	43.3	38.6
07-Aug-25	Solada Village (Reported only)	47.1	40.2
07-Aug-25	Near Natedi Village	45.0	38.3
07-Aug-25	Pump House Near Outsourcing Working Patch	66.9	52.9
07-Aug-25	Near Project Office Balram OCP	66.3	54.1
23-Aug-25	Natada Village	43.9	38.5
23-Aug-25	Solada Village (Reported only)	47.1	39.1
23-Aug-25	Near Natedi Village	44.4	36.3
23-Aug-25	Pump House Near Outsourcing Working Patch	66.9	55.7
23-Aug-25	Near Project Office Balram OCP	64.7	32.9

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Hingula OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
14-Aug-25	Inlet of O & G Trap	7.58	5.6	71	128	-	
14-Aug-25	Mine Sump Water	7.95	<4.0	30	28	-	
14-Aug-25	Outlet of O & G Trap	7.84	4.2	39	48	-	
30-Aug-25	Inlet of O & G Trap	7.42	<4.0	39	36	-	
30-Aug-25	Outlet of O & G Trap	7.56	<4.0	26	24	-	

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	5.5-9.0	10	100	250	30

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
14-Aug-25	Gandhisagar (Mine Sump)	7.26	<4.0	19	16	-	
14-Aug-25	Inlet of O & G Trap	7.83	<4.0	39	40	-	
14-Aug-25	Outlet of O & G Trap	7.71	<4.0	27	24	-	
30-Aug-25	Inlet of O & G Trap	7.87	<4.0	33	32	-	
30-Aug-25	Outlet of O & G Trap	7.90	<4.0	21	20	-	

Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	5.5-9.0	10	100	250	30

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TABLE–

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
14-Aug-25	STP Inlet of Balram Colony	7.27	-	43		2.9	140
14-Aug-25	STP Outlet of Balram Colony	7.07	-	32	-	2.1	94
30-Aug-25	STP Inlet of Balram Colony	7.54	-	45	-	3.2	120
30-Aug-25	STP Outlet of Balram Colony	8.47	-	34	-	2.4	79

Authorised Signatory
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G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	6.5-9.0	-	<100	-	30	<1000

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	14-Aug-2025	14-Aug-2025	14-Aug-2025	Acceptable	Permissible
Colour(Hazen)	4	2	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	3	4	1	5
pH	6.67	7.95	7.25	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	130.26	243.71	373.97	200	600
Chloride(mg/L)	34.97	40.80	79.66	250	1000
Sulphate(mg/L)	72.26	11.97	60.20	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	184.33	188.25	388.27	200	600
Calcium(mg/L)	50.30	34.58	111.61	75	200
Fluoride(mg/L)	0.58	0.66	0.72	1	1.5
Total Dissolve Solid(mg/L)	302	312	592	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	0.05	<0.04	0.12	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	0.11	0.31	0.63	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.005	<0.005	<0.005	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	14-Aug-2025	14-Aug-2025	14-Aug-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	12.86	13.17	18.69	–	–
Potassium(mg/L)	2.99	5.75	10.41	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	14-Aug-2025	14-Aug-2025	14-Aug-2025	Acceptable	Permissible
Colour(Hazen)	2	3	3	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	4	3	1	5
pH	6.91	7.61	7.18	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	75.63	84.04	235.31	200	600
Chloride(mg/L)	29.14	25.25	50.51	250	1000
Sulphate(mg/L)	60.36	118.40	24.80	200	400
Nitrate(mg/L)	25.20	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	149.03	211.78	188.25	200	600
Calcium(mg/L)	42.44	64.45	40.87	75	200
Fluoride(mg/L)	0.46	0.84	0.62	1	1.5
Total Dissolve Solid(mg/L)	270	326	322	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	0.07	0.04	1.35	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.005	<0.005	<0.005	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	14-Aug-2025	14-Aug-2025	14-Aug-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	16.67	14.37	5.71	_	_
Potassium(mg/L)	10.70	3.36	2.15	_	_
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	_	_

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Effluent Quality (all Parameter): Hingula Area

Project (OCP / UG)	Hingula	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	15-May-25	
Odour	Unobjectionable	–
Colour(Hazen)	10	–
Temperature(°C)	26.1	Shall not exceed 5 °C above the receiving temperature
pH	7.86	5.5-9.0
Total Hardness (as$CaCO_3$),mg/L	561.74	-
Total Dissolved Solids, mg/L	746	-
Nitrate Nitrogen(mg/L)(As N)	1.23	10
Ammonical Nitrogen , mg/l (As N)	0.38	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.32	100
Sulphide (mg/L)	<0.1	2
BOD [3 days at 27°C] (mg/L)	<2.0	30
Fluoride(mg/L)	1.15	2
Copper(mg/L)	<0.03	3
Manganese(mg/L)	0.27	2
Iron(mg/L)	<0.1	3
Zinc(mg/L)	<0.04	5
Lead, mg/l	<0.005	0.1
Cadmium, mg/l	<0.001	2
Total Chromium(mg/L)	<0.01	2
Hexavelent Chromium(mg/L)	<0.05	0.1
Nickel(mg/L)	<0.02	3
Arsenic, mg/l	<0.005	0.2
Selenium (mg/L)	<0.005	0.05
Dissolved Phosphate(mg/L)	<4.0	5
Phenolics (mg/L)	<0.001	1

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Effluent Quality (all Parameter): Hingula Area

Project (OCP / UG)	Balaram	MoEF-Sch-VI Standards
NAME OF THE STATION	Gandhisagar Mine Sump Water	
Date of Sampling	15-May-25	
Odour	Unobjectionable	–
Colour(Hazen)	9	–
Temperature(°C)	25.9	Shall not exceed 5 °C above the receiving temperature
pH	7.52	5.5-9.0
Total Hardness (as$CaCO_3$),mg/L	545.18	-
Total Dissolved Solids, mg/L	724	-
Nitrate Nitrogen(mg/L)(As N)	1.44	10
Ammonical Nitrogen , mg/l (As N)	0.28	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.21	100
Sulphide (mg/L)	<0.1	2
BOD [3 days at 27°C] (mg/L)	<2.0	30
Fluoride(mg/L)	1.02	2
Copper(mg/L)	<0.03	3
Manganese(mg/L)	0.23	2
Iron(mg/L)	<0.1	3
Zinc(mg/L)	<0.04	5
Lead, mg/l	<0.005	0.1
Cadmium, mg/l	<0.001	2
Total Chromium(mg/L)	<0.01	2
Hexavelent Chromium(mg/L)	<0.05	0.1
Nickel(mg/L)	<0.02	3
Arsenic, mg/l	<0.005	0.2
Selenium (mg/L)	<0.005	0.05
Dissolved Phosphate(mg/L)	<4.0	5
Phenolics (mg/L)	<0.001	1

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Piezometer Water Quality Data: Hingula Area

Project / OCP	Hingula OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	MTP 14 (inside the premises of Pirakhaam village primary school)	MTP 15 (Beside Sujan Pradhans house in chottaberani village)		
Date of Sampling	03-May-25	05-May-25	Acceptable	Permissible
Colour(Hazen)	1	2	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	2	1	5
pH	7.74	7.34	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	143.48	188.01	200	600
Chloride(mg/L)	27.40	27.40	250	1000
Sulphate(mg/L)	17.79	35.22	200	400
Nitrate(mg/L)	<0.50	7.53	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	131.30	187.00	200	600
Calcium(mg/L)	33.54	63.88	75	200
Fluoride(mg/L)	0.71	0.47	1	1.5
Total Dissolve Solid(mg/L)	218	314	500	2000
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	0.13	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.2	0.01	No relaxation
Selenium (mg/L)	<0.005	<0.001	0.01	No relaxation
Boron(mg/L)	<0.2	<1.8	0.5	2.4
Sodium mg/L	8.34	<0.02	-	-
Potassium mg/L	2.58	<0.002	-	-
Phenolics (mg/L)	<0.001	<0.005	0.001	0.002
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
MPN (Index/100ml)	Not Detected	Not Detected	-	-

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Piezometer Water Quality Data: Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	MTP 10 (inside the premises of Danara high school)	MTP 12 (In Betianali Village, opposite to Sindhu Deori's House)	MTP 17 (inside premises of market bulding, gramina rojgar yojana, Kandhaberani Village)		
Date of Sampling	03-May-25	03-May-25	5-May-25	Acceptable	Permissible
Colour(Hazen)	1	1	1	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	1	1	1	5
pH	6.47	6.55	6.99	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	19.79	39.58	64.32	200	600
Chloride(mg/L)	41.10	19.57	17.61	250	1000
Sulphate(mg/L)	15.19	12.47	24.55	200	400
Nitrate(mg/L)	10.89	4.86	2.29	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	75.60	59.68	83.55	200	600
Calcium(mg/L)	17.57	12.78	23.96	75	200
Fluoride(mg/L)	0.62	0.55	0.59	1	1.5
Total Dissolve Solid(mg/L)	138	104	139	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.38	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	0.07	<0.04	0.05	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Selenium (mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4
Sodium mg/L	9.23	6.18	8.08	-	-
Potassium mg/L	3.77	2.84	0.64	-	-
Phenolics (mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine (mg/L)	<0.2	<0.2	<0.2	0.2	1
MPN (Index/100ml)	Not Detected	Not Detected	Not Detected	-	-

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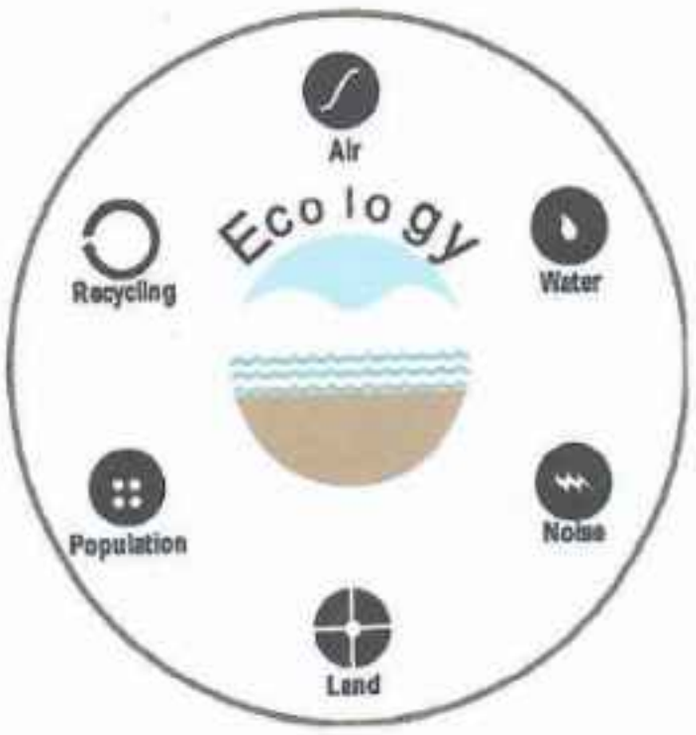

Hingula OCP
Legend
Monitoring Station
Banabaspur Village
Solada Village
Kankarai Village
Time Office
Balichandrapur Village
South West Side of the Mine
Sanamahitala Village
N
Google Earth


Balram OCP
Legend
Monitoring Station
Khajuria Village
Solada Village
Pump House near Outsourcing Working Patch
Purunasahi Village
Near Project Office
Natada Village
Natedi Village
N
Google Earth

Environmental Monitoring Report
Of
Hingula Area
For
September-2025

Talcher Coalfield

Mahanadi Coalfields Limited



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A Mini Ratna Company

Central Mine Planning & Design Institute Ltd.

(A Subsidiary of Coal India Ltd.)

Regional Institute-VII, Samantpuri, P.O : RRL, Bhubaneswar-751013 (Odisha)

[Assistance from Environment Division, CMPDI(HQs), Ranchi]

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Hingula OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
12-Sep-25	Time Office	232	115	47	12.63	29.72	Mining Operations and Haul Road	About 200m
12-Sep-25	South West Side of the Mine	224	105	43	12.21	32.69	Mining Operations	About 300m
26-Sep-25	Time Office	210	106	45	10.02	26.18	Mining Operations and Haul Road	About 200m
26-Sep-25	South West Side of the Mine	131	116	49	10.71	21.61	Mining Operations	About 300m

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MoEF Standards Notification dated 25th September,2000	500	250		120	120

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Compliance Station)

Project : Balaram OCP (conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
12-Sep-25	Pump House near Outsourcing Working Patch	217	107	46	11.08	34.41	Mining Operation And Coal Transportation Road	About 200m
12-Sep-25	Near Project Office	200	85	38	12.85	34.41	Mining Activities	About 500m
26-Sep-25	Pump House near Outsourcing Working Patch	207	105	46	12.40	35.97	Mining Operation And Coal Transportation Road	About 200m
26-Sep-25	Near Project Office	196	95	41	18.94	26.74	Mining Activities	About 500m

Jaswati

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MoEF Standards Notification dated 25th September,2000	600	300		120	120	

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Hingula OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Sep-25	Balichandrapur Village	192	71	35	12.63	22.96		
01-Sep-25	Banabaspur Village	138	61	25	16.84	17.56		
01-Sep-25	Solda Village	107	44	19	18.52	32.69	Coal Transportation Road	About 2km
01-Sep-25	Kankarei Village	136	57	24	17.24	26.18		
01-Sep-25	Sanamahitala Village	172	64	29	16.43	31.13		
02-Sep-25	Kankarei Village	110	36	16	10.42	17.69		
02-Sep-25	Balichandrapur Village	180	66	33	11.08	19.55		
02-Sep-25	Solda Village	176	65	32	13.47	32.69	Coal Transportation Road	About 2km
02-Sep-25	Banabaspur Village	160	76	30	13.89	13.37		
02-Sep-25	Sanamahitala Village	147	47	23	16.84	34.41		
08-Sep-25	Sanamahitala Village	153	72	31	13.73	34.41		
08-Sep-25	Kankarei Village	128	50	22	15.57	28.23		
08-Sep-25	Solda Village	157	53	26	17.24	31.13	Coal Transportation Road	About 2km
08-Sep-25	Banabaspur Village	128	49	23	8.80	31.07		
08-Sep-25	Balichandrapur Village	136	57	28	11.69	12.38		
09-Sep-25	Solda Village	141	44	23	15.69	29.72	Coal Transportation Road	About 2km
09-Sep-25	Banabaspur Village	141	61	27	11.62	19.10		
09-Sep-25	Sanamahitala Village	135	54	23	11.48	29.72		
09-Sep-25	Balichandrapur Village	126	45	22	14.18	34.41		
09-Sep-25	Kankarei Village	141	64	26	13.63	21.23		
15-Sep-25	Banabaspur Village	147	67	29	10.02	33.25		
15-Sep-25	Solda Village	154	74	30	14.83	26.18	Coal Transportation Road	About 2km
15-Sep-25	Kankarei Village	137	52	23	14.27	18.73		
15-Sep-25	Sanamahitala Village	160	73	28	15.69	23.64		
15-Sep-25	Balichandrapur Village	125	45	21	12.24	18.23		

*NAAQS,2009		100	60	80	80

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Project : **Hingula OCP**

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
16-Sep-25	Kankarei Village	126	46	20	11.69	28.89		
16-Sep-25	Balichandrapur Village	146	64	29	10.02	22.64		
16-Sep-25	Solda Village	147	55	26	16.84	24.99	Coal Transportation Road	About 2km
16-Sep-25	Banabaspur Village	128	48	22	11.48	33.09		
16-Sep-25	Sanamahitala Village	121	46	18	18.94	23.77		
19-Sep-25	Solda Village	128	44	19	13.91	30.36	Coal Transportation Road	About 2km
19-Sep-25	Sanamahitala Village	142	60	24	10.94	20.80		
19-Sep-25	Kankarei Village	152	66	28	13.89	33.43		
19-Sep-25	Banabaspur Village	119	41	18	14.16	20.94		
19-Sep-25	Balichandrapur Village	157	71	30	10.82	31.84		
20-Sep-25	Solda Village	143	46	24	12.63	22.29	Coal Transportation Road	About 2km
20-Sep-25	Banabaspur Village	140	59	26	15.95	24.24		
20-Sep-25	Sanamahitala Village	156	78	31	15.15	24.52		
20-Sep-25	Balichandrapur Village	135	54	25	13.05	28.23		
20-Sep-25	Kankarei Village	163	74	31	20.11	22.29		

*NAAQS,2009		100	60	80	80

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Test Report

AMBIENT AIR QUALITY DATA

Area : Hingula (Reference Station)

Project : Balram OCP

(conc. in µg/cu.m.)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
01-Sep-25	Purunasahi Village	149	55	27	18.16	34.41		
01-Sep-25	East of the Mine, Natedi Village	114	38	17	15.99	30.46	Coal Transportation Road	About 2km
01-Sep-25	Solda Village (Reported Only)	107	44	19	18.52	32.69	Coal Transportation Road	About 2km
01-Sep-25	Kurihan Village (Reported Only)	137	53	23	10.94	29.72		
01-Sep-25	Natada Village	160	66	27	13.29	16.42	Anthropogenic Activities, Local	About 2km
02-Sep-25	Solda Village (Reported Only)	176	65	32	13.47	32.69	Coal Transportation Road	About 2km
02-Sep-25	Purunasahi Village	116	37	15	10.33	29.72		
02-Sep-25	Natada Village	161	56	24	17.28	12.51	Anthropogenic Activities, Local	About 2km
02-Sep-25	East of the Mine, Natedi Village	178	69	32	12.63	26.00	Coal Transportation Road	About 2km
02-Sep-25	Kurihan Village (Reported Only)	148	59	27	10.76	28.06		
03-Sep-25	Khajuria Village (Reported Only)	148	65	27	9.22	12.74		
04-Sep-25	Khajuria Village (Reported Only)	145	53	25	14.73	18.57		
08-Sep-25	East of the Mine, Natedi Village	143	63	27	10.94	25.26	Coal Transportation Road	About 2km
08-Sep-25	Kurihan Village (Reported Only)	129	46	20	15.15	15.60		
08-Sep-25	Natada Village	142	51	22	10.94	15.60	Anthropogenic Activities, Local	About 2km
08-Sep-25	Purunasahi Village	140	46	22	14.03	36.32		
08-Sep-25	Solda Village (Reported Only)	157	53	26	17.24	31.13	Coal Transportation Road	About 2km
09-Sep-25	Solda Village (Reported Only)	141	44	23	15.69	29.72	Coal Transportation Road	About 2km
09-Sep-25	Natada Village	133	47	20	15.63	16.98	Anthropogenic Activities, Local	About 2km
09-Sep-25	Purunasahi Village	148	53	25	15.57	32.69		
09-Sep-25	Kurihan Village (Reported Only)	143	56	25	15.01	16.15		
09-Sep-25	East of the Mine, Natedi Village	132	57	23	13.63	33.96	Coal Transportation Road	About 2km
10-Sep-25	Khajuria Village (Reported Only)	136	45	23	13.91	28.42		
11-Sep-25	Khajuria Village (Reported Only)	166	72	31	16.84	37.54		
15-Sep-25	Natada Village	133	47	22	15.74	30.36	Anthropogenic Activities, Local	About 2km

*NAAQS,2009		100	60	80	80

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Project : **Balram OCP** *(conc. in µg/cu.m.)*

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO2	NOx	Dust Generating Source(DGS)	Distance from DGS
15-Sep-25	Solda Village (Reported Only)	154	74	30	14.83	26.18	Coal Transportation Road	About 2km
15-Sep-25	Purunasahi Village	145	63	25	15.90	25.59		
15-Sep-25	East of the Mine, Natedi Village	124	44	20	15.23	33.25	Coal Transportation Road	About 2km
15-Sep-25	Kurihan Village (Reported Only)	155	72	31	11.86	20.26		
16-Sep-25	Solda Village (Reported Only)	147	55	26	16.84	24.99	Coal Transportation Road	About 2km
16-Sep-25	Purunasahi Village	155	72	28	12.16	32.19		
16-Sep-25	Natada Village	152	69	30	17.22	22.29	Anthropogenic Activities, Local	About 2km
16-Sep-25	Kurihan Village (Reported Only)	148	66	27	14.83	29.72		
16-Sep-25	East of the Mine, Natedi Village	137	56	24	15.23	33.96	Coal Transportation Road	About 2km
17-Sep-25	Khajuria Village (Reported Only)	141	53	24	14.03	34.67		
18-Sep-25	Khajuria Village (Reported Only)	145	60	26	18.52	29.72		
19-Sep-25	Kurihan Village (Reported Only)	112	38	17	16.84	36.32		
19-Sep-25	Natada Village	136	55	23	18.16	29.72	Anthropogenic Activities, Local	About 2km
19-Sep-25	Purunasahi Village	131	50	20	15.30	31.07		
19-Sep-25	East of the Mine, Natedi Village	123	43	19	18.16	37.54	Coal Transportation Road	About 2km
19-Sep-25	Solda Village (Reported Only)	128	44	19	13.91	30.36	Coal Transportation Road	About 2km
20-Sep-25	Solda Village (Reported Only)	143	46	24	12.63	22.29	Coal Transportation Road	About 2km
20-Sep-25	Natada Village	157	69	28	13.89	33.43	Anthropogenic Activities, Local	About 2km
20-Sep-25	East of the Mine, Natedi Village	118	34	15	17.30	27.24	Coal Transportation Road	About 2km
20-Sep-25	Purunasahi Village	138	57	23	16.41	28.23		
20-Sep-25	Kurihan Village (Reported Only)	141	59	25	16.84	33.96		
22-Sep-25	Khajuria Village (Reported Only)	149	67	29	16.03	26.89		
23-Sep-25	Khajuria Village (Reported Only)	134	53	23	14.62	31.28		

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*NAAQS,2009		100	60	80	80

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP
Monitoring Station	Kankarei Village

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	21.07	<0.1	<1.0	<1.0	1.1	BQL(QL =0.7)	BQL
02-Sep-2025	<20.0	25.45	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
08-Sep-2025	<20.0	22.98	<0.1	<1.0	<1.0	1.2	BQL(QL =0.7)	BQL
09-Sep-2025	<20.0	20.53	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
15-Sep-2025	<20.0	21.62	<0.1	<1.0	<1.0	1.0	BQL(QL =0.7)	BQL
16-Sep-2025	<20.0	17.25	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
19-Sep-2025	<20.0	21.90	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
20-Sep-2025	<20.0	13.97	<0.1	<1.0	<1.0	1.0	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24 hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Solada Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	26.55	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
02-Sep-2025	<20.0	26.55	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
08-Sep-2025	<20.0	21.35	<0.1	<1.0	<1.0	0.7	BQL(QL= 0.7)	BQL
09-Sep-2025	<20.0	21.62	<0.1	<1.0	<1.0	1.0	BQL(QL= 0.7)	BQL
15-Sep-2025	<20.0	14.78	<0.1	<1.0	<1.0	0.9	BQL(QL= 0.7)	BQL
16-Sep-2025	<20.0	19.98	<0.1	<1.0	<1.0	1.2	BQL(QL= 0.7)	BQL
19-Sep-2025	<20.0	20.25	<0.1	<1.0	<1.0	1.1	BQL(QL= 0.7)	BQL
20-Sep-2025	<20.0	25.18	<0.1	<1.0	<1.0	0.8	BQL(QL= 0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**
Monitoring Station	**Banabaspur Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	19.17	<0.1	<1.0	<1.0	1.2	BQL(QL =0.7)	BQL
02-Sep-2025	<20.0	24.08	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
08-Sep-2025	<20.0	13.42	<0.1	<1.0	<1.0	1.1	BQL(QL =0.7)	BQL
09-Sep-2025	<20.0	26.55	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
15-Sep-2025	<20.0	15.05	<0.1	<1.0	<1.0	1.2	BQL(QL =0.7)	BQL
16-Sep-2025	<20.0	23.82	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
19-Sep-2025	<20.0	23.53	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
20-Sep-2025	<20.0	26.00	<0.1	<1.0	<1.0	1.2	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Sanamahitala Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	13.42	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
02-Sep-2025	<20.0	21.90	<0.1	<1.0	<1.0	1.0	BQL(QL =0.7)	BQL
08-Sep-2025	<20.0	24.37	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
09-Sep-2025	<20.0	18.07	<0.1	<1.0	<1.0	1.0	BQL(QL =0.7)	BQL
15-Sep-2025	<20.0	21.35	<0.1	<1.0	<1.0	0.8	BQL(QL =0.7)	BQL
16-Sep-2025	<20.0	23.53	<0.1	<1.0	<1.0	1.1	BQL(QL =0.7)	BQL
19-Sep-2025	<20.0	24.90	<0.1	<1.0	<1.0	0.9	BQL(QL =0.7)	BQL
20-Sep-2025	<20.0	26.00	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
Standard	**400(24hours)**	**180 (hour)**	**1.0(24hours)**	**6.0(Annual)**	**20 (Annual)**	**02(8hours)**	**01 (annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Hingula OCP**							
Monitoring Station	**Balichandrapur Village**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	25.73	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
02-Sep-2025	<20.0	23.27	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
08-Sep-2025	<20.0	20.53	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
09-Sep-2025	<20.0	26.00	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
15-Sep-2025	<20.0	22.98	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
16-Sep-2025	<20.0	22.72	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
19-Sep-2025	<20.0	18.88	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
20-Sep-2025	<20.0	14.23	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Solada Village (Reported Only)**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	26.55	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
02-Sep-2025	<20.0	26.55	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
08-Sep-2025	<20.0	21.35	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
09-Sep-2025	<20.0	21.62	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
15-Sep-2025	<20.0	14.78	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Sep-2025	<20.0	19.98	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
19-Sep-2025/	<20.0	20.25	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
20-Sep-2025	<20.0	25.18	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**East Mine, Natedi Village**

Date of sampling	Ammonia (NH_3) *(µg/m3)*	Ozone (O_3) *(µg/m3)*	Lead (Pb) *(µg/m3)*	Arsenic (As) *(ng/m3)*	Nickel (Ni) *(ng/m3)*	CO (mg/m^3)	Benzo (α) Pyrene (ng/m^3)	Benzene (µg/m3)
01-Sep-2025	<20.0	16.42	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
02-Sep-2025	<20.0	25.18	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
08-Sep-2025	<20.0	21.07	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
09-Sep-2025	<20.0	12.32	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL(QL=2.5)
15-Sep-2025	<20.0	13.68	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
16-Sep-2025	<20.0	26.28	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
19-Sep-2025	<20.0	18.33	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
20-Sep-2025	<20.0	14.50	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24 hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Natada Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	19.17	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
02-Sep-2025	<20.0	17.25	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
08-Sep-2025	<20.0	15.87	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL(QL=2.5)
09-Sep-2025	<20.0	19.70	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
15-Sep-2025	<20.0	26.28	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
16-Sep-2025	<20.0	19.17	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL(QL=2.5)
19-Sep-2025	<20.0	24.63	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL(QL=2.5)
20-Sep-2025	<20.0	24.90	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL(QL=2.5)
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**
Monitoring Station	**Purunasahi Village**

Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	21.35	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
02-Sep-2025	<20.0	15.05	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
08-Sep-2025	<20.0	25.73	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
09-Sep-2025	<20.0	15.33	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
15-Sep-2025	<20.0	23.27	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
16-Sep-2025	<20.0	16.15	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
19-Sep-2025	<20.0	19.98	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	BQL
20-Sep-2025	<20.0	21.90	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	**Balram OCP**							
Monitoring Station	**Kurihan Village (Reported Only)**							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m3)	*(µg/m3)*	*(µg/m3)*	*(ng/m3)*	*(ng/m3)*	(mg/m^3)	(ng/m^3)	(µg/m3)
01-Sep-2025	<20.0	18.33	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Sep-2025	<20.0	25.73	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
08-Sep-2025	<20.0	25.18	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
09-Sep-2025	<20.0	19.70	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
15-Sep-2025	<20.0	12.32	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Sep-2025	<20.0	15.05	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
19-Sep-2025	<20.0	23.27	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
20-Sep-2025	<20.0	18.88	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	**400(24hours)**	**180(hour)**	**1.0(24hours)**	**6.0(Annual)**	**20(Annual)**	**02(8hours)**	**01(annual)**	**05(annual)**

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AMBIENT AIR QUALITY DATA

Area: Hingula

Project	**Hingula OCP**
Monitoring Station	**Time Office**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
-Sep-2025/	1.1
-Sep-2025/	1.0
Standard	**02(8 Hours)**

Project	**Hingula OCP**
Monitoring Station	**South West side of Mine**
Date of sampling	**Carbon Monoxide (CO)**
	mg/m3
-Sep-2025/	0.9
-Sep-2025/	1.0
Standard	**02(8 Hours)**

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Hingula OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
06-Sep-25	South West Side of the Mine	62.7	53.9
06-Sep-25	Solda Village	46.9	38.9
06-Sep-25	Kankarei Village	47.3	39.0
06-Sep-25	Time Office	69.2	58.1
25-Sep-25	South West Side of the Mine	61.3	52.1
25-Sep-25	Solda Village	45.9	46.1
25-Sep-25	Kankarei Village	47.3	38.7
25-Sep-25	Time Office	65.1	56.0

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE--

NOISE LEVEL MONITORING DATA

AREA : Hingula

PROJECT : Balaram OCP

DATE OF SAMPLING	STATION	Noise Level Measurement in Leq dB(A)	
		DAY	NIGHT
06-Sep-25	Natada Village	43.7	38.1
06-Sep-25	Solada Village (Reported only)	46.9	38.9
06-Sep-25	Near Natedi Village	45.9	37.3
06-Sep-25	Pump House Near Outsourcing Working Patch	65.7	55.3
06-Sep-25	Near Project Office Balram OCP	64.3	52.7
25-Sep-25	Natada Village	43.7	34.2
25-Sep-25	Solada Village (Reported only)	45.9	40.1
25-Sep-25	Near Natedi Village	44.5	36.1
25-Sep-25	Pump House Near Outsourcing Working Patch	67.4	56.7
25-Sep-25	Near Project Office Balram OCP	61.4	52.4

MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 75dB(A) (Industrial)*	*10.00 PM -6.00 AM Leq 70dB(A) (Industrial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 55dB(A) (Residential)*	*10.00 PM -6.00 AM Leq 45dB(A) (Residential)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 65dB(A) (Commercial)*	*10.00 PM -6.00 AM Leq 55dB(A) (Commercial)*
MoEF Standard Notification dated 25th September, 2000	*6.00 AM -10.00 PM Leq 50dB(A) (Silence Zone)*	*10.00 PM -6.00 AM Leq 40dB(A) (Silence Zone)*

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TABLE–

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Hingula OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
13-Sep-25	Inlet of O & G Trap	7.21	<4.0	38	40	-	
13-Sep-25	Mine Sump Water	7.33	<4.0	19	16	-	
13-Sep-25	Outlet of O & G Trap	7.43	<4.0	27	26	-	
27-Sep-25	Inlet of O & G Trap	7.36	4.6	46	56	-	
27-Sep-25	Outlet of O & G Trap	7.73	<4.0	31	32	-	

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE–

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	Remarks
13-Sep-25	Gandhisagar (Mine Sump)	7.61	<4.0	26	20	-	
13-Sep-25	Inlet of O & G Trap	7.54	4.4	37.	68	-	
13-Sep-25	Outlet of O & G Trap	7.77	<4.0	31	36	-	
27-Sep-25	Inlet of O & G Trap	7.63	4.8	45	60	-	
27-Sep-25	Outlet of O & G Trap	7.90	<4.0	29	32	-	

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MoEF Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	**5.5-9.0**	**10**	**100**	**250**	**30**

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TABLE--

EFFLUENT QUALITY DATA

Area : Hingula

(All dimensions are in mg/l unless otherwise stated except pH)

Project : Balram OCP

Date of Sampling	Sampling Station	pH	Oil & Grease	TSS	COD	BOD	MPN/100mL
13-Sep-25	STP Inlet of Balram Colony	7.56	-	46		3.2	156
13-Sep-25	STP Outlet of Balram Colony	7.87	-	30	-	<2.0	79
27-Sep-25	STP Inlet of Balram Colony	7.67	-	43	-	3.4	170
27-Sep-25	STP Outlet of Balram Colony	8.01	-	31	-	2.2	94

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G.S.R. 1265(E) Effluent discharge standards (applicable to all mode of disposal), Sewage Treatment Plants (STPs)	6.5-9.0	-	<100	-	30	<1000

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Effluent Quality (all Parameter): Hingula Area

Project (OCP / UG)	Hingula	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	30-Aug-25	
Odour	Unobjectionable	–
Colour(Hazen)	5	–
Temperature(oC)	28.9	Shall not exceed 5 °C above the receiving temperature
pH	8.10	5.5-9.0
Total Hardness (asCaCO3),mg/L	508.61	–
Total Dissolved Solids, mg/L	951	–
Nitrate Nitrogen(mg/L)(As N)	<0.11	10
Ammonical Nitrogen , mg/l (As N)	0.70	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.52	100
Sulphide (mg/L)	<0.1	2
BOD [3 days at 27°C] (mg/L)	3.4	30
Fluoride(mg/L)	0.55	2
Copper(mg/L)	<0.03	3
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Zinc(mg/L)	<0.04	5
Lead, mg/l	<0.005	0.1
Cadmium, mg/l	<0.001	2.0
Total Chromium(mg/L)	<0.01	2.0
Hexavelent Chromium(mg/L)	<0.05	0.1
Nickel(mg/L)	<0.02	3
Arsenic, mg/l	<0.005	0.2
Selenium (mg/L)	<0.005	0.05
Dissolved Phosphate(mg/L)	<4.0	5
Phenolics (mg/L)	<0.001	1

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Effluent Quality (all Parameter): Hingula Area

Project (OCP / UG)	Balaram	MoEF-Sch-VI Standards
NAME OF THE STATION	Gandhisagar Mine Sump Water	
Date of Sampling	30-Aug-25	
Odour	Unobjectionable	–
Colour(Hazen)	3	–
Temperature(oC)	30.1	Shall not exceed 5 ^{oC} above the receiving temperature
pH	7.90	5.5-9.0
Total Hardness (asCaCO3),mg/L	596.02	–
Total Dissolved Solids, mg/L	747	–
Nitrate Nitrogen(mg/L)(As N)	<0.11	10
Ammonical Nitrogen , mg/l (As N)	0.67	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.52	100
Sulphide (mg/L)	<0.1	2
BOD [3 days at 27°C] (mg/L)	2.9	30
Fluoride(mg/L)	0.35	2
Copper(mg/L)	<0.03	3
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Zinc(mg/L)	<0.04	5
Lead, mg/l	<0.005	0.1
Cadmium, mg/l	<0.001	2.0
Total Chromium(mg/L)	<0.01	2.0
Hexavelent Chromium(mg/L)	<0.05	0.1
Nickel(mg/L)	<0.02	3
Arsenic, mg/l	<0.005	0.2
Selenium (mg/L)	<0.005	0.05
Dissolved Phosphate(mg/L)	<4.0	5
Phenolics (mg/L)	<0.001	1

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	13-Sep-2025	13-Sep-2025	13-Sep-2025	Acceptable	Permissible
Colour(Hazen)	3	3	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	3	3	1	5
pH	6.77	7.86	7.45	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	117.65	252.12	369.77	200	600
Chloride(mg/L)	31.37	40.80	40.80	250	1000
Sulphate(mg/L)	95.84	14.87	96.24	200	400
Nitrate(mg/L)	<0.5	<0.5	0.68	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	203.94	188.25	376.51	200	600
Calcium(mg/L)	69.16	36.15	105.32	75	200
Fluoride(mg/L)	0.64	0.60	0.68	1	1.5
Total Dissolve Solid(mg/L)	316	330	580	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.08	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.14	1.0	No relaxation
Zinc(mg/L)	<0.04	0.1	1.46	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Time Office Water	Gopalprasad Village Bore Well Water	Kumunda Village Bore Well Water		
Date of Sampling	13-Sep-2025	13-Sep-2025	13-Sep-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	11.64	15.86	14.68	–	–
Potassium(mg/L)	2.68	7.46	6.74	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	13-Sep-2025	13-Sep-2025	13-Sep-2025	Acceptable	Permissible
Colour (Hazen)	2	4	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity (NTU)	3	2	3	1	5
pH	6.71	7.69	7.11	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	100.84	79.83	264.72	200	600
Chloride(mg/L)	19.43	21.37	64.11	250	1000
Sulphate(mg/L)	62.28	124.28	35.42	200	400
Nitrate(mg/L)	18.80	<0.5	<0.5	45	No relaxation
Total Hardness (Ca CO3) (mg/L)	149.03	219.63	184.33	200	600
Calcium(mg/L)	40.87	58.16	45.58	75	200
Fluoride(mg/L)	0.52	0.76	0.74	1	1.5
Total Dissolve Solid(mg/L)	270	318	406	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	1.0	No relaxation
Zinc(mg/L)	0.05	<0.04	1.67	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	2.4

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Drinking Water Quality Data
Hingula Area

Project / OCP	Balaram OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Danara Village Borewell Water	Balaram Colony	Nakeipasi Village Bore Well Water		
Date of Sampling	13-Sep-2025	13-Sep-2025	13-Sep-2025	Acceptable	Permissible
Selenium(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Sodium(mg/L)	14.76	9.84	5.26	–	–
Potassium(mg/L)	8.28	2.88	1.88	–	–
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.001	0.002
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	0.2	1.0
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	–	–

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Surface Water Quality Data
Hingula Area

Project/OCP	Hingula				IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Singadhajhor stream near Kumunda Village	Singadhajhor stream near Baghabaspur Village	Sinia Jhor near meeting Singhada Jhor	Pond water of Kankarei village	
Date of sampling	30-Aug-25	30-Aug-25	30-Aug-25	30-Aug-25	
pH	8.03	7.97	7.34	7.03	6.5-8.5
Color (Hazen unit)	2	2	1	1	300
Dissolved Oxygen(mg/L)	6.5	6.7	6.6	6.4	4
BOD (3 days 27°c(mg/L)	2.2	2.3	2.2	2.3	3
Chlorides(mg/L)	23.48	23.48	15.65	15.44	600
Sulphate(mg/L)	43.68	39.08	26.58	30.66	400
Nitrate(mg/L)	1.20	1.16	1.76	0.76	50
Fluoride(mg/L)	<0.30	<0.30	0.35	0.63	1.5
Total Hardness(mg/L)	187.00	194.96	143.23	51.72	-
Total dissolved solids (mg/L)	290	287	208	166	1500
TSS(mg/L)	39	28	27	42	-
Copper(mg/L)	0.03	<0.03	<0.03	<0.03	1.5
Iron(mg/L)	<0.1	0.13	<0.1	0.19	50
Zinc(mg/L)	0.04	<0.04	<0.04	<0.04	15
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.1
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.2
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Hexavalent Chromium (as Cr^{6}) (mg/L)	<0.05	<0.05	<0.05	<0.05	0.05
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.005
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0	0.1
MPN (Index/100 ml)	220	210	350	150	_

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Surface Water Quality Data
Hingula Area

Project/OCP	Balram			IS:2296-1982 Tolerance for inland Surface water (Class C)
NAME OF STATIONS	Upstream of Bangaru Jhor	Downstream Bangaru Jhor near Nakeipasi village	Pond water of Ambapal village	
Date of sampling	30-Aug-25	30-Aug-25	30-Aug-25	
pH	7.27	7.71	7.17	6.5-8.5
Color (Hazen unit)	3	3	2	300
Dissolved Oxygen(mg/L)	6.3	6.0	6.5	4
BOD (3 days 27°c(mg/L)	2.1	2.3	2.2	3
Chlorides(mg/L)	15.65	29.35	37.18	600
Sulphate(mg/L)	27.89	60.26	31.45	400
Nitrate(mg/L)	1.32	2.76	0.88	50
Fluoride(mg/L)	<0.30	0.46	<0.30	1.5
Total Hardness(mg/L)	358.09	385.94	83.55	-
Total dissolved solids (mg/L)	365	425	199	1500
TSS(mg/L)	39	46	35	-
Copper(mg/L)	<0.03	<0.03	<0.03	1.5
Iron(mg/L)	0.13	0.30	0.14	50
Zinc(mg/L)	<0.04	0.19	<0.04	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.1
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.01
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.2
Selenium(mg/L)	<0.005	<0.005	<0.005	0.05
Hexavalent Chromium(as Cr^{6})(mg/L)	<0.05	<0.05	<0.05	0.05
Phenolics(mg/L)	<0.001	<0.001	<0.001	0.005
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	0.1
MPN (Index/100 ml)	210	220	110	_

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area:Hingula

Project	Hingula OCP				
Monitoring Station	Time Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
29-Mar-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	Hingula OCP				
Monitoring Station	South West Side of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
29-Mar-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	Balram OCP				
Monitoring Station	Near Project Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
29-Mar-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Project	Balram OCP				
Monitoring Station	Pump House near Outsourcing Working Patch & Coal Transport Road				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
29-Mar-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	**6.0(Annual)**	**20(Annual)**	-	-	-

Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

ANNEXURE III

Corporate Environment Policy 2023



Mahanadi Coalfields Limited

(A Miniratna Subsidiary company of Coal India Limited)
Jagriti Vihar, Burla, Sambalpur-768020, Odisha
CIN No:U10102OR1992GOI003038

Back Ground:

Mahanadi Coalfields Limited subscribes to the view of Sustainable Development. Unless the environment can sustain all the developmental activities, any pursuit of development in isolation can cause irreparable damage to the ecosystem and associated environmental attributes. Keeping this view in mind, Coal India Limited attaches top priority towards sustainable development and approved its 'Corporate Environmental Policy' in December 1995, which was subsequently revised in 2012 and 2018. The present policy is the revision of the Corporate Environment Policy 2018 and is complimentary to the National Environmental Policy, 2006.

This modification in the present policy is the outcome of the experience gained since 2018 keeping in view the modifications / amendments made time to time in environmental policies and additional stipulations notified by MoEF&CC (Ministry of Environment, Forest & Climate Change) and other organizations concerning mine closure, reclamation of degraded land, environmental clearance etc. and also with the objective of revisiting the corporate policy. Government of India is signatory to few international conventions/agreements relevant to MCL amongst others and activities associated with such conventions/agreements are embodied in the present policy

This Policy has a vision of Green Mining and mission of 100% compliance of environmental statutes applicable to coal mining industry.

Policy Statement:

Mahanadi Coalfields Limited (MCL) is committed to promote low carbon, sustainable and socially inclusive coal mining by protecting the environment through integrated project planning & design, prevention/mitigation of pollution, conservation of natural resources, restoration of ecology & biodiversity, recycling/ proper disposal of wastes, addressing climate change and inclusive growth. It also aims to bringing awareness amongst its stakeholders for continual improvement in environmental performances following good environmental practices.

Objectives:

MCL shall endeavor to-

1. *Plan & design projects with due consideration to environmental and social concerns for Sustainable Development and reduction in emission intensity of its operations.*

2. *Conduct mining and associated operation in an environmentally responsible manner to comply with applicable laws and other requirements related to environmental aspects.*
3. *Prevent pollution in surrounding habitation by continuous monitoring and adopting suitable measures for environment protection.*
4. *Ensure effective implementation of Environment Management Plans (EMPs) in all our mines / projects to mitigate pollution, conservation of natural resources and restoration of ecology& biodiversity.*
5. *Ensure compliance of all statutory conditions prescribed by regulatory agencies.*
6. *Ensure waste management in each unit on the principle of REDUCE, REUSE, RECYCLE and SAFE DISPOSAL.*
7. *Put special thrusts on efficient energy utilization / renewable energy and other measures to reduce carbon foot-print.*
8. *Strive for continual improvement in our environmental performances by setting targets, measuring progress and taking corrective action.*
9. *Take measures to gainful repurposing of land and render productive post mining land use for ensuring environmentally sustainable and socially acceptable closure of mine.*
10. *Ensure implementation of activities applicable to MCL arising out of International Conventions.*
11. *Create environmental awareness and ensure environmental education among the employees, local communities and other stakeholders through pro-active communication and training.*
12. *Promote R&D projects/innovations addressing various environmental concerns like minimization of carbon footprints of MCL and environmental issues in mining & surrounding areas.*
13. *Ensure transparency in Environmental reporting / disclosure to stakeholders.*

Review of Environmental Policy:

In view of the present fast changing social, economic and environmental scenario, this policy shall be reviewed every 5 years to incorporate the changes in the legal, technical, environmental, economic and social inputs prevailing at that time. Whenever, there is change in National Environmental Policy or other National / State relevant policies, Acts etc, this Corporate Environmental Policy would be reviewed and suitably revised.

UK min resigns over Starmer's foreign aid cut

London: The British minister responsible for international development quit Friday in the wake of Prime Minister Keir Starmer's decision earlier this week to ramp up defense spending by slashing the foreign aid budget. In a letter to Starmer, Anneliese Dodds resigned as international development minister and minister for women, saying there were 'no easy paths' to increasing defence spending but that she disagreed with the decision to cut overseas aid, which she warned would only lead to China and Russia filling the vacuum.

GOVERNMENT OF ODISHA

OFFICE OF THE SUPERINTENDING ENGINEER,
PUBLIC HEALTH DIVISION, BHAWANIPATNA Parmanandpur,
Railway Station Road, Bhawanipatna, Dist: Kalahandi, PIN -766002
e-mail: eephbhpt@gmail.com

NATIONAL COMPETITIVE BIDDING THROUGH e-Procurement
Identification No.SEPH-BHPT- 54 of 2024-25 Dt. 24.02.2025

C-1744 **E-PROCUREMENT NOTICE**

01.	Name of the Work	:	1 no Work.
02.	Type of Bid.	:	Double Bid System
03.	Estimated Cost	:	Rs. 65.23 Lakhs
04.	Period of Completion	:	06 Calendar Months
05.	Date & Time of availability of bid document in the portal	:	From 11.00 AM of dt.03.03.2025 to 5.00 PM of 18.03.2025
06.	Last date / time of receipt of bids in the portal	:	5.00 PM of 18.03.2025
07.	Date & Time of opening of technical bids	:	At 11.30 AM of 19.03.2025
08.	Name and Address of the Officer Inviting Bid	:	Superintending Engineer, P.H. Division, Bhawanipatna , Railway Station Road, At/Po- Parmanandpur, 766002 Dist- Kalahandi.

Further details can be seen from the web site http://tenders.ori.nic.in or www.tendersorissa.gov.in

Sd/- Superintending Engineer,
P.H. Division, Bhawanipatna

OIPR-13059/11/0023/2425

CLASSIFIEDS

PUBLIC NOTICE

AFFIDAVIT

I, Pramila Bankira legally wedded spouse of PPO No- S/053785/2012 and Army No-14602016X Ex.HAV Dhaneswar Bankira residing at Village - Akhapalan, Po- Hatigoda, Ps- Thakurmunda, Dist- Mayurbhanj, Pin- 757038, State- Odisha have changed my name from Pramila to Pramila Bankira in my husband's Army, EME Records and for all purposes. Both Pramila and Pramila Bankira is one and the same person vide affidavit No-22661/2024 dtd. 27-dec-2024 before public Notary Angul.

AFFIDAVIT

By virtue of an Affidavit sworn before Executive Magistrate, Bhubaneswar, I Bharati Sahoo, W/o- Ranjan Kumar Sahoo, residing at Plot No-3311/6527/Chakeisiani, Rasulgarh, Bhubaneswar-10, Dist- Khorda, Odisha declare that, in my Husbands Service Record/PPO my DOB wrongly mentioned as 14/03/1963. But my actual DOB is **10/03/1964** as per PAN Card. I have changed my DOB as **10/03/1964** instead of 14/03/1963 in Air Force Record & Pension related documents. Henceforth my original **DOB is10/03/1964** for future reference.

Sd/-Bharati Sahoo

AFFIDAVIT

I, Geetanjali Bankira is legally daughter of PPO No- S/053785/2012 and Army No-14602016X Ex.HAV Dhaneswar Bankira residing at Village- Akhapalan, Po- Hatigoda, Ps- Thakurmunda, Dist- Mayurbhanj, Pin- 757038, State- Odisha have changed my name from Geethanjali to Geetanjali Bankira in my father's Army, EME Records and for all purposes. Both Geethanjali and Geetanjali Bankira is one and the same person vide affidavit no- 22662/2024 dtd. 27-dec-2024 before public Notary Angul.

AFFIDAVIT

I, Pushpanjali Bankira is legally daughter of PPO No- S/053785/2012 and Army No-14602016X Ex.HAV Dhaneswar Bankira residing at Village-Akhapalan, Po-Hatigoda, Ps- Thakurmunda, Dist-Mayurbhanj, Pin- 757038, State- Odisha have changed my name from Puspanjali to Pushpanjali Bankira in my father's Army, EME Records and for all purposes. Both Puspanjali and Pushpanjali Bankira is one and the same person vide affidavit no-22663/2024 dtd. 27-dec-2024 before public Notary Angul.

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The New Indian Express

MCL MAHANADI COALFIELDS LIMITED

(A Subsidiary of Coal India Limited)
JAGRUTI VIHAR, BURLA-768020, DIST-SAMBALPUR, ODISHA
Ph.(EPABX): 0663-2542481 to 469, Website:www.mahanadicoal.in

NOTICE

It is for information of all concerned that, Balram OC Expansion Project of Mahanadi Coalfields Limited, Village: Danara, District: Angul (Odisha) has been accorded with Environmental Clearance for 15 MTPA capacity vide letter no. J-11015/09/2013-IA-II(M) dated: 24.02.2025, by the Ministry of Environment, Forest and Climate Change and New Delhi. A copy of the clearance letter is available with the Odisha State Pollution Control Board and can also be seen at the Website of Ministry of Environment Forest and Climate Change, at MCL Website and Parivesh Portal (parivesh.nic.in).

Project Officer
Balram OCP

R-5243

UJVN LIMITED

H.O.: "UJJWAL", Maharani Bagh, G.M.S. Road, Dehradun-248006
Telephone: 0135-2763808, Fax: 0135-2763568
CIN No.U40101UR2001SGC025866, Website:www.ujvnl.com

Letter No: 153 Date: 28/02/2025

Addendum/Date Extension Notice -2

In reference to e-bid Notice No 40/EE(Civil)/MB-II/ Chinyalisaur/2024-25, the addendum notice in respect of response to clarification sought by bidders has uploaded an e-portal **http://uktenders.gov.in**, other term, conditions shall remain same and date extended as follows:-

Last Date of submission of Tender on website: 05/03/2025 Upto17:00 Hrs.
Last Date of Submission of Documents in Hard Copy: 06/03/2025 Upto15:00 Hrs.
Date of Opening of Tender : 06/03/2025 at 15:30 Hrs.
For fuller & further details, kindly visit "e-procurement, portal **http://uktenders.gov.in"**

Executive Engineer (Civil)
MB-II Chinyalisaur,Uttarkashi

"AVOID WASTEFUL USE OF ELECTRICITY"

The Odisha Agro Industries Corporation Ltd.,

(A Govt. of Odisha undertaking)
Regd. H.O.: 95-Satyanagar, Bhubaneswar-751007,
Tel. (0674) 2570687, Email: oaicho@orissaagro.com

CAD-2711

E-PROCUREMENT TENDER

E-procurement tender in conformity with technical specification, term & conditions in tender documents are invited from registered Civil Contractors/firms (Class – Super) for the work "Construction of new Head office building of OAIC" at H.O. Campus, Satyanagar, Bhubaneswar amounting to **Rs.68,21,96,454/- (Rupees Sixty-Eight Crore Twenty-One Lakh Ninety-Six Thousand Four Hundred Fifty-Four only)**. For more details, please visit website **http://tendersodisha.gov.in**. Bid documents are available in above website from **27.02.2025** at **10.00 A.M** to **05.00 PM of 28.03.2025**. The bid shall be opened in the office of the undersigned on **29.03.2025 at 11.30 AM**. The bidder must possess matching class compatible Digital Signature Certificate (DSC) to apply for the tender. The undersigned reserves the right to accept/reject any/all application (s) without assigning any reasons thereof.

DIPR- 01047/11/0042/2425 Sd/-

ODISHA MINING CORPORATION LIMITED

OMC House, Bhubaneswar-751001,Odisha
CIN: U13100OR1956SGC000313, www.omcltd.in

Short Notice of National e-auc
(dt. 04.03.2025, 15th e-

CAD-2709: The Odisha Mining Corporation Ltd. i having basis 40% Al_2O_3 produced at Kodingamal Koraput Districts of Odisha State through Nationa **whatever there is and no complaint basis"** wi Ltd. The e-auction shall be held on **dt. 04.03.202**

For details, please visit the website of MSTC i.e w

OIPR-30005/11/0158/2425 Sd

SMA

Bids are invited for t

Sl. No.	Item C
1	Extension of and installati 125 nos. UPS Networking fo Thiruvananthap

(Sd/-

RGG
RADHA GO
GRANDSON
22 CT GO
₹ 79,5
Infront of Juma M
Cuttack - 2, Phone

S. E. RAILWA

Tender Notice
GSU/2025/02 For
President of India,
Manager, Gati Sha
Railway, Kharagp
e-Tender for the foll
15.00 hrs. on the dat
items and will be op
Sl. No.; Tender N
work; Tender Value
(1); E-KGP-GS-03-
Bhadrak : Provision o
KM 116.40 to KM 26
speed 130 kmph
CPM/GSU/KGP in K
₹142,14,84,041.11;
E-KGP-GS-04-2025
Balichak-Rakhamin
safety fencing from KI
route A with speed 1
under CPM/GUS/K
Division; ₹177,
₹90,10,300.00 Tend
₹0.00 (for Sl. 1 & 2)
16/04/2025 (for Sl. 1
period of the work : 1
2). Bidding Start Dat
and up to 15:00 h
Interested tenderers
www.ireps.gov.in
descriptions/specifica
and submit their bids
manual tenders for t
accepted. N.B.: Pros
regularly visit ww
participate in all tende

ସମ୍ବାଦ

MCL

ମହାନଦୀ କୋଲ୍‌ଫିଲଡ୍ସ ଲିମିଟେଡ୍

(କୋଲ୍ ଇଣ୍ଡିଆ ଲିମିଟେଡ୍‌ର ଏକ ସହାୟକ କମ୍ପାନୀ)

ଜାଗୃତି ବିହାର, ବୁର୍ଲା- ୭୬୮୦୨୦, ଜିଲ୍ଲା- ସମ୍ବଲପୁର, ଓଡ଼ିଶା

ଫୋନ୍ ନଂ- (ଇପିଏବିଏକ୍ସ)- ୦୬୬୩-୨୫୪୨୪୬୧ ବୁ ୪୬୯,

ୱେବସାଇଟ୍ : www.mahanadicoal.in

ବିଜ୍ଞପ୍ତି

ସମସ୍ତଙ୍କ ଅବଗତି ନିମନ୍ତେ ଏହା ଦ୍ୱାରା ଜଣାଇ ଦିଆଯାଉଛି ଯେ ମହାନଦୀ କୋଲ୍ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍, ଗ୍ରାମ: ଡଅଁରା, ଜିଲ୍ଲା: ଅନୁଗୁଳ(ଓଡ଼ିଶା) ଅନ୍ତର୍ଗତ ବଳରାମ ଖୋଲା ମୁହଁ ୧୫ ଏମଟିପିଏ ସଂପ୍ରସାରଣ ପ୍ରକଳ୍ପ ପାଇଁ ୨୪.୦୨.୨୦୨୫ ତାରିଖରେ ଜାରି ହୋଇଥିବା ଚିଠି ନମ୍ବର ଜେ-୧୧୦୧୫/୦୯/୨୦୧୩-ଆଇଏ-ଆଇଆଇ(ଏମ) ଜରିଆରେ, ପରିବେଶ ସୁରକ୍ଷା, ଜଙ୍ଗଲ ଓ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରଣାଳୟ, ନୂଆଦିଲ୍ଲୀ ପକ୍ଷରୁ ପରିବେଶ ମଞ୍ଜୁରୀ ପ୍ରାପ୍ତ ହୋଇ ଅଛି। ମଞ୍ଜୁରୀ ପ୍ରାପ୍ତ ଚିଠିର ଏକ ନକଲ ଓଡ଼ିଶା ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ ସହ ପରିବେଶ ସୁରକ୍ଷା, ଜଙ୍ଗଲ ଓ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ମନ୍ତ୍ରଣାଳୟ, ନୂଆଦିଲ୍ଲୀ, ଏମସିଏଲ୍ ୱେବ୍‌ସାଇଟ୍ ଏବଂ ପରିବେଶ ପୋର୍ଟାଲ୍ **(parivesh.nic.in)**ରେ ମଧ୍ୟ ଉପଲବ୍ଧ ହୋଇପାରିବ।

ପ୍ରକଳ୍ପ ଅଧିକାରୀ

R-5243 ବଳରାମ ଓସିପି

ORGANISATIONAL STRUCTURE OF ENVIRONMENTAL MANAGEMENT

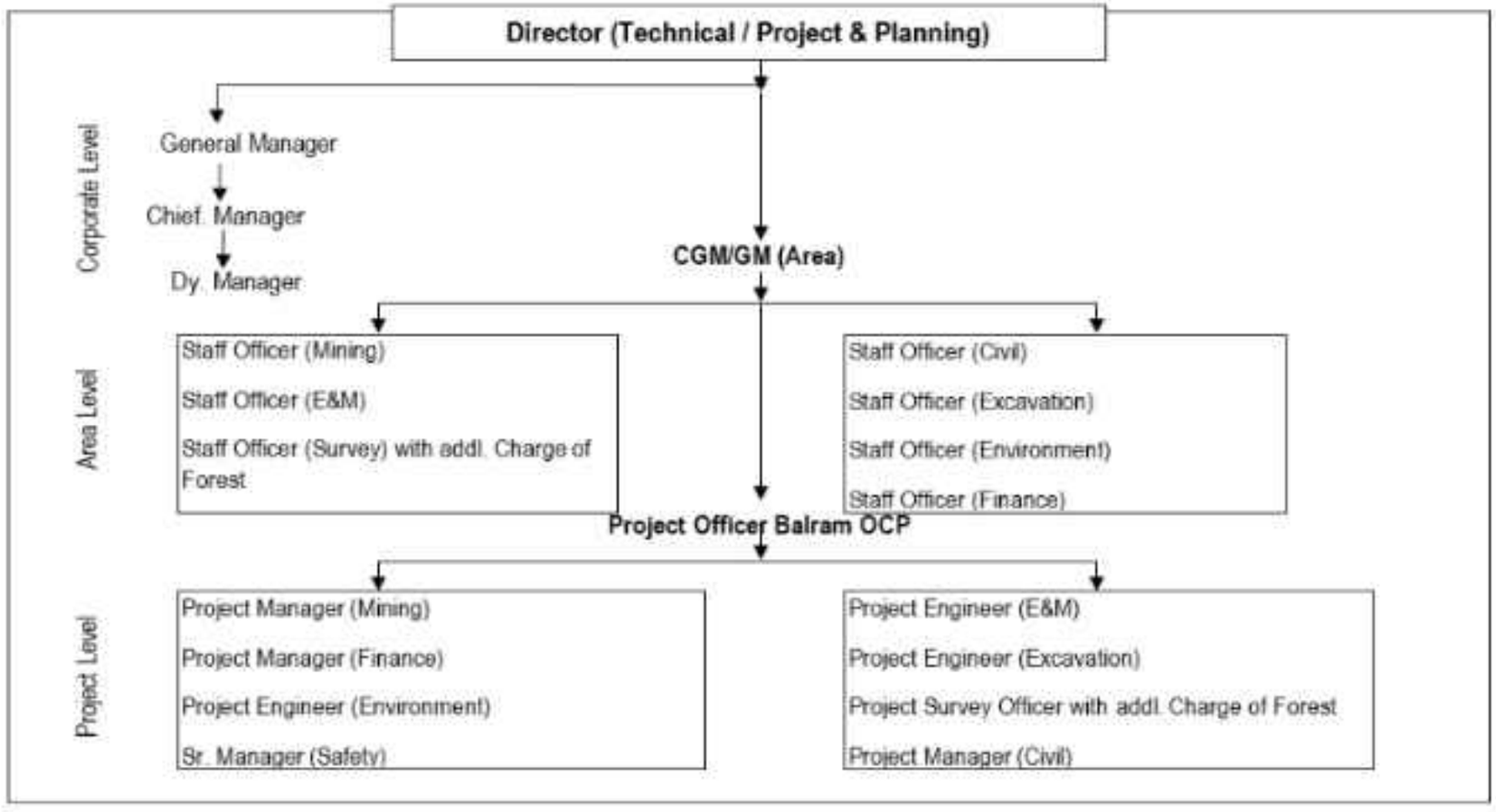
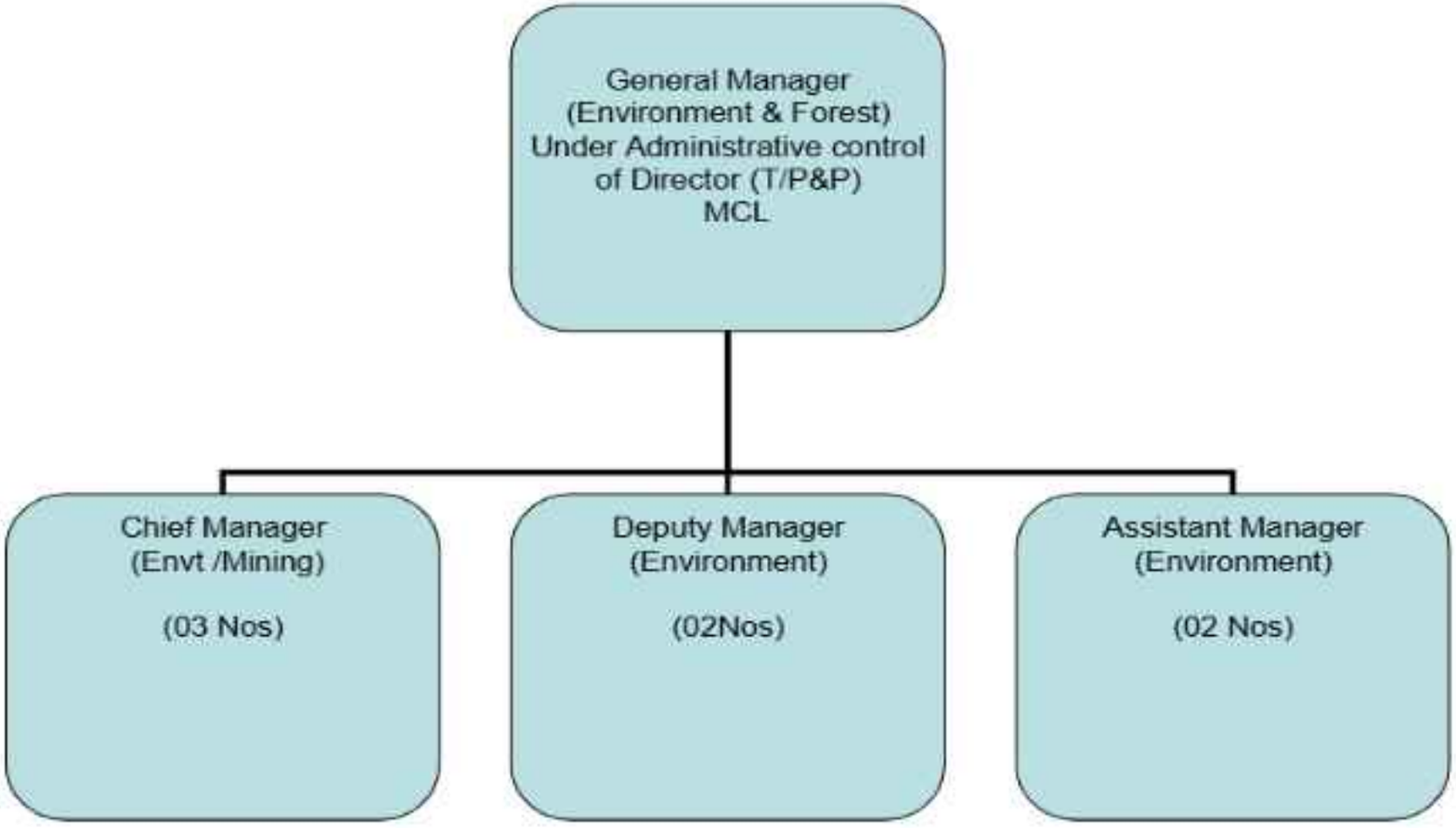


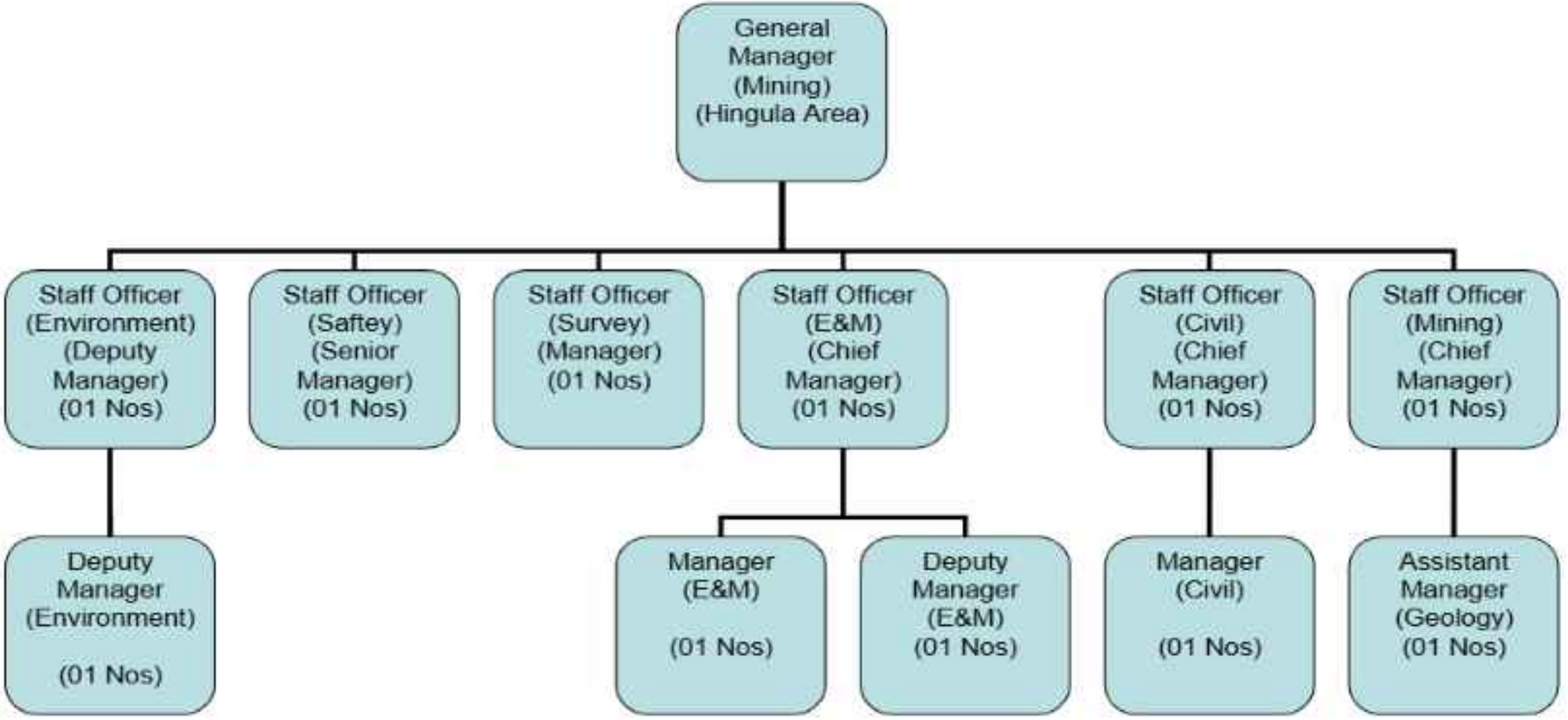
Figure no: 6.1- Organisational structure of environmental management

6.3 IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT PLAN (EMP) IN HINGULA OCP

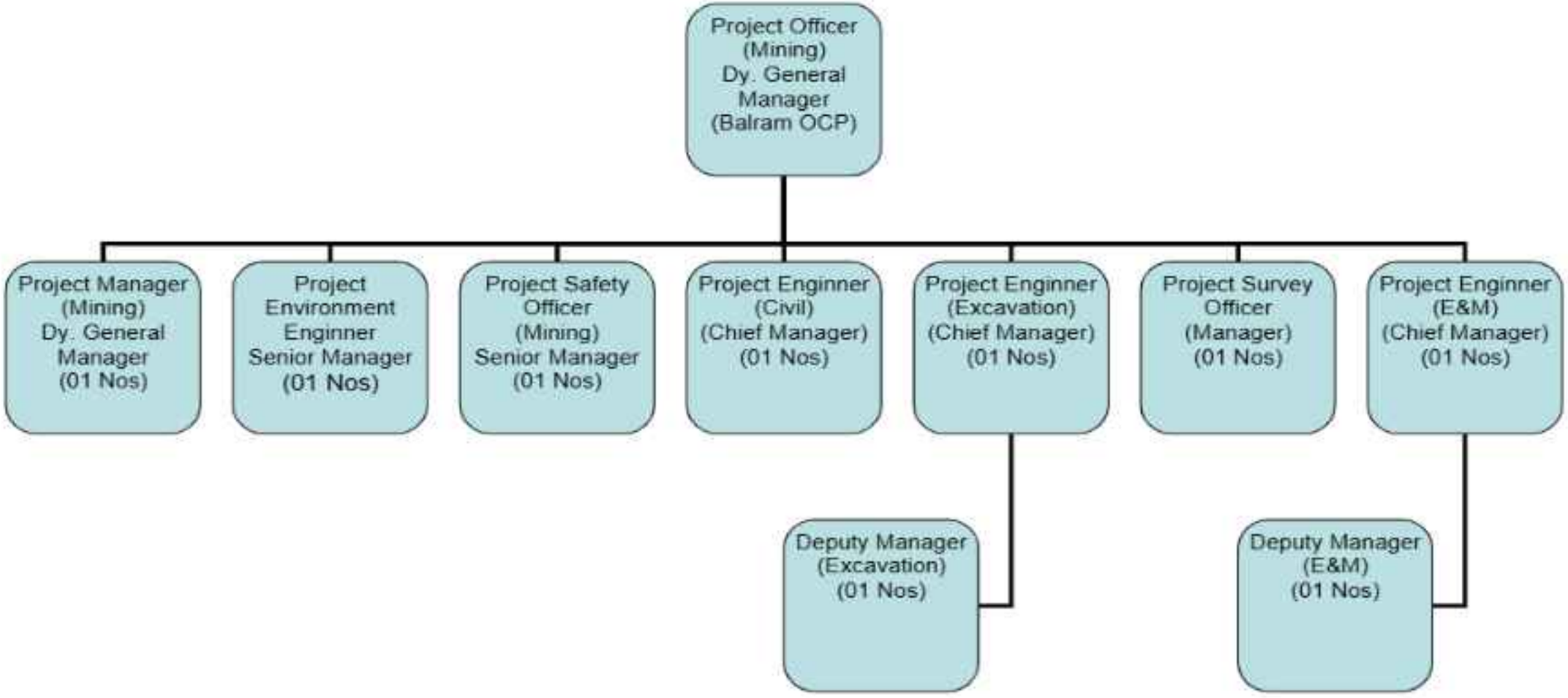
❖ **CORPORATE LEVEL**



❖ **AREA LEVEL**


General Manager (Mining) (Hingula Area)
Staff Officer (Environment) (Deputy Manager) (01 Nos)
Staff Officer (Saftey) (Senior Manager) (01 Nos)
Staff Officer (Survey) (Manager) (01 Nos)
Staff Officer (E&M) (Chief Manager) (01 Nos)
Staff Officer (Civil) (Chief Manager) (01 Nos)
Staff Officer (Mining) (Chief Manager) (01 Nos)
Deputy Manager (Environment) (01 Nos)
Manager (E&M) (01 Nos)
Deputy Manager (E&M) (01 Nos)
Manager (Civil) (01 Nos)
Assistant Manager (Geology) (01 Nos)

❖ **PROJECT LEVEL**



ENVIRONMENTAL STATEMENT

(Form – V)

Under Rule – 14 of Environment Protection Rules, 1986
and Amendment, 1993
of

Balaram Opencast Mine

For the year 2024-25

MCL

Mahanadi Coalfields Ltd.

Post: Jagruti Vihar, Burla,
Dist: Sambalpur, Orissa-768020

FORM-V
ENVIRONMENTAL STATEMENT
Environmental statement for the financial year ending 31st Mar, 2025
Part – A

I)	Name & Address of the owner/occupier of the Industry operation or process (Name of the Project Officer/ Sub-Area Manager & Office address to be given)	:	S. Venkatesan Project Officer (Balram OCP) P.O – Danara, Talcher Dist: Angul, Odisha Pin: 759148
ii)	Industry Category	:	Primary (Coal Mining Operation)
iii)	Production Capacity (Coal production During the year 2024-25)	:	8 MTPA (6.514 Million tonne)
iv)	Year of establishment	:	1991
v)	Date of the last Environmental Statement submitted.	:	30th September, 2024

Part – B
Water & Raw Material Consumption

Note: Average Water Consumption (Cu-m/ day) for the whole year is given. Raw material consumption is given per unit of coal produced.

(I) Water Consumption (Cu-m/ day):

Ser No.	Industrial/ Mining	Consumption in Cu-m/ day
1. a	Haul Road Dust Suppression	1336
b	Dust Suppression at CHP	0
c	Dust Suppression at Siding & Coal Stocks	2520
d	Fire Fighting	28
e	Workshop	50
f	Others	22
2.	Domestic	1259
3.	**Total in kℓ/ day**	**5215**

Name of the Product	Water Consumption per unit of product (ℓ/ t)	
	2023-24	2024-25
Coal	229.94	292.18

(II) Raw Material Consumption (per tonne of coal):

Name of Raw Material	Consumption of Raw Material (per tonne of Coal produced)	
	2023-24	2024-25
H.S. Diesel (ℓ/ t)	1.36	1.41
Petrol (ℓ/ t)	Nil	Nil
Lubricants (ℓ/ t)	0.016	0.019
Electricity (Units/ t)	1.897	1.196
Explosives (kg/ t)	0.328	0.431

Part – C
Pollution Discharged to Environment/ Unit of Output

(Parameter as specified in the 'Consent' issued)

Pollutants	Quantity of pollutants discharged (mass/ day)	Concentrations of pollutants in discharges (mass/ volume)			Percentage variation from prescribed standards with reasons
Water (annual average)					
		Mine Effluent	**OGT Outlet**	**STP Outlet**	
TSS (mg/ℓ)	Not possible to quantify	20.00	42.00	39.00	Within Prescribed Limit
BOD mg/ℓ)		-	-	<2.00	
COD (mg/ℓ)		16.00	28.00	-	
pH		8.09	8.12	7.10	
O & G (mg/ℓ)		<4.00	<4.00	-	
Air (Ambient air quality of one station – annual average): Near Project Office					
SPM ($\mu g/m^3$)	Not possible to quantify	253.00			Within Prescribed Limit
PM_{10} ($\mu g/m^3$)		148.00			
$PM_{2.5}$ ($\mu g/m^3$)		63.00			
SO_2 ($\mu g/m^3$)		11.84			
NO_x ($\mu g/m^3$)		32.11			

Part – D
Hazardous Wastes

As specified under Hazardous Wastes (Management & Handling) Rules, 1989.

Hazardous Waste	Total Quantity (kg)	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From process :		
i. Burnt Oil in Workshops	44055 Ltr	30730 Ltr
ii. Oil soaked filters	210 Nos	181 Nos
(b)From pollution control facilities:		
i. Oil/ Oil Imulsion recovery from Oil & Grease Trap	1.31 KL (Oil)	0.91 KL (Oil)
ii. Oily sludge	51 tonne (Oily Sludge)	21 tonne (Oily Sludge)
iii. Chemical Waste(If any)	Nil	Nil

Part – E
Solid Wastes (other than hazardous)

Particulars	Total Quantity	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From process (Top soil and Over burden)	17.00 Mm^3	9.04 Mm^3
(b) From pollution control facilities (STP & Sed-Pond Sludge)	29.34 m^3	27.25 m^3
(c) 1- Quantity recycled or re-utilized (OB back-filled)	17.00 Mm^3	9.04 Mm^3
2- Solid	---	---
3- Disposed	---	---

Part – F

Please specify the characteristics (in terms of concentration & quantum) of hazardous as well as solid waste and indicate the disposal practice adopted for both these categories of wastes.

(I) Hazardous Wastes:

Name of Hazardous Wastes	Quantity generated in the year 2024-25	Disposal Practices
Burnt Oil, etc. (ℓ) (from W/Shop)	30730 Ltr	By Auction to authorized parties
Oil soaked filters(kg) (from W/Shop)	181 Nos	Disposed off in impervious lined pit
Oil & Grease (kg) (from ETP/ OGT)	910 L (Oil)	By Auction to authorized parties
Oily Sludge (te.) (from ETP/ OGT)	21 tonne (Oily Sludge)	Disposed off in impervious lined pit
Oil imulsion	Nil	---
Chemical Waste if any (kg)	Nil	---
Battery (nos.)	55 Nos	By Auction to authorized parties

Note: A detailed note on disposal practices of the above should be given separately.

(II) Solid Wastes:

Solid Waste	Quantity generated in the year 2024-25	Disposal Practices
Top Soil (m^3)	24000 m^3	Spread over OB dump for reclamation
OB (m^3)	9.016 Mm^3	Used to fill the quarry voids
STP & Sed-Pond Sludge	27.25 m^3	Used as manure

Land Reclamation & OB disposal – progressive till March, 2025:

	Area (ha.)	OB Volume/ Nos. of Plants
1) External OB dump	50.82	11.28 Mm3
2) Excavated land	530.31	230.40 Mm3
3) Land affected (1+2)	581.13	-------
4) Backfilled (out of 2)	348.65	219.12 Mm3
5) Land physically reclaimed (out of 3)	175.71	-------
6) Land biologically reclaimed (out of 3) *includes 26.52 Ha external OB dump biologically reclaimed area	134.37	3,35,925 nos.

Part – G

Impact of pollution control measures on conservation of natural resources and consequently on cost of production.

In order to carry out mining in an eco-friendly manner, a detailed Environmental Management Plan (EMP) was prepared by Regional Institute-VII of CMPDIL. The main pollution control measures suggested in EMP along with the measures implemented so far have been summarized in the Table-1.1 to 1.3.

Table – 1.1

Air Pollution Control Measures

Sl. No.	EMP Provisions	Whether provided or not	Remarks
1	Water sprinkling and grading of all roads to minimize air-borne dust from vehicles.	Provided	
2	Biological reclamation of land.	Provided	
3	Green belt around mine & infrastructures.	Provided	
4	Drills fitted with dust control devices.	Provided	
5	Dust suppression/ dust extraction system to be provided in CHP.	Provided	
6	Improved maintenance of plant & machinery.	Provided	By scheduled maintenance
7	Mechanized coal transportation system.	Provided	

Table – 1.2

Water Pollution Control Measures

Sl. No.	EMP Provisions/ Additional precautions	Whether provided or not	Remarks
1	Mine water is to be collected in central sump on dip side of pit. This will act as sedimentation lagoon.	Provided	
2	Run-off around reclamation area will be controlled by providing catch drains and sedimentation lagoon combination.	Provided	
3	Surface run-off from external dump would be collected through a series of contour drains which would be connected to a water retention pond. The clear water from this pond will be re-utilised	Provided	
4	Domestic waste water will be treated in screens, oxidation pond/ aerated lagoon. Sanitary waste to be disposed off into septic tank & soak-pit.	Provided	STP provided for Balram Colony.
5	Workshop effluents will be treated in oil & grease trap & sedimentation tank.	Provided	
6	Zero discharge from mine shall be maintained.	Maintained	
7	Piezometers shall be installed for measurement of under-ground water depth and its quality	Provided	**MTP-10** Inside the premises of Danara High School. **MTP-12** In Betianalli village, opposite to sindhu deori's house. **MTP-13** .Inside the premise of Ambapal Natarha high school. **MTP -17** . Inside the premises of market building (through gramin rojgar yojna, Kandhaberanl village

Table – 1.3
Land Reclamation

Sl. No.	EMP Provisions	Whether provided or not	Remarks
1	**Top soil Management:** Proper stripping, Storage, and Relocation of top soil.	Provided	
2	**Physical Reclamation of OB Dump:** Proper reshaping and regrading of top surface, Providing drainage arrangements and top soil spreading on external and internal dumps.	Provided	
3	**Biological Reclamation:** Plantation of suitable species of herbs, shrubs & indigenous trees over technically reclaimed dumps.	Provided	

IMPACT OF POLLUTION CONTROL MEASURES ON COST OF PRODUCTION

COST OF ENVIRONMENTAL MANAGEMENT DURING **2024-25** was Rs.10.77 per tonne of Coal.

Part – H

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

Head	Amount Rs. (approx)
ETP/STP Operation /Maintenance	25,00,000
Tree plantation	80,00,000
Environmental Monitoring	2,50,00,000
Catch/Garland drain	3,00,000
Mobile & fixed water sprinklers and other dust suppression measures	30,00,000
Road Repairing	40,00,000
Maintenance of Continuous Ambient Air Quality Monitoring Station	3,00,000
Total	**4,31,00,000**

Part – I

Any other particulars for improving the quality of the environment.

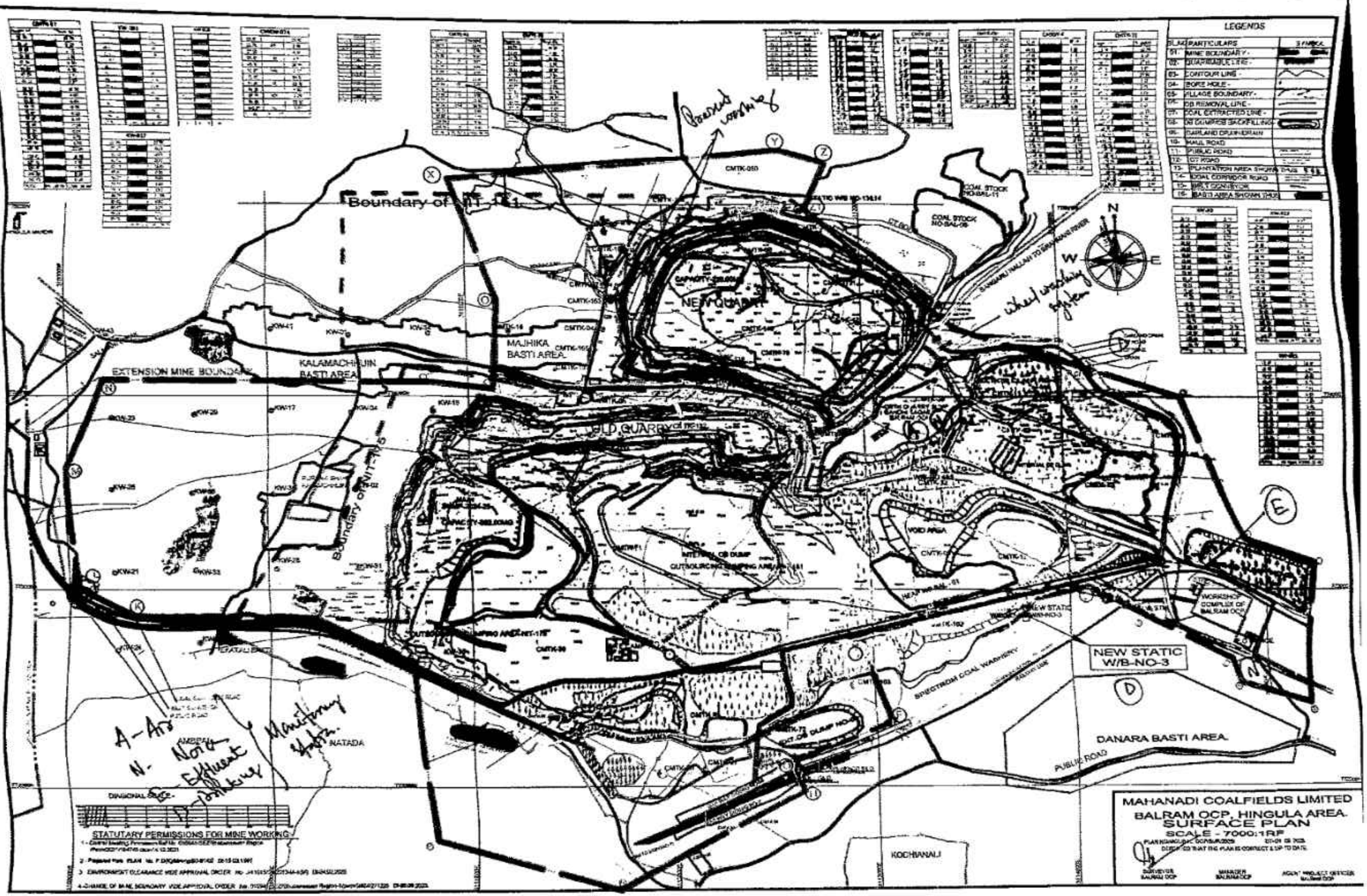
Note: Please attach a plan showing the relevant features like Present Working/ Quarry, External Dump, Back-filling, Plantation, Sedimentation Pond/ MDTP, Oil & Grease Trap/ ETP, Workshop, CHP, STP, etc. and Environmental Monitoring Stations.

22/9/25

Signature of the Project Officer.

(With Seal)

G.M.(Min)/Project Officer
Balram OCP, MCL


LEGENDS
PARTICULARS
MINE BOUNDARY
CONTOUR LINE
BORE HOLE
VILLAGE BOUNDARY
OB REMOVAL LINE
COAL EXTRACTED LINE
OB DUMPED BACKFILLED
RAILWAY LINE
HAUL ROAD
PUBLIC ROAD
CHP ROAD
PLANTATION AREA SHOWN THUS
COAL CORRIDOR ROAD
BELT CONVEYOR
BASTI AREA SHOWN THUS
Boundary of MT - 01
EXTENSION MINE BOUNDARY
KALAMACHHUIN BASTI AREA
MAJHIKA BASTI AREA
NEW QUARRY
OLD QUARRY of MT-02
NEW STATIC W/B-NO-3
DANARA BASTI AREA
PUBLIC ROAD
SPECTRON COAL WASHERY
COAL STOCK NO-BAL-01
COAL STOCK NO-BAL-02
WORKSHOP COMPLEX OF BALRAM OCP
VOID AREA
KOCHHANALI
NATADA
STATUTARY PERMISSIONS FOR MINE WORKING
MAHANADI COALFIELDS LIMITED
BALRAM OCP, HINGULA AREA
SURFACE PLAN
SCALE - 7000:1RF

ମହାନଦୀ କୋଲ୍‌ଫିଲଡ୍‌ସ୍ ଲିମିଟେଡ୍
महानदी कोलफील्डस लिमिटेड
Mahanadi Coalfields Limited
(A subsidiary of Coal India Limited)

OFFICE OF THE GENERAL MANAGER
HINGULA AREA
PO- NS NAGAR, BHARATPUR
DIST: - ANGUL (ODISHA), PIN- 759148
E-MAIL: -cgm-hina.mcl@coalindia.in

Ref/MCL/PO (BOCP)/Envt./2025-26/487

Date. 15.10.2025

To,
Director (HO),
Office of Coal Controller,
1, Council House Street Kolkata- 700001
Ministry of Coal,
Government of India.

Sub: Submission of Half Yearly Report for the period April 2025 to September 2025 w.r.t of Balram Open Cast Project, Hingula Area, Mahanadi Coalfields Limited

Dear Sir,

In connection with above said subject, please find attached herewith Half Yearly Report for the period April 2025 to September 2025 Balram OCP of Hingula Area, Mahanadi Coalfields Limited.

This is for your kind information.

Yours faithfully,

15/X/25
Project Officer (Balram OCP),
Hingula Area.

Copy for kind information:-

1. GM, Hingula Area
2. Staff Officer (Envt), Hingula Area
3. Survey Incharge(BOCP), Hingula Area
4. Envt Incharge (BOCP), Hingula Area

Annexure-I

HALF-YEARLY REPORT OF MINE CLOSURE ACTIVITIES

Monitoring of Mine Closure Activities based on different Milestones and timeframe as per approved Mine Closure Plan for the period April 2025 to September 2025.

a) Brief description of Mine: -

1. Name of Mine: - Balram OCP
2. Name of Company: - Mahanadi Coalfields Limited
3. Mine Type (OC/UG/Mixed): OC
4. GR (Mill Tonnes): 746.21 (as on 01.04.2018)
5. Mineable Reserve & PRC (MT): 721(as on 1.4.2018)
6. Lease Hold Area (Ha):2574 Ha
7. Total Surface Area (Ha): 2574 Ha
8. Life of Mine: 49 years as per mine plan
9. Balance Life: 49 Years as per mine plan

b) Milestones wise parameters for progressive mine closure activities against approved Mine Closure Plan are given as under: -

Sl. No.	Name of Mine Closure Activity Milestones	Status of Completion during the Current Year (2025-26) (Progressive/Final) 01.04.2025-30.09.2025		Reasons for any shortfall	Status of Completion during the Current Year (2025-26) (Progressive/Final) 01.10.2025-31.03.2026		Reasons for any shortfall	Progressive Total for the year 2025-26
		Target	Achievement		Target	Achievement		Achievement
1.	Coal Produced (in Million Te)	NA	1.84					1.84
2.	Void area (in Ha)	NA	4.09					4.09
3	Top soil removed (m^3)	NA	24500					24500
4.	Spreading of Topsoil (m^3)	NA	24500					24500
5.	Removal of OB (Mm^3)	NA	2.01					2.01
6.	Void backfilled (Mm^3)	NA	2.01					2.01
7.	Land reclaimed (in Ha)	NA						
8.	Type of Reclamation							
a.	Physical Reclamation	NA	0.00					0.00
b.	Biological Reclamation	NA	0.00					0.00
9.	**Plantation**							
a.	Plantation in safe zone	NA	0.00					0.00
b.	Plantation in OB dump area	NA	0.00					0.00

c.	Others (within the project area)	NA	Miyawaki plantation over 4.5 Ha (36000 No.s)					Miyawaki plantation over 4.5 Ha (36000 No.s)
10.	Air Quality Management (Descriptive report to be submitted)		Enclosed					Enclosed
11.	Water quality Management (Descriptive report to be submitted)		Enclosed					Enclosed
12.	Fencing of Mine Void Area		NA					
13.	Stowing for U Mines in m3		NA					
14.	Surface filling area, if any, for caving mines (m^3) (Descriptive report to be submitted)		NA					
15.	Other Mine Closure activities, If any		-					-

Note: The copy of EC Compliance Report must also be submitted.

Date: - 15/10/2025

15/X/25

Project Officer (Balram OCP),
Hingula Area