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Ref.No.: MCL/PO/HOCP/ENV/2025-26/17

Date - 30/11/2025

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 of Hingula OCP of Hingula Area, MCL.

Dear Sir,

Please find enclosed here with the half-yearly progressive report on environmental clearance condition for the period from April 2025 to September 2025 in respect of Hingula OCP of Hingula Area, MCL.

Thanking You.

Yours faithfully,

Project Officer,
Hingula OCP, MCL

Copy to:

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

SIX MONTHLY PROGRESS REPORT

ON

THE IMPLEMENTATION OF ENVIRONMENTAL CLEARANCE CONDITIONS

BY MoEF

For the time period April 2025 to September 2025

Name of the Project: - Hingula Open Cast Project.

No. & Date of MOEF clearance letter:-
J.11015 / 39/96-IA-II, Dated:-January 06, 1997.
J.11015 / 136/2007-IA-II (M), Dated:-October 31, 2007.
J-11015/240/2008-I.A.II (M), Dated :- October 28, 2015.

A. SPECIFIC CONDITION:

CN No.	DETAILS OF SPECIFIC CONDITIONS	STATUS OF IMPLEMENTATION OF THE CONDITION												
i.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Coal production has not exceeded the limit prescribed in the EC till date. The abstract of coal production Vs approved EC capacity for last 3 years are given below: <table><tr><td>Year</td><td>Coal Production (MT)</td><td>Approved capacity (Mty)</td></tr><tr><td>2023-24</td><td>13.06</td><td>15</td></tr><tr><td>2024-25</td><td>14.16</td><td>15</td></tr><tr><td>2025-26 (upto 30.09.2025)</td><td>5.37</td><td>15</td></tr></table>	Year	Coal Production (MT)	Approved capacity (Mty)	2023-24	13.06	15	2024-25	14.16	15	2025-26 (upto 30.09.2025)	5.37	15
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2023-24	13.06	15												
2024-25	14.16	15												
2025-26 (upto 30.09.2025)	5.37	15												
ii.	The validity of the EC is for the life of the Mine or as specified in the EIA Notification 2006, whichever is earlier.	Life of the mine is 35 years as per the Mining Plan and as per EIA Notification 2006 the validity of EC is 30 years. Therefore the validity of the EC will be considered as 30 years.												
iii.	All safety measures shall be taken as per Coal Mining Regulation Act, 1957 & related Circulars.	All safety measures are being taken as per Coal Mines Regulation, 2017 (Previously Coal Mine Regulation Act, 1957) & all related DGMS Circulars.												
iv.	The environmental clearance is subject to obtaining prior clearance from wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable.	Wildlife clearance not required as NO environment sensitive zone exists within 10 KM radius of mines.												
v.	Grant of environmental clearance does not necessarily implies that the wildlife clearance shall be granted to the project and that their proposals for wildlife clearance shall be considered by the respective authorities on their merits and decision taken.	Wildlife clearance not required as NO environment sensitive zone exists within 10 KM radius of mines.												
vi.	The investment made in the project, if	Wildlife clearance not required as NO environment												

	any, based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest & Climate Change shall not be responsible in this regard in any manner.	sensitive zone exists within 10 KM radius of mines.
vii.	Coal transportation to consumers be made by rail mode so as to reduce the dust pollution. Coal transport from mine to Washery and siding will be by pipe conveyor and conveyor and wagon loading through silo, as proposed by the PP. This arrangement will be ready within 3 (three) yrs and no road transport of coal after this period.	The coal transportation to consumers is being made by rail mode as per availability of rail. Due to delay in receipt of stage II forest clearance and frequent obstruction by local villagers the work of pipe conveyor and SILO could not be completed on scheduled time. Forest clearance has been obtained vide letter Dtd. 19-01-2018. 100% work of construction of Pipe conveyor and SILO has been completed. Earlier washery was planned between the pipeline and the Silo however it was dropped later. The connection between Pipeline and the Silo is under progress and it will be completed by 31.03.2026.
viii.	Fog Cannons/Atomizers be adopted to minimise dust pollution.	01 no. mobile fog cannon deployed on Haul roads and OB face and 01 no. mobile fog cannon deployed on internal CT roads and Coal corridor. 06 nos. of trolley mounted fog cannons are deployed for coal stock yard. Rains guns have been installed along coal stockyard for a length of 2 Km.
ix.	Use of dust extractor in drill machines/Wet Drilling be resorted to.	All the drills working in the mine are fitted with wet drilling arrangement.
x.	Sufficient Green Belt be provided.	Out of 440.53 Ha of forest land, tree felling has been done in only 123.56 Ha till date. Hence, 316.97 ha of forest land is present as green cover. In FY 2025-26, 1600 nos. bamboo plantation was carried out over 1 ha area within Mine lease area. In addition to this, Miyawaki plantation over an area of 1 ha, with 8000 nos saplings was carried out in Karnapur village, near Hingula OCP.
xi.	Exclusive Road Corridor for coal transportation from Hingula to NH23 be provided.	Exclusive Coal Corridor road for coal transportation from Hingula to NH149 through Talcher Coalfield has been provided.
xii.	All internal CT roads be constructed.	The permanent RCC CT roads of length 5.37 km have been constructed.
xiii.	There shall be no external OBD internal dump will be brought to ground level and final mine void will of be within 40 m depth.	There will not be any external OB dump after the mine closure. All internal dumps will be brought up to ground level and final mine void level will be maintained within 40 m depth.
xiv.	Coal transportation in pit by Tippers, Surface to Siding by Pit head to Washery (7.0 Km), Washery to SILO (900 m) by conveyor and loading at siding by rail wagon.	Due to delay in receipt of stage II forest clearance and frequent obstruction by local villagers the work of pipe conveyor and SILO could not be completed on scheduled time. Forest clearance has been obtained vide letter Dtd. 19-01-2018. 100% work of

		construction of Pipe conveyor and SILO has been completed. Earlier washery was planned between the pipeline and the Silo however it was dropped later. The connection between Pipeline and the Silo is under progress and it will be completed by 31.03.2026.								
xv.	The production shall be within the same Mining Lease area.	Coal production is being done within the mining lease area and the same will be ensured in the future.								
xvi.	The OB shall be completely re-handled at the end of the mining and will be back filled up to the ground level and covered with about a meter thick top soil and put to use. The land after mining shall be brought back for agriculture purpose.	Till date a total of 107.94 Mm3 OB has been backfilled into the mine voids. Further backfilling will be done up to ground level as per void generation and covered with a meter thick top soil. Moreover, the land after mining will be brought back for agriculture purpose.								
xvii.	Garland drains be provided.	Garland drain has been provided of 4.5 m X 4.5 m for approx. 3.8 KM length and it is desilted & properly maintained.								
xviii.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Embankment has been provided along the side of Singhada Jhor of dimension 12 m X 12 m for a length of approx. 4.7 KM. Further, OB has been dumped along the embankment (approx. 1.8 KM) which has further strengthened the embankment.								
xix.	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.	The CSR expenditure is being done as per CSR policy of CIL i.e. 2 % of the avg. net profit or Rs 2 per Tonne whichever is more. Expenditure of Hingula Area for the last 3 years is as follows: <table><tr><td>Year</td><td>Expenditure (Cr)</td></tr><tr><td>2022-23</td><td>5.08</td></tr><tr><td>2023-24</td><td>5.35</td></tr><tr><td>2024-25</td><td>4.96</td></tr></table> List of CSR activities done in last 05 years is enclosed as Annexure – I	Year	Expenditure (Cr)	2022-23	5.08	2023-24	5.35	2024-25	4.96
Year	Expenditure (Cr)									
2022-23	5.08									
2023-24	5.35									
2024-25	4.96									
xx.	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Personal Protective Equipments is provided to all the workers working in the Core area. No.of masks issued in 2024-25: 188 nos.								
xxi.	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Mining Sirdar, Mining Overman and Shift Incharge deployed at working face along with the safety department is held personally responsible for ensuring compulsory use of dust masks in the core area. <table><tr><td>Year</td><td>No.of employees undergone PME</td></tr><tr><td>2022</td><td>172</td></tr><tr><td>2023</td><td>315</td></tr><tr><td>2024</td><td>480</td></tr></table>	Year	No.of employees undergone PME	2022	172	2023	315	2024	480
Year	No.of employees undergone PME									
2022	172									
2023	315									
2024	480									
xxii.	The mining area should be surrounded by green belt having thick closed thick	Out of 440.53 Ha of forest land, tree felling has been done in only 123.56 Ha till date. Hence, 316.97 ha of								

	canopy of the tree cover.	forest land is present as green cover. In FY 2025-26, 1600 nos. bamboo plantation was carried out over 1 ha area within Mine lease area. In addition to this, Miyawaki plantation over an area of 1 ha, with 8000 nos saplings was carried out in Karnapur village, near Hingula OCP .
xxiii.	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.	Embankment has been provided along the side of Singada Jore of dimension 12 m X 12 m for a length of approx. 4.7 KM. Further, OB has been dumped along the embankment (approx. 1.8 KM) which has further strengthened the embankment. Stone Pitching along with plantation has been done on the identified critical patches.
xxiv.	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.	There is no overflow of OB into the river or into the agricultural fields Plantation of native species has been done in the area between the Singada jhor and the project.
xxv.	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional office on yearly basis.	Presently OB has been stacked at only one external OB dumpsite and the slope of the dump is less than the 28°.
xxvi.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Catch drains and siltation ponds (sumps) of have been constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water collected is being utilized for dust suppression. The drains are being regularly desilted and maintained properly. Garland drains of dimensions 4.5 m x 4.5 m and approx. 3.8 Km length have been provided. The water collected through garland drains is channelized into sumps of capacity 50.02 lakh m ³ for proper settling of silt material.
xxvii.	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Retaining wall at the toe of the dump has been constructed taking into consideration of rainfall data. The length and height of the retaining wall are 2320 m and 1.2 m respectively, which fulfill the present requirement.

xxviii.	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	CHP is not available in the mine. In FY 2025-26 as on 30.09.2025, 98.92% of total coal production was achieved through eco friendly surface miners.
xxix.	Drills shall be wet operated.	All the drills working in the mines are fitted with wet drilling arrangement.
xxx.	The project authorities shall Undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.	Maintenance of all types of roads within the mine is done at regular intervals to avoid creation of ruts and pot holes. In the FY 2024-25, expenditure of Rs 60.26 lakhs has been done for road repairing. Avenue plantation of 6.15 KM has been done on the approach roads with native species.
xxxi.	Controlled blasting shall be practices with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Controlled blasting is being done by use of Electronic delay detonators between 1 PM to 2 PM in day time which ensures that ground vibrations are minimum and fly rocks are arrested effectively.
xxxii.	A Progressive afforestation plan shall be implemented covering an area of 1049.36 ha at the end of mining, which includes reclaimed external OB Dump area (17.34 ha) and internal OB Dump area (870 ha) and green belt (79.87 ha) by planting native species by consulting the DFO/Agriculture department. The density of trees shall be around 2500 plants per hectare. Massive plantation shall be carried out in and around the mine and a 3-tier avenue plantation along the main approach road to the mine.	Out of 440.53 Ha of forest land, tree felling has been done in only 123.56 Ha till date. Hence, 316.97 ha of forest land is present as green cover. In FY 2025-26, 1600 nos. bamboo plantation was carried out over 1 ha area within Mine lease area. In addition to this, Miyawaki plantation over an area of 1 ha, with 8000 nos saplings was carried out in Karnapur village, near Hingula OCP .
xxxiii.	An estimated total 1090.08 Mm ³ of OB will be generated during the entire life of the mine. There will be two temporary external OB dumps having 65.66 Mm ³ OB in covering area of 163.00 ha on coal bearing area which will be rehandled back into the internal dump during mine life only. Out of which 1024.42 Mm ³ of OB will be dumped in one internal OB dump covering 1217.74 ha of land. The OB dump height is upto ground level. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till vegetation becomes self-sustaining and compliance status	The condition will be complied. Presently OB has been stacked at only one external OB dumpsite and the slope of the dump is less than the 28 degrees. Regular Monitoring is being done.

	shall be submitted to MOEF&CC and its regional office on yearly basis.	
xxxiv.	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Necessary restoration an reclamation plan has been included in the mine closure plan prepared keeping in mind productive and sustainable use of land.
xxxv.	Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Forest department is entrusted with compensatory Afforestation in lieu of Forest land diverted for the non-forest purpose, a sum of Rs. 3,14,32,000.00 has been deposited in CAMPA fund for this purpose.
xxxvi.	The mining should be phased out in sustainable manner. No extra overburden dumps are permitted.	No extra OB dump will be made and the OB is being backfilled simultaneously.
xxvii.	No groundwater shall be used for mining operations.	Ground water is not used for mining operations. For mining operations water is being used from the mine sump.
xxviii.	Of the total quarry area of 1409.54 Ha the backfilled quarry area of 870 Ha shall be reclaimed with plantation and a void of 539.54 Ha at a depth upto 40 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	The condition will be complied. Of the total quarry area of 1409.54 Ha the backfilled quarry area of 870 Ha will be reclaimed with plantation and a void of 539.54 Ha at a depth upto 40 m which is proposed to be converted into a water body will be gently sloped and the upper benches will be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees will be around 2500 plants per ha.
xxxix.	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forest & Climate Change and the Central Pollution Control Board quarterly within one month of monitoring.	The network of Piezometers has been installed and monitoring is being done at regular intervals by CMPDIL, Bhubaneswar and the data is being submitted to Ministry of Environment Forest and Climate Change and the Central Pollution Control Board at regular intervals. Copy of Routine Environment Monitoring done by CMPDI is enclosed as Annexure -II.
xl.	The Company shall put up artificial ground water recharge measures for augmentation of ground water resource incase monitoring indicates a decline in water table. The project authorities shall meet water requirement of near by village(s) incase the village wells go dry due to dewatering of mine	Artificial ground water recharge is underway through storing of water in mine sump. Rain water harvesting structures have been constructed in the colony and in other service buildings. The Details of artificial ground water recharge structures completed till date is as follows: No. of pond deepening – 11 Nos. The details of Rain Water harvesting structures are given below: Roof top rainwater harvesting pit has been

		constructed in following places : 1. Guest House – 2 Nos 3. Utkalika –2 Nos 2. N’Joy club – 2 Nos 4. DAV school - 1 No 5. Hingula OCP – 03 Nos. The requirement of nearby villages in dry season is fulfilled by supplying drinking water with an expenditure of Rs. 283 Lakhs in FY 2024-25								
xli.	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for work shop and CHP wastewater.	There is no separate colony provided for Hingula OCP. However, most of the employees of Hingula OCP are residing at Balram Colony where STP of 1.2 MLD capacity has been provided. ETP – 270 M ³ /day capacity is existing, which is adequate as per requirement, after the treatment the water is being reused for vehicle washing. ETP is regularly cleaned and maintained properly.								
xlii.	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through a specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.	Periodical Medical examination of every worker is done at 5 years interval which also includes test for lung diseases. Till date no such cases with lung diseases has been found. 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><td>Year</td><td>No of employees undergone PME</td></tr><tr><td>2022</td><td>172</td></tr><tr><td>2023</td><td>315</td></tr><tr><td>2024</td><td>480</td></tr></table>	Year	No of employees undergone PME	2022	172	2023	315	2024	480
Year	No of employees undergone PME									
2022	172									
2023	315									
2024	480									
xliii.	Land oustees shall be compensated as per the norms laidout R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government which ever is higher	Compensation package offered to family as per Odisha State Compensation Package- 2006 guidelines, which is better than existing National & CIL R&R policy. The details is as follows: <u>Rehabilitation</u> Families identified – 1634 Rehabilitated – 1234 (1212 empl + 22 cash) Balance - 400 Details on balance rehabilitation cases: ➤ Documents under scrutiny – 320 ➤ Not eligible - 80 <u>Resettlement</u> Displaced Families to be resettled- 1537 Families opted for self-relocation by taking onetime cash in lieu of plot - 1495 Balance families – 42								
xliv.	For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1: 5000) of the	Satellite images are being taken regularly by M/s CMPDIL. The latest satellite imagery report is enclosed as Annexure - III								

	core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for anyone particular season which is consistent in the time series), and the report submitted to MOEF&CC and its concerned Regional office.	
xliv.	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	The final Mine Closure Plan has been approved by MCL Board in the 130th meeting of Board of Directors on dated 22nd June 2011. The Corpus Fund for Hingula expansion project under Escrow Account has been deposited in Account no: 365203800001408 and the balance as on 31.03.2025 is Rs. 115.48 Crores.
xlvi.	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	CSR activities are taken after the consultation with the Panchayats of the local villages and administration. List of CSR activities done in last 03 years is enclosed as Annexure – I
xlvii.	Corporate Environment Responsibility: a. The Company shall have a well laid down Environment Policy approved by the Board of Directors. b. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/conditions. c. The hierarchical system or Administrative Order of the company to deal with environmental Issues and for ensuring compliance with the environmental clearance conditions shall be furnished. d. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large	a. Coal India as a whole has laid down an Environmental Policy for implementation in different subsidiaries. (Enclosed as Annexure -IV) b. The Environment Policy has standard operating process/procedures to bring into focus any infringements/ deviation/ violation of the environmental or forest norms/conditions. c. A separate environment management cell headed by D(T/P&P), MCL has been established in MCL and suitable qualified senior executives at HQ & area are being posted to look after the Env't. dept. (Enclosed as Annexure -V). Also qualified environmental engineers have been posted at the project level exclusively to look after the environmental functionaries. d. To have proper checks and balances, the company has a well laid down system of reporting of non-compliances/ violations of environmental norms from Project Environment Officer to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. GENERAL CONDITIONS:

Sl. No.	DETAILS OF GENERAL CONDITION	STATUS OF IMPLEMENTATION OF THE CONDITION												
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.	Complied. The mine is operating with shovel – dumper combination & surface miner is used for coal production.												
ii.	No change in the calendar plan of production for quantum of mineral coal shall be made.	There is no change in calendar plan. The abstract of coal production Vs approved capacity for last 03 years are given below: <table><tr><th>Year</th><th>Coal Production (Mty)</th><th>Approved capacity (Mty)</th></tr><tr><td>2023-24</td><td>13.06</td><td>15</td></tr><tr><td>2024-25</td><td>14.16</td><td>15</td></tr><tr><td>2025-26 (as on 30.09.2025)</td><td>5.37</td><td>15</td></tr></table>	Year	Coal Production (Mty)	Approved capacity (Mty)	2023-24	13.06	15	2024-25	14.16	15	2025-26 (as on 30.09.2025)	5.37	15
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2023-24	13.06	15												
2024-25	14.16	15												
2025-26 (as on 30.09.2025)	5.37	15												
iii.	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and Nox monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	Four numbers ambient air quality monitoring station have been established in consultation with OSPCB , namely: 1. North east of the mine , Solada Village 2. North of Mine, Purnapani, Kumunda Village 3. Near Pirakhaman village 4. Time office 1 No. of CAAQMS is installed in Project office of Hingula OCP												
iv.	Data on ambient air quality (PM10, PM2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised	Ambient air quality monitoring being carried out in the above mentioned 4(four) station on fortnightly interval, 01 No. CAAQMS installed. Copy of Routine Environment Monitoring done by the CMPDI is enclosed as Annexure-II												
v.	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Noise level is found to be within limits. The workers engaged in blasting and drilling operations of HEMM have been provided with ear muffs/ ear plugs. Copy of Routine Environment Monitoring done by the CMPDI is enclosed as Annexure-II												

vi.	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Effluent treatment plant has been established for treatment under workshop effluent and the effluent is conforming to the prescribed standard and the discharge from ETP is recycled for vehicle washing. Copy of Routine Environment Monitoring done by the CMPDI is enclosed as Annexure – II.								
vii.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Routine monitoring of vehicles are done. Periodical maintenance done as per schedule in order to control vehicular emission. Overloading of trucks is avoided. Trucks travelling outside lease hold area/ mining area covered with tarpaulin. All the vehicles carry 'Pollution Under Control' (PUC) certificate.								
viii.	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognized under EPA Rules, 1986.	The environmental laboratory is established centrally in the Talcher Coal field and M/S CMPDIL is entrusted with the monitoring job and presently they have started the air sampling analysis at the Talcher laboratory. M/S CMPDI laboratory is of National repute & the lab is approved by MoEF & CPCB and having NABL accreditation.								
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Protective respiratory devices have been provided to workers working in dusty area. Adequate training is being given on safety management to supervisors and workmen.								
x.	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	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><td>Year</td><td>No of people underwent PME</td></tr><tr><td>2022</td><td>172</td></tr><tr><td>2023</td><td>315</td></tr><tr><td>2024</td><td>480</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.	Year	No of people underwent PME	2022	172	2023	315	2024	480
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2022	172									
2023	315									
2024	480									

xi.	A separate environmental management cell with suitable qualified personnel shall be set up under the Control of a Senior Executive, who will report directly to the Head of the company.	A separate environment management cell headed by D(T/P&P), MCL has been established in MCL and suitable qualified senior executives at HQ & area are being posted to look after the Env't. dept. Also qualified environmental engineers have been posted at the project level exclusively to look after the environmental functionaries/installation. Copy Enclosed as Annexure-V																		
xii.	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Fund earmarked for environment protection measures are kept in separate account. The details of expenditure during the year 2024-25 are given below: <table><tr><th>Head</th><th>Expenditure (Rupees)</th></tr><tr><td>Tree plantation</td><td>₹ 12,23,181.13</td></tr><tr><td>Environmental Monitoring</td><td>₹ 2,96,11,932.25</td></tr><tr><td>Consent fees</td><td>₹ 60,00,000.00</td></tr><tr><td>Road Repairing</td><td>₹ 60,26,000.00</td></tr><tr><td>Other environment expenses (Catch/Garland drain, dust suppression)</td><td>₹3,35,37,816.69</td></tr><tr><td>Water Tax</td><td>₹ 33,72,414.00</td></tr><tr><td>Groundwater abstraction Charges</td><td>₹ 49,36,897.00</td></tr><tr><td>Total</td><td>₹ 8,47,08,241.07</td></tr></table>	Head	Expenditure (Rupees)	Tree plantation	₹ 12,23,181.13	Environmental Monitoring	₹ 2,96,11,932.25	Consent fees	₹ 60,00,000.00	Road Repairing	₹ 60,26,000.00	Other environment expenses (Catch/Garland drain, dust suppression)	₹3,35,37,816.69	Water Tax	₹ 33,72,414.00	Groundwater abstraction Charges	₹ 49,36,897.00	Total	₹ 8,47,08,241.07
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xiii.	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forest & Climate Change at http://envfor.nic.in .	The condition has been complied with. The details of advertisement are as follows. 1. In English daily "ODISHA POST", dt. 11.11.2015 2. In Oriya daily "SAMBAD", dt. 11.11.2015																		
xiv.	A copy of the environmental clearance letter shall be marked to concern Panchayat/ZilaParishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processingthe proposal. A copy of the clearance letter shall also be displayed on company's website.	The condition has been complied with. The EC letter is uploaded on the MCL website.																		
xv.	A copy of the environmental clearance	The condition has been complied with.																		

	letter shall be shall also be displayed on the website of the Concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	
xvi.	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project	The EC letter is uploaded on the MCL website. The compliance status of the stipulated environmental clearance conditions is also uploaded on the MCL website and is being updated in every six month.
xvii.	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Offices of CPCS and the SPCS.	The condition has been complied with.
xviii.	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	The Project authority has been extending full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports and will also do so in future.
xix.	The Environmental statement for each financial year ending 31 March in Form-V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective. Regional Offices of the MoEF & CC by e-mail.	The Environment Statement is being submitted to Board every year. Last year it was submitted vide letter no.MCL/HQ/Envt & Forest/2024/1881, dtd.30.09.2024. Attached as Annexure - VI
9.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	All the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC is being complied.
10.	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented	The commitment made to the issue raised during Public Hearing is being implemented.

	by the Proponent.	
11.	The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	The project has obtained all necessary clearances/approvals such as CTE, CTO, FC, etc.

CSR ACTIVITIES DURING 2019-20 TO 2024-25		
S. No.	Name of project/activity requested	Date of the completion of the project
1	SUPPLY OF WATER TO VILLAGE NEW GOPALPRASAD, NEW ANANTAGADIA, KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA (PACK-12)	17-06-2020
2	SUPPLY OF DRINKING WATER AT DIFFERENT PLACES OF HOCF	25-09-2020
3	SUPPLY OF WATER TO VILLAGE KUMUNDA, KUMUNDA TANLASAHI, KUMUNDA NUA TANLASAHI, KUMUNDA TENTULISAHI AND PURUNAPANI UNDER HINGULA AREA. (PACK-17)	22-06-2020
4	MOORUM SPREADING INFRONT OF CULTURAL PENDAL DURING HINGULA YATRA NEAR HOCF	
5	SUPPLY OF DRINKING WATER AT DIFFERENT PLACES OF HOCF	12-07-2020
6	SUPPLY OF WATER TO VILLAGE MALIBANDHA NUABHUIN, ANNTAGADIA AND JAMBUDHRA UNDER HINGULA AREA. (PACK-13)	28-06-2020
7	DEEPENING OF EXISTING POND OF VILLAGE CHANDRABIL (NUABANDHA) NEAR HINGULA OCP UNDER CSR, HINGULA AREA	04-04-2020
8	CONSTRUCTION OF COMMUNITY CENTER AT NISHA VILLAGE UNDER CSR WORKS OF HOCF, HA	05-01-2020
9	CONSTRUCTION OF COMMUNITY CENTER AT BAZAAR CHAKKA OF NISHA VILLAGE UNDER CSR OF HOCF, HA	05-02-2020
10	SUPPLY OF WATER TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAHI, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOLKULA FAMILY, THNLA SAHI BANIA SAHI BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA. (PACK-04)	21-06-2020
11	SUPPLY OF WATER TO BADIPACHASAH, BIRABARPUR & HARIJANSAH	08-07-2020
12	SUPPLY OF WATER TO VILLAGE CHITTALPUR, KUMUNDA NAIKSAHI, HADISAHI, KUMUNDA HADISAHI, MARADAHARIHARPUR AND AMBABURI UNDER HINGULA AREA. (PACK-16)	02-07-2020
13	SPRINKLING OF WATER AT DIFFERENT ROADS AND PROVISION OF DRINKING WATER IN THE EVENT OF HINGULA YATRA	12-06-2020
14	PROVIDING TENT ALONG WITH CLOTH CEILING AT UBASTHALI FOR HINGULA YATRA 2019	11-09-2020
15	PROVIDING TENT ALONG WITH CLOTH CEILING & FLOWER DECORATION AT HINGULA YATRA 2019	17-08-2020
16	PROVIDING OF TENT WITH CLOTH CEILING & MISCELLANEOUS WORKS FOR CULTURAL PENDAL FOR HINGULA YATRA 2019	07-11-2020
17	SUPPLY OF WATER TO VILLAGE BHALUGADIA UNDER HINGULA AREA. (PACK-11)	28-06-2020
18	SUPPLY OF WATER TO VILLAGE BANABASPUR & BHAGABASPUR UNDER HA. (PACKAGE NO.15).	28-06-2020
19	SUPPLY OF WATER TO VILL-BHALUGADIA NEAR HOCF FOR THE PERIOD 17.01.19 TO 20.03.19	20-03-2019

20	SUPPLY OF WATER VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAHI(SCHOOL SAHI),KHAMAR & PATNASAHI UNDER HA.(PACKAGE NO.14) .	28-06-2020
21	SUPPLY OF WATER TO VILLAGE KANKAREI BAHALSAHI,CHHOTOBIRINI AND PIDHAKHAMAN UNDER HINGULA AREA.(PACK-25)	15-06-2020
22	PROVIDING ONE NO. DEEP BOREWELL WITH SUBMERSIBLE PUMP, RCC TANK AND PIPE LINE WORKS AT PATNASAHI, GOPALPRASAD NEAR HOCF UNDER CSR OF HA	13-09-2020
23	SUPPLY OF WATER TO VILLAGE KALAMACHHUIN(INCLUDING HADI SAHI, HARIJANSAHI, KALIKAPRASAD AND KALAMACHHUIN BAUNSAAGADIA) UNDER HINGULA AREA(PACK-20)	23-06-2020
24	SUPPLY OF WATER TO VILLAGE SOLADA UNDER HINGULA AREA (PACK-18)	13-07-2020
25	SUPPLY OF WATER TO VILLAGE TELIPUR,TELIPUR HARIJANSAHI,TEIPUR SIKHAPALSAHI AND KHURINGA UNDER HINGULA AREA.(PACK-03)	25-11-2019
26	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF VILLAGES NEARBY HOCF & BOCF UNDER HA FOR A PERIOD OF 1 YEAR (EXCEPT SUMMER SEASON)	24-06-2019
27	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF VILLAGES NEAR HOCF	15-09-2019
28	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF BADIPACHHASAHI, BIRABARPUR & HARIJANSAHI OF KALAMCHHUIN VILLAGE NEAR HINGULA OCF UNDER HA	13-11-2019
29	SUPPLYING OF WATER TO VILLAGE KANDHABERENI, BALESWARSAHI UNDER HINGULA AREA (PACKAGE-07)	22-07-2020
30	CONSTRUCTION OF ADDITIONAL CLASSROOM AT ARABINDA SCHOOL, DANARA UNDER HINGULA AREA	13-01-2020
31	SUPPLYING OF WATER TO VILLAGE BAHALSAHI UNDER HINGULA AREA (PACKAGE-19)	12-08-2020
32	SUPPLYING OF WATER TO VILLAGE DANARA GANDHINAGAR AND DANARA ADIVASISAHI UNDER HINGULA AREA (PACKAGE-05)	05-08-2020
33	SUPPLYING OF WATER TO VILLAGE DANARA GANDHINAGAR AND DANARA ADIVASISAHI UNDER HINGULA AREA (PACKAGE-05)	05-08-2020
34	SUPPLY OF WATER TO VILLAGE KALAMACHHUIN PURUNASAHI,NUASAHI, NUAMUNDASAHI, EKTALI, KHURIAGUTHA, RANDHAN BHUIN(OLD AND NEW) UNDER HINGULA AREA.(PACK-21)	02-11-2020
35	SUPPLYING OF WATER TO VILLAGE NATADA, BADAJHARAN AND BETHIANALI UNDER HINGULA AREA (PACKAGE-24)	13-07-2020
36	SUPPLYING OF WATER TO VILLAGE NAKHIPASI UNDER HINGULA AREA (PACKAGE-06)	25-11-2019
37	SUPPLYING OF WATER TO VILLAGE JORAGADIA, TANGARASAHI, HADISAHI AND SARANG UNDER HINGULA AREA (PACKAGE-08)	24-06-2019
38	SUPPLYING OF WATER TO VILLAGE AMBAPAL, BADAMAHITAILA AND SANAMAHITAILA UNDER HINGULA AREA (PACKAGE-23)	15-09-2019
39	SUPPLYING OF WATER TO VILLAGETILEIPASI AND KHAJURIA UNDER HINGULA AREA (PACKAGE-10)	02-11-2020
40	SUPPLYING OF WATER TO VILLAGE BARAPALI UNDER HINGULA AREA (PACKAGE-09)	10-03-2020
41	CONSTRUCTION OF COMMUNITY CENTER AT NATADA VILLAGE UNDER CSR OF HINGULA AREA	2019-20

42	RENOVATION OF POND AT KUMUNDA GRAM PANCHAYAT TALCHER BLOCK UNDER CSR OF HINGULA AREA	2019-20
43	RENOVATION OF BUILDING INFRONT OF MAA HINGULA THAKURANI TEMPLE	2019-20
44	CONSTRUCTION OF PUCCA DRAIN FROM BALRAM STP TO NANDIRA JORA THROUGH KARNAPUR VILLAGE UNDER CSR HEAD OF HINGULA AREA	2019-20
45	SUPPLY OF WATER TO VILLAGE KALAMACHHUIN PURUNASAH,NUASAH, NUAMUNDASAH, EKTALI, KHURIAGUTHA, RANDHAN BHUIN(OLD AND NEW) UNDER HINGULA AREA.(PACK-21)	2019-20
46	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES AT MAJHIKA VILLAGE UNDER BOCP OF HA FOR A PERIOD OF 1 YEAR (EXCEPT SUMMER SEASON)	2019-20
47	CONSTRUCTION OF CEMENT CONCRETE ROAD FROM EXISTING ROAD NEAR RAILWAY UNDER BRIDGE TO HARIJANSAHI AT VILLAGE JAMUNALI UNDER CSR, HINGULA AREA	2019-20
48	CONSTRUCTION OF CEMENT CONCRETE ROAD WITH HUME PIPE CULVERTS FROM KUSHACHAR SAHI TO SCHOOL AT JAMUNALI VILLAGE UNDER HINGULA AREA	2019-20
49	SUPPLY OF WATER TO KUSHACHARSAHI OF JAMUNALI VILLAGE NEAR R&R SITE UNDER HINGULA AREA (PACKAGE 26)	2019-20
50	DEEPENING OF POND OF VILLAGE JAMUNALI UNDER CSR, HINGULA AREA	2019-20
51	CONSTRUCTION OF COMMUNITY CENTER AT HARIJAN SAHI OF BADAJORADA GP UNDER CSR OF HA	17-09-2019
52	EXPENDITURE FOR ACTIVITIES TAKEN UP BY PRATIBHA MAHILA MANDAL DURING THE FINACIAL YEAR 2018-19	23-09-2019
53	CONSTRUCTION OF PAVEMENT INFRONT OF THE COMMUNITY CENTER AT BADAJORADA VILLAGE UNDER CSR OF HINGULA AREA.	16-10-2019
54	PROVIDING AND FIXING OF DOORS AND WINDOWS OF THE COMMUNITY CENTER BADAJORADA VILLAGE UNDER CSR HEAD OF HINGULA AREA	12-07-2019
55	CONSTRUCTION OF YATRI NIVAS AT HINGULA PITHA UNDER CSR OF HINGULA AREA.	08-11-2019
56	SUPPLY OF WATER TO VILLAGE SANAJORADA, KARNAPUR & NATIDI UNDER HINGULA AREA (PACKAGE 02)	11-12-2019
57	SUPPLY OF WATER TO VILLAGE BADAJORADA UNDER HINGULA AREA (PACKAGE 01)	15-11-2019
58	CONSTRUCTION OF BARBED WIRE IN BAITHAK GHAR OF JAMBUBAHALI VILLAGE	04-01-2020
59	REPAIRING OF BATHING STEP OF VILLAGE POND OF JAMBUBAHALI VILLAGE	14-02-2020
60	CONSTRUCTION OF BYE-PASS ROAD AT JAMBUBAHALI VILLAGE UNDER DANARA GP.	08-02-2020
61	CONSTRUCTION OF COMPOUND WALL OF PRIMARY SCHOOL OF VILLAGE JAMBUBAHALI UNDER HINGULA AREA	15-02-2020
62	DEVELOPMENT OF PLAY GROUND BY PROVIDING SITTING GALLERY AT MINI STADIUM OF DANARA UNDER HINGULA AREA	03-02-2020
63	CONSTRUCTION OF PUCCA ROAD AND DRAINAGE SYSTEM AT NEW BRAMHAN BAHAL VILLAGE UNDER H.A.	28-03-2020

64	CONSTRUCTION OF 1200 WBM ROAD FROM THE END OF BADAJORADA TO BURIAL GROUND AT VILLAGE BADAJORADA UNDER HINGULA AREA	17-03-2020
65	CONSTRUCTION OF RAHASHAVADI AT GOTHASAH I INFRONT OF KALIMANDIR, JAMUNALI VILLAGE UNDER CSR OF HA.	21-03-2020
66	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE SANJORADA, KARNPUR & NATIDI(PACKAGE 2)	30-06-2021
67	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BADAJORADA(PACKAGE 1)	30-06-2021
68	SWACHTA HI SEVA/ SWACHHTA MONTH 2020	31-10-2020
69	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE BADAJORADA(PACKAGE 1)	30-06-2020
70	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE SANJORADA, KARNPUR & NATIDI(PACKAGE 2)	30-06-2020
71	EXPENDITURE TOWARDS WELFARE ACTIVITIES BY PRATIBHA MAHILA MANDAL HINGULA AREA	31-03-2021
72	CONSTRUCTION OF BOUNDARY WALL AT SAKOSINGHA HIGH SCHOOL, SAKOSINGHA VILLAGE UNDER CSR WORKS OF HINGULA AREA FOR THE YEAR 2019-20	14-11-2020
73	CONSTRUCTION OF PUCCA DRAIN FROM BALRAM STP TO NANDIRA JOR THROUGH KANNAPUR VILLAGE	31-03-2020
74	IMPROVEMENT OF ROAD FROM BALRAMPRASAD TO LAXMAN PRASAD (4KM)	23-06-2019
75	ARRANGEMENT REGARDING MASHAL SOBHA YATRA IN CONNECTION WITH ZILLA MOHATSAV ANGUL-2020	13-02-2020
76	PROCUREMENT OF 200 KG OF ALUM FOR HINGULA AREA	06-05-2020
77	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE MALLIBANDHA, NUAMUHIN, ANTAGADIA AND JAMBUDHARA UNDER HINGULA AREA ". (PACKAGE-13)	22-07-2020
78	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE NEW GOPALPRASAD,NEW ANTAGADIA,KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA".(PACKAGE-12)	18-07-2020
79	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE BHALUGADIA UNDER HINGULA AREA". (PACKAGE-11)	19-07-2020
80	CONSTRUCTION OF COMMUNITY CENTER OF NISHA VILLAGE UNDER CSR WORKS OF HINGULA AREA.	15-03-2020
81	CONSTRUCTION OF COMMUNITY CENTER OF NISHA BAZAR CHOK OF NISHA VILLAGE UNDER CSR WORKS OF HINGULA AREA.	15-03-2020
82	SUPPLY OF WATER TO VILLAGE TELIPUR,TELIPUR HARIJANSAHI,TEIPUR SIKHAPALSAHI AND KHURINGA UNDER HINGULA AREA.(PACK-03)	17-07-2020
83	SUPPLY OF WATER TO VILLAGE SOLADA UNDER HINGULA AREA (PACK-18)	17-07-2020
84	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE CHITTLPUR KUMUNDA NAKEIPASI, HADISAH I, KUMUNDA HADISAH I, MARDAHARIHARPUR AND AMBABURI UNDER HINGULA AREA.(PACK-16)	18-07-2020
85	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE BANABASPUR AND BAGHABASPUR UNDER HINGULA AREA (PACKAGE-15)	16-07-2020

86	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAH(SCHOOL SAHI),KHAMAR & PATNASAH UNDER HA.(PACKAGE NO.14) .	16-07-2020
87	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE KANKAREI, CHHOTBERINI AND PIDHAKHAMAN UNDER HINGULA AREA." (PACKAGE-25)	17-07-2020
88	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF DESIGNATED PLACE OF VILLAGES NEAR HOC AND BOC UNDER HA FOR A PERIOD OF ONE YEAR .(EXCEPT SUMMER SEASON)2020-21	13-12-2021
89	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAHI, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOKULA FAMILY, THNLA SAHI BANIA SAHI BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA.(PACK-04)	18-07-2020
90	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE KALAMCHHUIN(INCLUDING HADISAH, HARIJANSAH, KALIKAPRASAD AND KALAMCHHUIN BAUNSAGADIA UNDER HINGULA AREA ". (PACKAGE-20)	18-07-2020
91	SUPPLY OF WATER DURING SUMMER SEASON 2020 TO VILLAGE KUMUNDA, KUMUNDA TANLASAH,KUMUNDA NUA TANLASAH,KUMUNDA TENTULISAH AND PURUNAPANI UNDER HINGULA AREA.(PACK-17)	25-07-2020
92	ERECTING 6.6KV OVERHEAD POWER SUPPLY LINE FROM 33KV SUBSTATION OF HOC TO HINGULA MANDIR.	23-02-2020
93	CONSTRUCTION OF 4 NOS CLASS ROOM AT HIGH SCHOOL CAMPUS OF NISHA VILLAGE	10-02-2021
94	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE TELIPUR,TELIPUR HARIJANSAH,TEIPUR SIKHAPALSAH AND KHURINGA UNDER HINGULA AREA.(PACK-03)	05-07-2021
95	SUPPLY OF WATER DURING SUMMER SEASON 2021TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAHI, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOKULA FAMILY, THNLA SAHI BANIA SAHI BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA.(PACK-04)	05-07-2021
96	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAH(SCHOOL SAHI),KHAMAR & PATNASAH UNDER HA.(PACKAGE NO.14) .	16-07-2021
97	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE CHITTLPUR KUMUNDA NAKIPASI, HADISAH, KUMUNDA HADISAH, MARDAHARIHARPUR AND AMBABURI UNDER HINGULA AREA.(PACK-16)	16-07-2021
98	SUPPLY OF WATER DURING SUMMER SEASON 2021TO VILLAGE SOLODA UNDER HINGULA AREA.(PACK-18)	05-07-2021
99	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BHALUGADIA UNDER HINGULA AREA.(PACK-11)	16-07-2021
100	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KUMUNDA, KUMUNDA TANLASAH,KUMUNDA NUA TANLASAH,KUMUNDA TENTULISAH AND PURUNAPANI UNDER HINGULA AREA.(PACK-17)	07-07-2021
101	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE NEW GOPALPRASAD,NEW ANTAGADIA,KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA".(PACKAGE-12)	07-07-2021

102	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE MALLIBANDHA, NUAMUHIN, ANTAGADIA AND JAMBUDHARA UNDER HINGULA AREA ". (PACKAGE-13)	15-07-2021
103	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BANABASPUR AND BAGHABASPUR UNDER HINGULA AREA (PACKAGE-15)	24-07-2021
104	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KANKAREI, CHHOTOBERINI AND PIDHAKHAMAN UNDER HINGULA AREA." (PACKAGE-25)	04-07-2021
105	DEEPENING OF POND OF VILLAGE BANABASPUR UNDER CSR OF HINGULA OCP	03-01-2021
106	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KALAMACHHUIN(INCLUDING HADISAH, HARIJANSAH, KALIKAPRASAD AND KALAMCHHUIN BAUNSAGADIA UNDER HINGULA AREA ". (PACKAGE-20)	05-07-2021
107	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF DESIGNATED PLACE OF VILLAGES NEAR HINGULA OCP AND BALARAM OCP FOR ONE YEAR. /(EXCEPT SUMMER SEASON) UNDER CSR OF HINGULA AREA.	13-12-2021
108	SUPPLY OF WATER TO VILLAGE KANDHABARENI, BALESWARSAHI ETC	26-07-2020
109	SUPPLY OF WATER TO VILLAGE BARAPALI	25-07-2020
110	SUPPLY OF WATER TO VILLAGE BAHALSAHI	22-07-2020
111	SUPPLY OF WATER TO VILLAGE DANARA GANDHI SAGAR AND DANARA ADIWASI SAHI	25-07-2020
112	SUPPLY OF WATER TO VILLAGE TILEIPASI AND KHAJURIA	26-07-2020
113	SUPPLY OF WATER TO VILLAGE JORAGADIA, TANGARA SAHI, HADISAH UNDER HINGULA AREA	27-07-2020
114	REPAIRING OF DAMAGED HOUSE OF KALAMCHUIN VILLAGE DUE TO BLASTING OPERATION	27-10-2019
115	SUPPLY OF WATER TO VILLAGE NAKIPASI UNDER HA	27-07-2020
116	SUPPLY OF WATER TO VILLAGE AMBAL, BADAMAHITAILA AND SANA MAHITAILA UNDER HA	25-07-2020
117	SUPPLY OF WATER TO VILLAGE NATADA, BADAJHARNA AND BETHIANADI	27-07-2020
118	SUPPLY OF WATER TO VILLAGE KALAMCHUIN, PURUNASAH, NUASAH, NUAMUNDA SAHI UNDER HA	17-07-2020
119	SUPPLY OF WATER TO DOMESTIC PURPOSE AT DESIGNATED PLACES OF MAJHIKA VILLAGE UNDER BOCP	28-02-2021
120	SUPPLY OF WATER TO KUSHARANSAH OF JAMUNALI VILLAGE UNDER HA	16-07-2020
121	CONSTRUCTION OF PUCCA DRAIN IN NEAR ENTERING ENTRANCE ROAD AT JAMBUBAHALI VILLAGE	10-04-2020
122	CONSTRUCTION OF RCC DRAIN FROM DANARA MANDAPA SAHI OLD PUMP HOUSE OF BOCP,HA	07-05-2020
123	CONSTRUCTION OF RCC DRAIN AT KATASAH OF DANARA VILLAGE OF BOCP,HA	07-05-2020
124	DEEPENING OF NUABANDHA POND NEAR HINGULA AREA R&R SITE OF JAMUNALI VILLAGE	27-04-2020
125	CONSTRUCTION OF DRAIN ALONG BOTH SIDE ROAD OF JAMUNALI VILLAGE	07-05-2020
126	CONSTRUCTION OF RAHASABADI AT JAMUNALI EKTALI SAHI UNDER BOCP	03-09-2020

127	CONSTRUCTION OF BATHING STEP AND CHANGING ROOM IN VILLAGE POND KHALIAMUNDA OF JAMUNALI UNDER HINGULA AREA	07-06-2020
128	PROVIDING AND FIXING OF DUSTBIN IN VILLAGE OF JAMUNALI UNDER HINGULA AREA	27-09-2020
129	CONSTRUCTION OF RCC WATER STORAGE TANK IN FRONT OF HINGULA COLLEGE NEAR BOCF	24-10-2020
130	CONSTRUCTION OF RAHASBADI AT GOTHA SAHI IN FRONT OF KALIMANDIR, JAMUNALI UNDER CSR	29-07-2019
131	CONSTRUCTION OF BOUNDARY WALL OF AMBAPAL HIGH SCHOOL, NATADA GP UNDER CSR	11-12-2020
132	CONSTRUCTION OF CONCRETE ROAD FROM BINOD SAGAR TO DANARA MINI STADIUM AT DANARA VILLAGE UNDER CSR	16-12-2020
133	CONSTN OF KALYAN MANDAP AT DANARA VILLAGE UNDER CSR	16-04-2021
134	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE KANDHABHERENI AND BALESWARA SAHI	07-07-2021
135	SUPPLY OF WATER DURING SUMMER SEASON 2021-22 VILLAGE JORAGADIA TANGRASAH, HADISAH AND SARANG	15-07-2021
136	SUPPLY OF WATER DURING SUMMER SEASON 2021-22 VILLAGE DANARA GANDHI SAGAR AND DANAR ADIWASI SAHI	11-07-2021
137	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE AMBAPAL, BADAMAHITALA AND SANAMAHITALA	07-07-2021
138	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE BAHALASAH	07-07-2021
139	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE NAKEIPASI	16-07-2021
140	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE KALAMCHUIN PURUNASAH, NAYAKSAH, EKTALI ETC	07-07-2021
141	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE SATYABADISAGARSAH, SOLADA	19-06-2021
142	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE BARPALI	07-07-2021
143	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE SANJORADA, KARNPUR & NATIDI(PACKAGE 2)	15-07-2021
144	CONSTRUCTION OF BYE-PASS ROAD AT JAMBUBAHALI VILLAGE UNDER DANARA GP.	12-11-2020
145	EXPENDITURE TOWARDS SOCIAL WELFARE ACTIVITIES BY PRATIBHA MAHILA MANDAL HINGULA AREA IN FY 2020-21	31-03-2022
146	CONSTRUCTION OF CC ROAD AND RETAINING WALL FROM BALRAM TOWNSHIP ENTRY TO BADAJORADA VILLAGE ROAD UNDER CSR WORKS OF HINGULA AREA FOR YEAR 20-21	26-06-2021
147	DISTRIBUTION OF HAND SANITIZER BOTTLES IN NEARBY VILLAGES AND LOCALITIES OF HINGULA AREA.	17-12-2021
148	EXPENDITURE TOWARDS SOCIAL WELFARE ACTIVITIES BY PRATIBHA MAHILA MANDAL HINGULA AREA IN FY 2021-22	31-03-2022
149	SWACHHATA PAKHWADA 2021	15-10-2021
150	PROCUREMENT OF LIME FOR DISINFECTING PONDS OF BADAJORADA VILLAGE	27-03-2022
151	CONSTRUCTION OF 04 NOS. DRINKING WATER PROJECTS AT JARASINGHA GP UNDER CSR WORKS OF HA (DEPOSIT WORK)	24-08-2022
152	CONSTRUCTION OF 4 NOS CLASS ROOM AT HIGH SCHOOL CAMPUS OF NISHA VILLAGE	09-01-2021

153	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE TELIPUR, TELIPUR HARIJANSAHI, TEIPUR SIKHAPALSAHI AND KHURINGA UNDER HINGULA AREA. (PACK-03)	05-07-2021
154	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAHI, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOLKULA FAMILY, THNLA SAHI BANIA SAHI BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA. (PACK-04)	05-07-2021
155	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAHI (SCHOOL SAHI), KHAMAR & PATNASAHU UNDER HA. (PACKAGE NO.14) .	16-07-2021
156	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE CHITTLPUR KUMUNDA NAKIPASI, HADISAHI, KUMUNDA HADISAHI, MARDAHARIHARPUR AND AMBABURI UNDER HINGULA AREA. (PACK-16)	16-07-2021
157	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE SOLODA UNDER HINGULA AREA. (PACK-18)	05-07-2021
158	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BHALUGADIA UNDER HINGULA AREA. (PACK-11)	16-07-2021
159	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KUMUNDA, KUMUNDA TANLASAHI, KUMUNDA NUA TANLASAHI, KUMUNDA TENTULISAHI AND PURUNAPANI UNDER HINGULA AREA. (PACK-17)	07-07-2021
160	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE NEW GOPALPRASAD, NEW ANTAGADIA, KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA". (PACKAGE-12)	07-07-2021
161	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE MALLIBANDHA, NUAMUHIN, ANTAGADIA AND JAMBUDHARA UNDER HINGULA AREA ". (PACKAGE-13)	15-07-2021
162	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BANABASPUR AND BAGHABASPUR UNDER HINGULA AREA (PACKAGE-15)	24-03-2021
163	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KANKAREI, CHHOTOBERINI AND PIDHAKHAMAN UNDER HINGULA AREA." (PACKAGE-25)	04-07-2021
164	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE KALAMACHHUIN (INCLUDING HADISAHI, HARIJANSAHI, KALIKAPRASAD AND KALAMCHHUIN BAUNSAGADIA UNDER HINGULA AREA ". (PACKAGE-20)	05-07-2021
165	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF DESIGNATED PLACE OF VILLAGES NEAR HINGULA OCP AND BALARAM OCP FOR ONE YEAR. /(EXCPET SUMMER SEASON) UNDER CSR OF HINGULA AREA.	13-12-2021
166	PROVISION OF TENT WITH CLOTH CEILING DURING HINGULA YATRA	20-04-2021
167	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF DESIGNATED PLACE OF VILLAGES NEAR HINGULA OCP AND BALARAM OCP UNDER CSR OF HINGULA AREA.	15-07-2021
168	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF DESIGNATED PLACE OF VILLAGES NEAR HINGULA OCP AND BALARAM OCP FOR ONE YEAR. /(EXCPET SUMMER SEASON) UNDER CSR OF HINGULA AREA.	17-01-2023
169	CONSTRUCTION OF COMMUNITY CENTER AT HARIJANSAHI OF JARASINGHA VILLAGE	20-04-2022

170	SUPPLY OF WATER TO DOMESTIC PURPOSE AT DESIGNATED PLACES OF MAJHIKA VILLAGE UNDER BOCP	28-02-2021
171	CONSTRUCTION OF BATHING STEP AND CHANGING ROOM IN VILLAGE POND KHALIAMUNDA OF JAMUNALI UNDER HINGULA AREA	07-06-2020
172	CONSTRUCTION OF KALYAN MANDAP AT DANARA VILLAGE UNDER CSR OF HINGULA AREA	16-04-2021
173	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE KANDHABHERENI AND BALESWARA SAHI (PACKAGE 07)	07-07-2021
174	SUPPLY OF WATER DURING SUMMER SEASON 2021-22 VILLAGE JORAGADIA TANGRASAH, HADISAH AND SARANG (PACKAGE 08)	15-07-2021
175	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE TILEIPASI AND KHAJURIA (PACKAGE 10)	07-07-2021
176	SUPPLY OF WATER DURING SUMMER SEASON 2021-22 VILLAGE DANARA GANDHI SAGAR AND DANAR ADIWASI SAHI (PACKAGE 05)	11-07-2021
177	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE AMBAPAL, BADAMAHITALA AND SANAMAHITALA (PACKAGE 23)	07-07-2021
178	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE BAHALASAH (PACKAGE 19)	07-07-2021
179	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE NAKEIPASI (PACKAGE 06)	16-07-2021
180	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE KALAMCHUIN PURUNASAH, NAYAKSAH, EKTALI ETC (PACKAGE 21)	07-07-2021
181	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE SATYABADISAGARSAH, SOLADA	19-06-2021
182	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE BARPALI (PACKAGE 09)	07-07-2021
183	SUPPLY OF WATER DURING SUMMER SEASON TO VILLAGE NATADA, BADJHARAN AND BETHIANALI (PACKAGE 24)	05-07-2021
184	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF MAJHIKA VILLAGE FOR 01 YEAR EXCLUDING SUMMER SEASON	17-03-2022
185	BOULDER PITCHING WORKS FOR PROTECTION OF SOIL AT MINI STADIUM, DANARA VILLAGE UNDER CSR WORKS OF HINGULA AREA	23-06-2021
186	CONSTRUCTION OF WBM ROAD FROM HARAPARBATI YUBAK SANGH TO BHAGABAT RAGUDI IN DANARA VILLAGE UNDER CSR WORKS OF HA	15-09-2021
187	DEVELOPMENT OF PUBLIC UTILITY AREA NEAR POLICE SAH, ANGUL UNDER CSR WORKS OF HINGULA AREA.	06-09-2021
188	SUPPLY OF WATER DURING SUMMER SEASON TO KUSACHARSAH OF JAMUNALI VILLAGE	28-07-2021
189	CONSTRUCTION OF COMMUNITY CENTRE AT SUBARNAPUR SAH OF BADAJORADA G.P UNDER CSR OF HINGULA AREA	29-03-2023
190	CONSTRUCTION OF DOLAMANDAP OF NATADA VILLAGE UNDER CSR WORKS OF HINGULA AREA	29-11-2022
191	CONSTRUCTION OF PAVEMENT ,SHED AND GATE IN FRONT OF COMMUNITY CENTRE AT BADAJORADA VILLAGE UNDER CSR WORK HINGULA AREA	29-03-2023
192	CONSTRUCTION OF BOUNDARY WALL AT BALIMUNDA POKHARI OF DANARA VILLAGE	07-10-2022
193	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE BADAJORADA (PACKAGE 01)	24-07-2022

194	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE SANAJORADA, KARNAPUR & NATIDI (PACKAGE 02)	25-07-2022
195	CLEANING OF KUTCHA DRAIN OF KARNAPUR VILLAGE UNDER CSR, HINGULA AREA.	14-11-2022
196	PROVIDING PRE-COATED PROFILE SHEET KITCHEN AND DINING SHED AT HANUMAN VATIKA NEAR BALIMUNDA POKHARI AT DANARA VILLAGE UNDER CSR WORKS OF HINGULA AREA	20-03-2022
197	DISTRIBUTION OF WHEEL CHAIR (10 NOS.) FOR DISABLED PERSONS UNDER CSR WORKS OF HINGULA AREA.	26-01-2023
198	PROCUREMENT OF FERRIC ALUM FOR DISINFECTING WATER BODIES OF NEARBY VILLAGES UNDER CSR WORKS.	16-02-2023
199	PROVISION OF DRINKING WATER BOTTLES FOR PUBLIC DURING PANCHAYAT ELECTIONS 2022 AT TALCHER BLOCK.	20-02-2023
200	ORGANISING SAMMAN SAMAROH TO FELICITATE EMINENT WOMEN SOCIAL WORKERS OF ANGUL DISTRICT AS PART OF INTERNATIONAL WOMENS DAY CELEBRATION.	17-03-2023
201	EXPENDITURE ON VARIOUS ACTIVITIES DURING SWATCHHATA PAKHWADA 2022	30-06-2022
202	BREAKFAST PROVISION DURING HINGULA YATRA 2022.	23-04-2022
203	SUPPLY OF WATER DURING SUMMER SEASON 2021 TO VILLAGE BADAJORADA (PACKAGE 01)	04-07-2022
204	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE KANDHABERINI, BALESWAR SAHI UNDER HA (PACKAGE-07)	02-07-2022
205	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE JORAGADIA TANGARA SAHI, HADI SAHI AND SARAG UNDER HA.(PACKAGE-08)	04-07-2022
206	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE TILEIPASI AND KHAJURIA UNDER HA.(PACKAGE-10)	13-07-2022
207	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE AMBAPAL,BADAMAHITAILA SANAMAHITAILA UNDER HA.(PACKAGE-23)	20-07-2022
208	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE KALAMUCHHIN PURUNASAH, NUASAH, NUAMUNDA SAHI, EKTALI, KHURIAGUTHA, RADHANABHUIN (OLD AND NEW) UNDER HA.(PACKAGE-21)	20-07-2022
209	SUPPLYING OF WATER TO VILLAGE DANARA GANDHINAGAR AND DANARA ADIVASISAH UNDER HINGULA AREA (PACKAGE-05)	09-07-2022
210	SUPPLYING OF WATER TO VILLAGE NAKIPASI UNDER HINGULA AREA (PACKAGE-06)	11-07-2022
211	SUPPLYING OF WATER TO VILLAGE NATADA, BADAJHARAN AND BETHIANALI UNDER HINGULA AREA (PACKAGE-24)	15-07-2022
212	SUPPLY OF WATER TO VILLAGE KUMUNDA, KUMUNDA TANLASAH,KUMUNDA NUA TANLASAH,KUMUNDA TENTULISAH AND PURUNAPANI UNDER HINGULA AREA.(PACK-17)	21-07-2022
213	SUPPLY OF WATER TO VILLAGE SOLADA UNDER HINGULA AREA (PACK-18)	14-07-2022
214	SUPPLY OF WATER TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAH, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOKULA FAMILY, THNLA SAH BANIA SAH BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA.(PACK-04)	15-07-2022

215	SUPPLY OF WATER TO VILLAGE MALIBANDHA NUABHUIN, ANNTAGADIA AND JAMBUDHRA UNDER HINGULA AREA.(PACK-13)	15-07-2022
216	SUPPLY OF WATER VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAH(SCHOOL SAHI),KHAMAR & PATNASAH UNDER HA.(PACKAGE NO.14) .	13-07-2022
217	SUPPLY OF WATER TO VILLAGE KANKAREI BAHALSAHI,CHHOTOBIRINI AND PIDHAKHAMAN UNDER HINGULA AREA.(PACK-25)	19-07-2022
218	DISTEMPERING AND PAINTING OF GUEST HOUSE AND ORNAMENTAL PAINTING OF MAIN GATE OF HINGULA TEMPLE AT HINGULA OCP UNDER HINGULA AREA .	15-04-2022
219	MAKING TEMPORARY CULTURAL STAGE FOR LOKA MOHATSAV 2022	23-04-2022
220	MAKING 04 NOS. TEMPORARAY ROOMS FOR CULTURAL PROGRAM ARTISTS AND SITTING ARRANGEMENT FOR PUBLIC NEAR STAGE DURING HINGULA YATRA 2022	23-04-2022
221	FILLING OF EARTH IN DITCHES AND SAND FILLING NEAR UBHASTAHALI OF HINGULA YATRA 2022	15-04-2022
222	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO JAMUNALI KUSCHACHAR SAHI.	14-07-2022
223	MOOROM SPREADING IN FRONT OF CULTURAL PENDAL DURING HINGULA YATRA 2022	14-04-2022
224	CONSTRUCTION OF 04 NOS. OF DRINKING WATER PROJECTS AT JARASINGHA VILLAGE(DEPOSIT WORK.)	30-10-2022
225	CONSTRUCTION OF COMMUNITY CENTER AT HARIJANSAHI OF JARASINGHA VILLAGE	20-03-2022
226	SUPPLY OF WATER TO VILLAGE KALAMACHHUIN(INCLUDING HADI SAHI, HARIJANSAHI, KALIKAPRASAD AND KALAMACHHUIN BAUNSAGADIA) UNDER HINGULA AERA(PACK-20)	14-07-2022
227	SUPPLY OF WATER TO VILLAGE NEW GOPALPRASAD, NEW ANANTAGADIA, KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA (PACK-12)	19-07-2022
228	SUPPLY OF WATER TO VILLAGE TELIPUR,TELIPUR HARIJANSAHI,TEIPUR SIKHAPALSAHI AND KHURINGA UNDER HINGULA AREA.(PACK-03)	15-07-2022
229	SUPPLY OF WATER TO VILLAGE BANABASPUR & BHAGABASPUR UNDER HA. (PACKAGE NO.15).	18-07-2022
230	SUPPLY OF WATER TO VILLAGE CHITTALPUR,KUMUNDA NAIKSAHI,HADISAH,KUMUNDA HADISAH,MARADAHARIHARPUR AND AMBABURI UNDER HINGULA AREA.(PACK-16)	21-07-2022
231	ERECTION OF TENT, CLOTH CEILING, DECORATION, SNACKS AND OTHER ITEMS FOR ORGANISING MASHAL SOBHA YATRA 2022	02-04-2022
232	MAKING OF TEMPORARY 2ND CULTURAL STAGE DURING HINGULA YATRA 2022	15-04-2022
233	ERECTION OF OPEN SHED, DECORATIVE CLOTH CEILING, SAND ART SHED ETC. DURING HINGULA YATRA 2022	23-04-2022
234	SUPPLY OF WATER FOR DOMESTIC PURPOSE TO VILLAGE NEW GOPALPRASAD, NEW ANANTAGADIA, KAITHANALI & KUSUMPAL FOR A PERIOD OF ONE YEAR EXCLUDING SUMMER SEASON UNDER CSR WORK OF HINGULA OCP, HA	12-10-2023
235	DAILY CLEANING AND UPKEEPING OF TEMPLE PREMISES ALONG WITH DISPOSAL OF GARBAGES DURING HINGULA YATRA 2022	23-04-2022

236	BUSH CLEANING AND SURFACE DRESSING MOORUM SPREADING ON BOTH SIDES OF ROAD FROM JAGANNATH TEMPLE TO PATAN SAHI CHHAK DURING HINGULA YATRA 2022	22-04-2022
237	SPRINKLING OF WATER ON DIFFERENT ROADS AND PROVISION OF DRINKING WATER IN THE EVE OF HINGULA YATRA 2022	22-04-2022
238	SUPPLY OF WATER FOR DOMESTIC PURPOSE TO VILLAGE NEW GOPALPRASAD, NEW ANANTAGADIA, KAITHANALI & KUSUMPAL FOR A PERIOD OF 30 DAYS UNDER CSR WORK OF HINGULA OCP, HA	08-10-2022
239	MAKING CONCRETE APPROACH ROAD CULVERT FROM KANKAREI VILLAGE TO CHHOTOBERENI NAIK SAHI UNDER HOCP, HA	14-09-2022
240	WATERING OF BLOCK PLANTATION NEAR HINGULA TEMPLE PREMISES	16-08-2023
241	SUPPLY OF WATER TO NEARBY VILLAGES OF HOCP AND BOCP FOR A PERIOD OF 01 YEAR	18-01-2023
242	CONSTRUCTION OF KALYAN MANDAP AT DANARA VILLAGE	21-04-2021
243	SUPPLY OF WATER DURING SUMMER SEASON 2022 TO VILLAGE BARAPALI UNDER HA.(PACKAGE-09)	03-07-2022
244	SUPPLYING OF WATER TO VILLAGE BAHALSAHI UNDER HINGULA AREA (PACKAGE-19)	17-07-2022
245	CONSTRUCTION OF RAHASABADI AT GOTHASAHU INFRONT OF KALIMANDIR,JAMUNALI UNDER CSR,HINGULA AREA	30-01-2020
246	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 30 DAYS.	29-08-2022
247	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 30 DAYS.	05-10-2022
248	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 15 DAYS.	03-12-2022
249	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 15 DAYS.	18-12-2022
250	SUPPLY OF WATER TO MAJHIKA VILLAGE FOR 30 DAYS.	12-12-2022
251	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 30 DAYS.	07-11-2022
252	SUPPLY OF WATER TO SATYABADIPUR SAHI FOR 30 DAYS.	22-01-2023
253	CONSTRUCTION OF CC ROAD FROM (A) NENKURI SAHOO HOUSE TO NAROTTAM SAHOO HOUSE (B) MANDAP TO OLD PUMP HOUSE © REMESH SAHOO HOUSE TO GUNAKAR SAHOO HOUSE AT DANARA VILLAGE UNDER CSR WORK OF BOCP UNDER HA.	15-03-2023
254	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF MAJHIKA VILLAGE UNDER BALRAM OCP OF HINGULA AREA. (FOR A PERIOD OF ONE YEAR EXCEPT SUMMER SEASON).	18-01-2024
255	SUPPLY OF WATER FOR DOMESTIC PURPOSE TO SATYABADIPUR OF SOLADA VILLAGE OF BALRAM OCP FOR 02 MONTHS UNDER HINGULA AREA.	22-03-2023
256	CONSTRUCTION OF BOUNDARY WALL AT REGIONAL YOGA CENTER OF DANARA G.P. UNDER CSR WORKS OF HINGULA AREA	23-07-2023
257	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE BADAJORADA UNDER HINGULA AREA (PACKAGE-01).	15-07-2023
258	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE SANAJORADA, KARNAPUR AND NATEDI UNDER HINGULA AREA (PACKAGE-02)	03-08-2023
259	SETTING UP OF PYAAU STALL DURING THE PERIOD OF HINGULA YATRA 2023	12-04-2023

260	"ERECTION OF TENT INFRONT OF HINGULA TEMPLE MUKHASAL, GATE NO. 02 ENTRANCE AREA, MAHILA MANDAL, SAND ART SHED, HINGULA OCP STALL, POLICE CAMP, SECURITY POST, PUJAK HOUSE, 4 NOS. SUNSTROKE ROOM, REST SHED, FIRST AID BOX GATE AND FLAT GATE WITH FLEX PRINTS BANNER AND FLOWER DECORATION FOR HINGULA YATRA 2023."	12-04-2023
261	MAKING TEMPORARY CULTURAL STAGE FOR HINGULA YATRA & 19TH LOK MOHATSAV 2023 UNDER CSR WORKS OF HINGULA AREA.	12-04-2023
262	REPAIR AND MAINTENANCE OF ROAD FROM SALABANI CHHAK TO SOLADA SHIV TEMPLE CHHAK (HINGULA OLD TRANSPORTING ROAD) AND KALAMCHHUIN BAUNSAGADIA TO TELIPUR FOR HINGULA YATRA 2023 UNDER CSR WORKS OF HINGULA AREA.	12-04-2023
263	RENOVATION OF KOTHAGHARA AND FLOOR OF RAHASHABADI AT EKTALI SAHI OF JAMUNALI VILLAGE UNDER CSR WORKS OF HINGULA AREA.	23-10-2023
264	CONSTRUCTION OF CULVERT WITH APPROACH ROAD TO BUS-STOP SHELTER AT JAMBUBAHALI BUS-STAND UNDER CSR WORKS OF HINGULA AREA.	03-01-2024
265	CONSTRUCTION OF COMMUNITY DOLA MANDAP STRUCTURE NEAR COMMUNITY CENTER OF AMBAPAL VILLAGE UNDER CSR WORKS OF HINGULA AREA	11-01-2024
266	CONSTRUCTION OF CULVERT NEAR PURUNA POKHARI OF DANARA VILLAGE UNDER CSR WORKS OF HINGULA AREA.	24-Feb-24
267	CONSTRUCTION OF CEMENT CONCRETE ROAD FROM RD ROAD TO AMBEDKAR NAGAR OF NEW BRAHMANI BAHAL UNDER CSR WORK OF BALRAM OCP UNDER HINGULA AREA.	31-07-2023
268	CONSTRUCTION OF PATHWAY INSIDE MINI STADIUM OF DANARA GP UNDER CSR WORKS OF BALRAM OCP UNDER HINGULA AREA	24-05-2023
269	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF MAJHIKA VILLAGE UNDER BALRAM OCP OF HINGULA AREA. (FOR A PERIOD OF ONE YEAR EXCEPT SUMMER SEASON).	18-01-2024
270	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE NATADA, BADAJHARAN AND BETHIANALI UNDER HINGULA AREA (PACKAGE-24)	29-07-2023
271	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE KALAMACHHUIN PURUNASAH, NUASAH, NUAMUNDASAH, EKTALI, KHURIAGUTHA, RANDHAN BHUIN(OLD AND NEW) UNDER HINGULA AREA.(PACK-21)	04-08-2023
272	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE AMBAPAL, BADAMAHITAILA AND SANAMAHITAILA UNDER HINGULA AREA (PACKAGE-23)	27-07-2023
273	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE JORAGADIA, TANGARASAH, HADISAH AND SARANG UNDER HINGULA AREA (PACKAGE-08)	01-08-2023
274	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE BAHALSAH UNDER HINGULA AREA (PACKAGE-19)	24-07-2023
275	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE NAKIPASI UNDER HINGULA AREA (PACKAGE-06)	13-07-2023
276	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE SOLADA UNDER HINGULA AREA (PACKAGE-18)	22-07-2023
277	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE BARAPALI UNDER HINGULA AREA (PACKAGE-09)	29-07-2023

278	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE DANARA GANDHINAGAR AND DANARA ADIVASISAHU UNDER HINGULA AREA (PACKAGE-05)	29-07-2023
279	SUPPLYING OF WATER DURING SUMMER SEASON 2023 TO VILLAGE KANDHABERENI, BALESWARSAHI UNDER HINGULA AREA (PACKAGE-07)	29-07-2023
280	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO KUSACHARSAHI OF JAMUNALI VILLAGE.	23-07-2023
281	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE TILEIPASI AND KHAJURIA UNDER HINGULA AREA (PACKAGE-10)	17-07-2023
282	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE MAJHIKA, BIRABARPUR, SOLADA DEULSAHI, NATHAGAON POLICE OUT POST KALAMACHHUIN, PHC KALAMACHHUIN INCLUDING HINGULA HIGH SCHOOL, GOLKULA FAMILY, THNLA SAHI BANIA SAHI BIDYADHAR AND ANATRYAMI UNDER HINGULA AREA.(PACKAGE-04)	22-07-2023
283	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF VILLAGE NEARBY HOCF & BOCF FOR A PERIOD OF ONE YEAR (EXCEPT SUMMER SEASON) UNDER CSR WORKS OF HINGULA AREA, MCL (ANNUAL PACKAGE)	28-03-2024
284	SUPPLY OF WATER FOR DOMESTIC PURPOSE AT DESIGNATED PLACES OF SATYABADIPUR SAHI OF SOLADA VILLAGE FOR A PERIOD OF ONE YEAR (EXCEPT SUMMER SEASON) UNDER CSR WORKS OF HINGULA AREA, MCL (ANNUAL PACKAGE)	28-03-2024
285	IMPROVEMENT AND INSTALLATION OF PAVER BLOCK OVER THE SURROUNDING PATH OF MODEL TANK, BALIMUNDA POKHARI AT DANARA VILLAGE UNDER CSR WORKS OF BALRAM OCP, HA	11-01-2024
286	SPRINKLING OF WATER ON DIFFERENT ROADS AND PROVISION OF DRINKING WATER IN THE UBASTHALI OF HINGULA YATRA AND LOK MOHATSAV 2023	12-04-2023
287	DEPLOYMENT OF 30 LABOUR FOR CLEANING PURPOSE OF TEMPLE, YATRA PADIA ETC ALONG WITH DISPOSAL OF GARBAGE, DURING HINGULA YATRA 2023	13-04-2023
288	DISTEMPERING AND PAINTING OF GUEST HOUSE AND ORNAMENTAL PAINTING OF MAIN GATE OF HINGULA TEMPLE FOR HINGULA YATRA & LOK MOHATSAV 2023.	03-04-2023
289	MOOROM SPREADING IN FRONT OF UBASTHALI AND CULTURAL PENDAL OF HINGULA YATRA 2023.	03-04-2023
290	PROVIDING TYRE MOUNTED HYDRAULIC EXCAVATION 3D FOR HINGULA YATRA & 19TH LOK MOHATSAV 2023	03-04-2023
291	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF VILLAGE , NEW GOPAL PRASAD, NEW ANATA GADIA KAITHANALI AND KUSUMPAL FOR A PERIOD OF 01 YEAR EXCLUDING SUMMER SEASON UNDER CSR WORK OF HINGULA OCP HINGULA AREA .	12-10-2023
292	WATERING OF BLOCK PLANTATION AROUND THE HINGULA TEMPLE PREMISES AND SALABANI CHHAK TO SINGODA JORE (KUMUNDA BRIDGE) FOR A PERIOD OF 180 DAYS EXCLUDING MONSOON UNDER CSR WORKS OF HINGULA OCP, HINGULA AREA.	14-08-2023
293	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE TELIPUR, TELIPUR HARIJANSAHU, TEIPUR SIKHAPALSAHI AND KHURINGA UNDER HINGULA AREA.(PACK-03)	22-07-2023

294	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE GOPAL PRASAD, GOPAL PRASAD KHALISAH(SCHOOL SAHI),KHAMAR & PATNASAH UNDER HA.(PACKAGE NO.14) .	17-07-2023
295	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE CHITTLPUR KUMUNDA NAKEIPASI, HADISAH, KUMUNDA HADISAH, MARDAHARIHARPUR AND AMBABURI UNDER HINGULA AREA.(PACK-16)	15-07-2023
296	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE KUMUNDA, KUMUNDA TANLASAH,KUMUNDA NUA TANLASAH,KUMUNDA TENTULISAH AND PURUNAPANI UNDER HINGULA AREA.(PACK-17)	15-07-2023
297	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE MALLIBANDHA, NUAMUHIN, ANTAGADIA AND JAMBUDHARA UNDER HINGULA AREA ". (PACKAGE-13)	19-07-2023
298	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE NEW GOPALPRASAD,NEW ANTAGADIA,KAINTHANALI AND KUSUMPAL UNDER HINGULA AREA".(PACKAGE-12)	29-07-2023
299	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE BANABASPUR AND BAGHABASPUR UNDER HINGULA AREA (PACKAGE-15)	14-07-2023
300	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE KALAMACHHUIN(INCLUDING HADISAH, HARIJANSAH, KALIKAPRASAD AND KALAMCHHUIN BAUNSAGADIA UNDER HINGULA AREA ". (PACKAGE-20)	22-07-2023
301	SUPPLY OF WATER DURING SUMMER SEASON 2023 TO VILLAGE KANKAREI, CHHOTBERINI AND PIDHAKHAMAN UNDER HINGULA AREA." (PACKAGE-25)	31-07-2023
302	SUPPLY OF WATER FOR DOMESTIC PURPOSE OF VILLAGE KUSUMPAL, NEW GOPALPRASAD, NEW ANANTAGADIA & KAINTHANALI FOR A PERIOD OF 40 DAYS UNDER CSR WORKS OF HOC, HA.	06-01-2024
303	ORGANISING A MASSIVE CLEANLINESS DRIVE AT PATRAPADA TOURIST SPOT UNDER CSR WORKS OF HINGULA AREA	01-10-2023
304	CONDUCTING A VILLAGE HEALTH CAMP AT BADATRIBIDA VILLAGE UNDER CSR WORKS OF HINGULA AREA	22-09-2023
305	CONDUCTING SWACHHATA PAKHWADA 2023 UNDER CSR WORKS OF HINGULA AREA	30-06-2023
306	DISTRIBUTION OF MUSICAL INSTRUMENTS TO CHALLENGED PEOPLE DURING SAVAN UNDER CSR WORKS OF HINGULA AREA	
307	PROVIDING OF LIGHTS AT SURROUNDING THE PATHWAY OF BALIMUNDA ADARSHA POKHARI OF VILLAGE DANARA NEAR BALRAM OCP UNDER CSR WORKS OF HINGULA AREA	02-04-2024
308	PROVIDING 3 NOS OF BAMBOO MAT JALACHHATRA NEARBY HINGULA OCP UNDER CSR WORKS OF HINGULA AREA	28-06-2023
309	MAKING LIGHTING ARRANGEMENT FOR HINGULA YATRA & 19TH LOK MOHATSAV 2023 UNDER CSR WORKS OF HINGULA AREA.	12-04-2023
310	DISMANTLING AND REERECTION WORKS FOR HINGULA YATRA & 19TH LOK MOHATSAV 2023 UNDER CSR WORKS OF HINGULA AREA.	12-04-2023
311	Supply of water during summer season 2023 to village Sanajorada, Karnapur and Natedi under Hingula Area (Package-02)	02-08-2023

312	Supply of Water for domestic purpose at designated places of village nearby HOCP & BOCP for a period of one year (except summer season) under CSR works of Hingula Area, MCL (Annual Package)	28-03-2024
313	Supply of Water for domestic purpose at designated places of Satyabadipur sahi of Solada village for a period of one year (except summer season) under CSR works of Hingula Area, MCL (Annual Package)	28-03-2024
314	Improvement and Installation of Paver block over the surrounding path of Model tank, Balimunda pokhari at Danara village under CSR works of Balram OCP, HA	10-01-2024
315	Supply of water for domestic purpose of village kusumpal, New Gopalprasad, new anantagadia & kainthanali for a period of 40 days under CSR works of HOCP, HA.	06-01-2024
316	Supply of water for domestic purpose to village Kusumpal, New Gopal Prasad ,New Anatagadia and Kaithanali For a period of one year excluding summer season under CSR works of Hingula Area.	31-01-2025
317	Construction of community mandap at Badamahitala village of Natada GP under CSR works of Hingula OCP under Hingula Area (under CSR work)	23-05-2024
318	Supplying of water during summer season 2024 to village Danara Gandhinagar and Danara Adivasisahi under Hingula Area (Package-05)	03-08-2024
319	Supplying of water during summer season 2024 to village Bahalsahi under Hingula Area (Package-19)	03-08-2024
320	Supply of water for domestic purpose at designated places of Majhika village under Balram OCP of Hingula Area. (For a period of one year except summer season).	31-03-2025
321	Supplying of water during summer season 2024 to village Nakeipasi under Hingula Area (Package-06)	03-08-2024
322	Supply of water during summer season 2024 to village Solada under Hingula Area (Pack-18)	20-08-2024
323	Supplying of water during summer season 2024 to village Joragadia, Tangarasahi, Hadisahi And Sarang under Hingula Area (Package-08)	06-08-2024
324	Supply of water during summer season 2024 to village Gopal prasad, Gopal prasad Khalisahi(School Sahi),Khamar & Patnasahi under HA.(Package No.14) .	15-08-2024
325	Supply of water during summer season 2024 to village Tileipasi and Khajuria under Hingula Area (Package-10)	09-08-2024
326	Supplying of water during summer season 2024 to village Barapali under Hingula Area (Package-09)	17-08-2024
327	Supply of water during summer season 2024 to village Kankarei, Chhotoberini and Pidhakhaman under Hingula Area." (Package-25)	17-08-2024
328	Supplying of water during summer season 2024 to village Ambapal, Badamahitaila and Sanamahitaila under Hingula Area (Package-23)	17-08-2024
329	Supply of water during summer season 2024 to village New Gopalprasad,New Antagadia,Kainthanali and Kusumpal under Hingula Area".(Package-12)	18-08-2024

330	Supply of water during summer season 2024 to village Kalamachhuin(Including Hadisahi, Harijansahi, Kalikaprasad and Kalamchhuin Baunsagadia under Hingula Area ". (Package-20)	18-08-2024
331	Supply of water during summer season 2024 to village Natada, Badajharan and Bethianali under Hingula Area (Package-24)	18-08-2024
332	Supplying of water during summer season 2024 to village Kandhabereni, Baleswarsahi under Hingula Area (Package-07)	20-08-2024
333	Supply of water during summer season 2024 to Kusacharsahi of Jamunali village.	20-08-2024
334	Supply of water during summer season 2024 to village Kalamachhuin Purunasahi,Nuasahi, Nuamundasahi, Ektali, Khuriagutha, Randhan Bhuin(Old and New) under Hingula Area.(Pack-21)	20-08-2024
335	Watering of Block plantation around the Hingula temple premises and salbani chhack to kumunda bridge of Hingula OCP under CSR Work Hingula Area for a period of 01 year (excluding monsoon period).	30-04-2025
336	Erection of tent infront of Hingula temple Mukhasal, Gate No. 02 Entrance area, Mahila Mandal, Sand art shed, Hingula OCP Stall, Police Camp, Security post, pujak house, 4 nos. sunstroke room, rest shed, first aid box gate and flat gate with flex prints banner and flower decoration for Hingula Yatra 2024	28-04-2024
337	Making Temporary cultural stage for Hingula Yatra & 20th Lok Mohatsav 2024 under CSR works of Hingula Area.	28-04-2024
338	Providing tyre mounted hydraulic excavator and Deployment of labour for cleaning purpose of Hingula temple premises for Hingula Yatra & 20th Lok Mohatsav 2024 under CSR works of Hingula Area.	28-04-2024
339	Sprinkling of water on different roads and provision of drinking water in the Ubasthali of Hingula Yatra and 20th Lok Mohatsav 2024	30-04-2024
340	Distempering and painting of guest house and ornamental painting for Hingula Yatra & 20th Lok Mohatsav 2024.	30-04-2024
341	Supply of water during summer season 2024 to village Kumunda, Kumunda Tanlasahi,Kumunda Nua Tanlasahi,Kumunda Tentulisahi and Purunapani under Hingula Area.(Pack-17)	20-08-2024
342	Supply of water during summer season 2024 to village Chittlpur Kumunda Nakeipasi, Hadisahi, Kumunda Hadisahi, Mardahariharpur and Ambaburi under Hingula Area.(Pack-16)	20-08-2024
343	Supply of water during summer season 2024 to village Mallibandha, Nuamuhin, Antagadia and Jambudhara under Hingula Area ". (Package-13)	20-08-2024
344	Supply of water during summer season 2024 to village Banabaspur and Baghabaspur under Hingula Area (Package-15)	20-08-2024
345	Supply of water during summer season 2024 to village Majhika, Birabarpur, Solada Deulsahi, Nathagaon Police out post Kalamachhuin, PHC Kalamachhuin including Hingula High School, Golkula family, Thnla sahi Bania sahi Bidyadhar and Anatriyami under Hingula Area.(pack-04)	20-08-2024

346	Supply of water during summer season 2024 to village Telipur, Telipur Harijansahi, Teipur Sikhapalsahi and Khuringa under Hingula Area. (Pack-03)	20-08-2024
347	Supply of water during summer season 2024 to village Badajorada under Hingula Area (Package-01).	18-08-2024
348	Supply of water during summer season 2024 to village Sanajorada, Karnapur and Natedi under Hingula Area (Package-02)	18-08-2024
349	Construction of Public Training Centre at DIG Office, Police Training College, Angul under CSR works of Hingula Area.	15-09-2024
350	Construction of Two nos Toilet near Maa Hingula Guesthouse premises of CSR work at Hingula OCP Under Hingula Area	15-08-2024
351	Construction of Kitchen room near Maa Hingula Guesthouse premises of CSR work at Hingula OCP under Hingula Area. (CSR work)	15-08-2024
352	Construction of open shed in front of wash room near Hingula Temple premises at Hingula OCP under CSR works of Hingula Area. (Re-Tender)	14-11-2024
353	Providing a borewell with submersible pump, overhead tank and pipeline connection at Badajorada Nodal UP school under CSR works of Hingula Area.	15-09-2024
354	Supply of water for domestic purpose at designated places of village nearby HOCP and BOCP for a period of 01 year (except summer season) under CSR works of Hingula Area.	16-09-2025
355	Supply of water for domestic purpose at designated places of satyabadipur sahi of solada village near balram ocp under Hingula Area for a period of one year (except summer season) under CSR works of Hingula Area. (Re-Tender)	10-10-2025
356	Erection of tent on the eve of panchuak yagya at Hingula Temple premises of Hingula OCP Under Hingula Area.	15-11-2024
357	Celebration of "Swachhta Pakhwada in Hingula Area MCL under CSR works.	02-07-2024
358	Conducting a village health camp at nearby village under CSR works of Hingula Area MCL.	01-10-2024
359	Celebration of "Swachhta Hi Seva from, 15 sep to 02 Oct 2024 in MCL Hingula Area under CSR works.	02-10-2024
360	Sanction of Rs. 4,64,064/- towards the cost of Cricket equipment/materials to conduct training to promote Nationally Recognised Sports (Cricket) by District Administration (Sub-Collector and Sub-Divisional Magistrate), Angul	29-04-2024
361	Erection of tent and arrangement of drinking water ORS Juice at booths of Kumunda GP, Gopalprasad GP, Kalamchhuin, Danara, Padmabatipur (32 Nos polling booths) for General Elections 2024 Under CSR works of Hingula Area.	25-05-2024
362	Providing a borewell with submersible pump, overhead tank and pipeline connection at Badajorada shiva mandir sahi under CSR works of Hingula Area.	18-01-2025

Environmental Monitoring Report Of Hingula Area For April-2025

Talcher Coalfield



MCL

Mahanadi Coalfields Limited



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cmpdi
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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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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Balaram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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BHUBANESWAR

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Area :

Hingula

(Compliance Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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

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CMPDI, RI-VII, LAB
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(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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BHUBANESWAR

Project :**Balram OCP****(conc. in $\mu\text{g}/\text{cu.m.}$)**

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

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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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

<i>Date of Sampling</i>	<i>Monitoring Station</i>	<i>SPM</i>	<i>PM10</i>	<i>PM2.5</i>	<i>SO2</i>	<i>NOx</i>	<i>Dust Generating Source(DGS)</i>	<i>Distance from DGS</i>
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		

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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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(ann ual)

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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 (a) Pyrene	Benzen e
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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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Project	Hingula OCP							
Monitoring Station	Sanamahitala Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	6.0(Ann ual)	20 (Annua l)	02(8ho urs)	01 (annual)	05(ann ual)


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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)

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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Hingula
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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/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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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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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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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	240	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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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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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

Anto

Authorised Signatory
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BHUBANESWAR



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मिनी रत्ना
cmpdi
Mini Ratna

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 CO ₃)(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 CO ₃)(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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CMPDI RI-VII, LAB
BHUBANESWAR

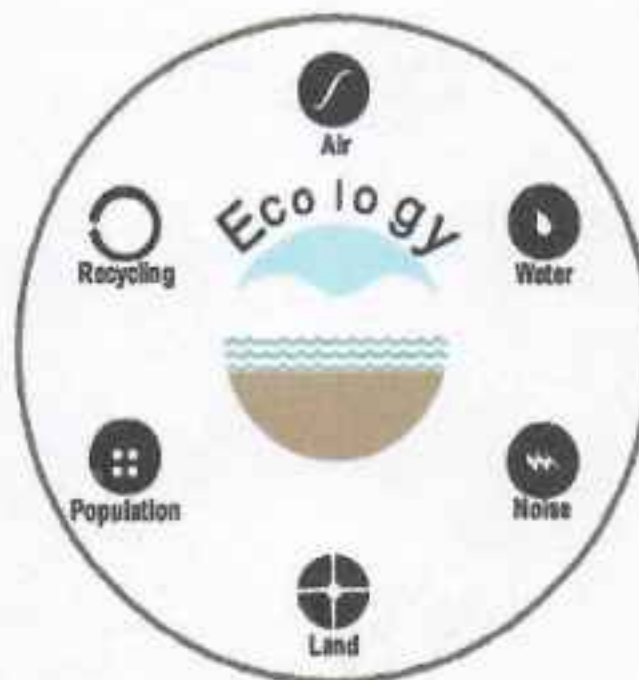
**Environmental Monitoring Report
Of
Hingula Area
For
May-2025**

Talcher Coalfield



MCL

Mahanadi Coalfields Limited



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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 $\mu\text{g}/\text{cu.m.}$)

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

Authorised Signatory
CMPDI, R.V. LAG
BHUBANESWAR

1/2/25

Station: Hingula North Station dated 25th

500 250 120 120



Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Balaram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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[Signature]

Attestation dated 25th

600 300 120 120

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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	Kankarei 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

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Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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14/05/2009

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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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		

*N.A.QS, 2009

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Aditya

Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

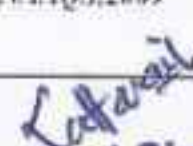
*NAAQS, 2009

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 BHUBANESWAR



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	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(ann ual)




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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	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24hours)	6.0(Annual)	20(Annual)	02(8hours)	01(annual)	05(annual)




RHUBANESWAR

 सीएमपीडीआई मिनी रातना cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Hingula
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Project	Hingula OCP							
Monitoring Station	Banabaspur Village							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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)

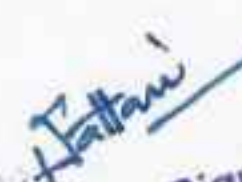
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RHUBANESWAR

 सीएमपीडीआई मिनी रत्ना cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Hingula
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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	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	6.0(Annual)	20 (Annual)	02(8hours)	01 (annual)	05(annual)




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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Hingula
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Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH₃)	Ozone (O₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(h our)	1.0(24h ours)	6.0(A nnual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(annu al)

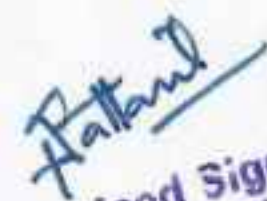



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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area:Hingula
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Project	Balram OCP							
Monitoring Station	Natada Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)




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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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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/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

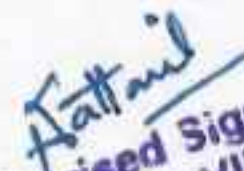
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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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Project	Balram OCP							
Monitoring Station	Solada Village (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

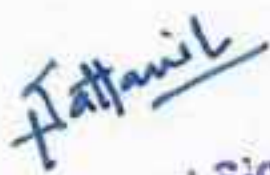



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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA Area:Hingula
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Project	Hingula OCP
Monitoring Station	Time Office
Date of sampling	Carbon Monoxide (CO)
	mg/m3
08-May-2025	1.3
22-May-2025	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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आरोग्य और पर्यावरण

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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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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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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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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मिनी रत्ना
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Mini Ratna

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 CO ₃)(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 CO ₃)(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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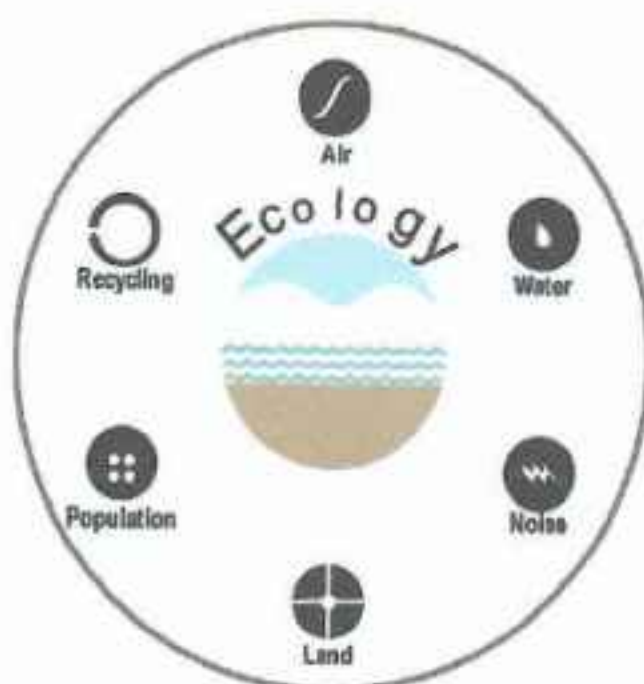
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**Environmental Monitoring Report
Of
Hingula Area
For
June-2025**

Talcher Coalfield



Mahanadi Coalfields Limited



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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 $\mu\text{g}/\text{cu.m.}$)

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

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Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Balaram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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Project :**Hingula OCP****(conc. in $\mu\text{g}/\text{cu.m.}$)**

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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Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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Project :**Balram OCP****(conc. in $\mu\text{g}/\text{cu.m.}$)**

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

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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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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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Mini Ratna

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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	6.0(Annual)	20 (Annual)	02(8hours)	01 (annual)	05(annual)

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 सीएमपीडीआई मिनी रत्ना cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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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	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(ann ual)


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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

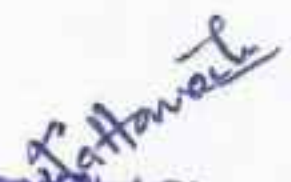
Project	Balram OCP							
Monitoring Station	Purunasahi Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
02-Jun-2025	<20.0	13.63	<0.1	<1.0	<1.0	1.2	BQL(QL=0.7)	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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)


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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA Area: Hingula
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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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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



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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
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 CO ₃)(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 CO ₃)(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

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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	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



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Mahanadi Coalfields Limited



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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 $\mu\text{g}/\text{cu.m.}$)

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 $\mu\text{g}/\text{cu.m.}$)

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

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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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Project :

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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		

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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

Project	Hingula OCP							
Monitoring Station	Kankarevi Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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) ($\mu\text{g}/\text{m}^3$)	Ozone (O ₃) ($\mu\text{g}/\text{m}^3$)	Lead (Pb) ($\mu\text{g}/\text{m}^3$)	Arsenic (As) (ng/m^3)	Nickel (Ni) (ng/m^3)	CO (mg/m^3)	Benzo (a) Pyrene (ng/m^3)	Benzen e ($\mu\text{g}/\text{m}^3$)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	6.0(Ann ual)	20 (Annua l)	02(8ho urs)	01 (annual)	05(ann ual)

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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) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(ann ual)

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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/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

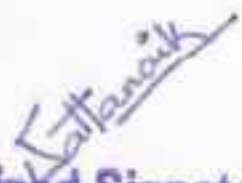
Project	Balram OCP							
Monitoring Station	Natada Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-Jul-2025	<20.0	23.50	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annual)	05(annu al)


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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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BHUBANESWAR

Jasmati

 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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Project	Hingula OCP				
Monitoring Station	Time Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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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Noise Rating

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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Signature



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भारत सरकार
cmpdi

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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सीएमपीडीआई
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ANALYTICAL

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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BHUBANESWAR

Januati



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मिनी रत्न
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Mini Ratna

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 CO ₃)(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 CO ₃)(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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Jasmati

Hingula OCP

Legend

Monitoring Station

Banabaspur Village

Solada Village

Kankarai Village

Time Office

Balichandrapur Village

South West Side of the Mine

Sanamahitola Village

Google Earth

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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

Version 3.0.0.1000

3/1/10

**Environmental Monitoring Report
Of
Hingula Area
For
August-2025**

Talcher Coalfield



MCL

Mahanadi Coalfields Limited



cmpdi

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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RI-VII, LAB
Bhubaneswar

Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

Kattanaik
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CMPDI, RI-VII, LAB
BHUBANESWAR

Jasmati

MoEF Standards Notification dated 25th
September, 2000

500	250		120	120
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AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

Taffanah
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 BHUBANESWAR

Januati

*NAAQS, 2009

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सीएमपीडीआई
cmpdi
AIR QUALITY

Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Balaram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

J. Hanish
Authorised Signatory
CMPDI, RI-VII, LAB
BHUBANESWAR

Signature

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 :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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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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 सीएमपीडीआई मिनी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180 (hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	6.0(Ann ual)	20 (Annua l)	02(8ho urs)	01 (annual)	05(ann ual)

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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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annual)	05(ann ual)

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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 (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(h our)	1.0(24h ours)	6.0(A nnual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(annu al)


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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(A nnual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(annu al)

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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 (a) Pyrene	Benzene
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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 सीएमपीडीआई मिनी रत्ना cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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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/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)


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 सीएमपीडीआई निजी रत्न cmpdi Mini Ratna	AMBIENT AIR QUALITY DATA Area: Hingula
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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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Januati



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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 23th 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--



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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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Jasmati

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--



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Water Solutions

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	-	

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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--



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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

Fatma
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Jasmati

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 CO ₃)(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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Jamali



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Drinking Water Quality Data Hingula Area

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
	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 CO ₃)(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

Samrat



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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 (asCaCO 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
Hexavalent 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 (asCaCO 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
Hexavalent 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 CO ₃)(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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Janak



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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 CO ₃)(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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Samuel

Hingula OCP

Legend

Monitoring Station

Banabaspur Village

Solada Village

Time Office

Kankarai Village

Balichandrapur Village

South West Side of the Mine

Sanamahitola Village

Google Earth

North Arrow



Balram OCP

Legend

Monitoring Station

Khajuria Village

Solada Village

Purunasahi Village

Natada Village

Natedi Village

Pump House near Outsourcing Working Patch

Near Project Office

Google Earth

Image © 2025 Google

**Environmental Monitoring Report
Of
Hingula Area
For
September-2025**

Talcher Coalfield



MCL

Mahanadi Coalfields Limited



cmpdi

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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सीएमपीडीआई
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MINI BUREAU

Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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

Signature

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Signature

MoEF Standards Notification dated 25th
September, 2000

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AIR MONITORING

Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Compliance Station)

Project :

Balaram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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MoEF Standards Notification dated 25th
September, 2000

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Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

Date of Sampling	Monitoring Station	SPM	PM10	PM2.5	SO ₂	NO _x	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		

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Project :

Hingula OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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		

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Test Report

AMBIENT AIR QUALITY DATA

Area :

Hingula

(Reference Station)

Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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

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Project :

Balram OCP

(conc. in $\mu\text{g}/\text{cu.m.}$)

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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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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180 (hour)	1.0(24h ours)	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	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	02(8hou rs)	01(annu al)	05(ann ual)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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AMBIENT AIR QUALITY DATA (NAAQS PARAMETER)

Area: Hingula

Project	Balram OCP							
Monitoring Station	East Mine, Natedi Village							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(An nual)	02(8ho urs)	01(annual)	05(annu al)

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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/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
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(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	02(8 hours)	01(annual)	05(annual)

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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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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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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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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 (asCaCO ₃),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
Hexavalent 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 °C above the receiving temperature
pH	7.90	5.5-9.0
Total Hardness (asCaCO ₃),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
Hexavalent 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	Acceptable	Permissible
Date of Sampling	13-Sep-2025	13-Sep-2025	13-Sep-2025	5	15
Colour(Hazen)	3	3	4	Agreeable	Agreeable
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	1	5
Turbidity(NTU)	2	3	3	6.5-8.5	No relaxation
pH	6.77	7.86	7.45	200	600
Total Alkalinity(mg/L)	117.65	252.12	369.77	250	1000
Chloride(mg/L)	31.37	40.80	40.80	200	400
Sulphate(mg/L)	95.84	14.87	96.24	45	No relaxation
Nitrate(mg/L)	<0.5	<0.5	0.68	200	600
Total Hardness (Ca CO ₃)(mg/L)	203.94	188.25	376.51	75	200
Calcium(mg/L)	69.16	36.15	105.32	1	1.5
Fluoride(mg/L)	0.64	0.60	0.68	500	2000
Total Dissolve Solid(mg/L)	316	330	580	0.05	1.5
Copper(mg/L)	<0.03	<0.03	<0.03	0.1	0.3
Manganese(mg/L)	<0.04	<0.04	0.08	1.0	No relaxation
Iron(mg/L)	<0.1	<0.1	0.14	5	15
Zinc(mg/L)	<0.04	0.1	1.46	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	0.003	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.05	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.01	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.5	2.4
Boron(mg/L)	<0.2	<0.2	<0.2		

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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 CO ₃) (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/OCF	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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Sanuati

 cmpdi <i>A Mini Ratna Company</i>	AMBIENT AIR QUALITY DATA (NAAQS PARAMETER) Area: Hingula
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Project	Hingula OCP				
Monitoring Station	Time Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
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/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
29-Mar-2025	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-


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महानदी कोलफील्ड्स लिमिटेड के ५ मिलियन घन मीटर (कोल+ अधिभार) से अधिक उत्पादन क्षमतावाले १६ खुली खदानों की भूमि पुनरुद्धार हेतु २०२३ के उपग्रह डाटा के आधार पर निगरानी का वार्षिक प्रतिवेदन

Land Restoration / Reclamation Monitoring of 16 opencast coal mines of Mahanadi Coalfields Ltd. (MCL) producing more than 5 million cu.m. (Coal+OB) per annum based on satellite data of the Year 2023



Submitted to
Mahanadi Coalfields Limited



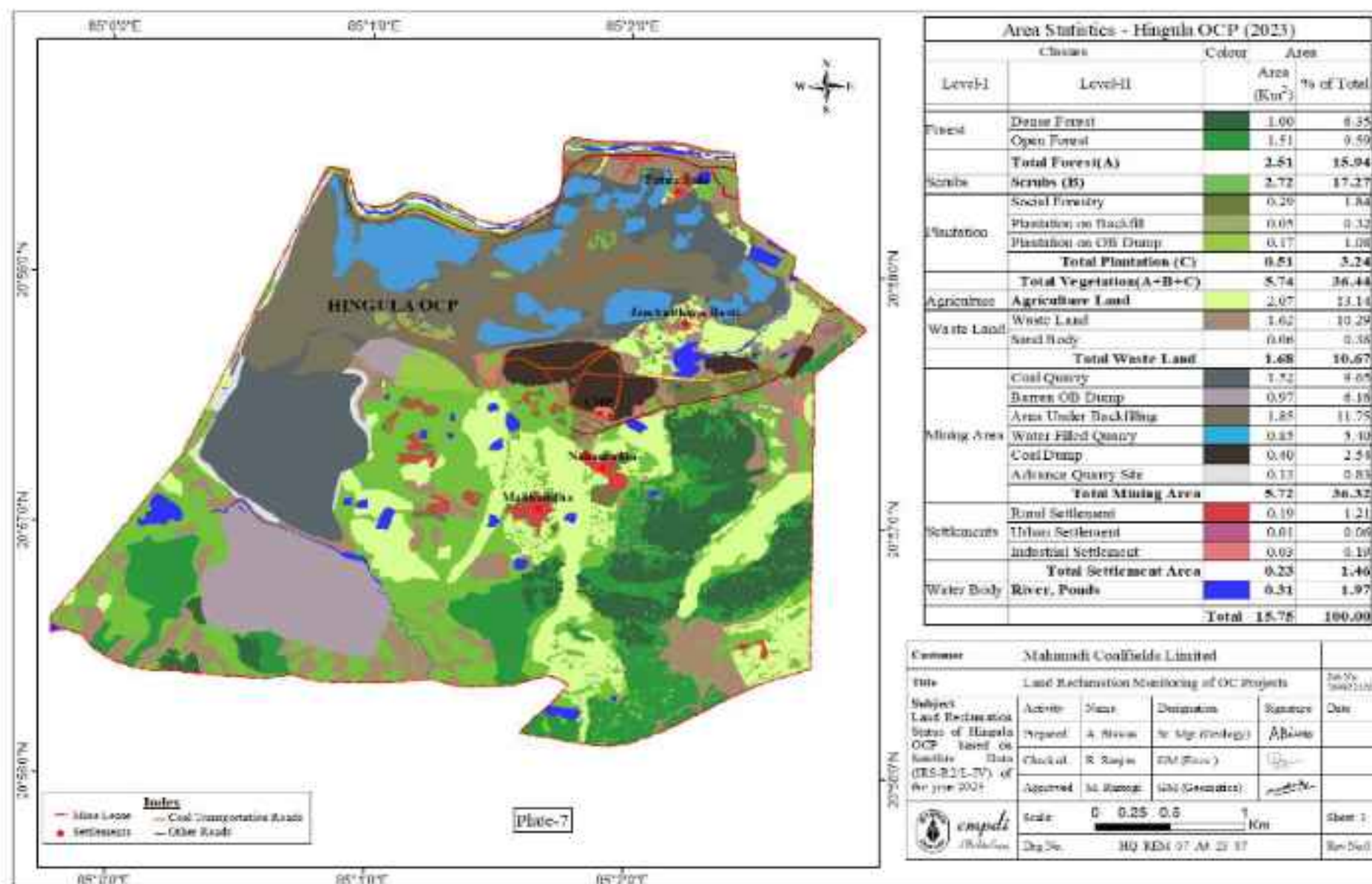
महानदी कोलफील्ड्स लिमिटेड के ५ मिलियन घन मीटर (कोल+ अधिभार) से अधिक उत्पादन क्षमतावाले १६ खुली खदानों की भूमि पुनरुद्धार हेतु २०२३ के उपग्रह डाटा के आधार पर निगरानी का वार्षिक प्रतिवेदन

Land Restoration / Reclamation monitoring of 16 opencast coal mines of Mahanadi Coalfields Ltd. (MCL) producing more than 5 million cu.m. (Coal+OB) per annum based on satellite data of the Year 2023

March 2024



**Remote Sensing Cell
Geomatics Division
CMPDI, Ranchi**





COAL INDIA LIMITED



CORPORATE ENVIRONMENT POLICY

2023

Back Ground:

Coal India 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 CIL 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:

Coal India Limited (CIL) 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:

CIL 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 CIL 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 CIL 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.

ORGANISATIONAL STRUCTURE OF ENVIRONMENTAL MANAGEMENT

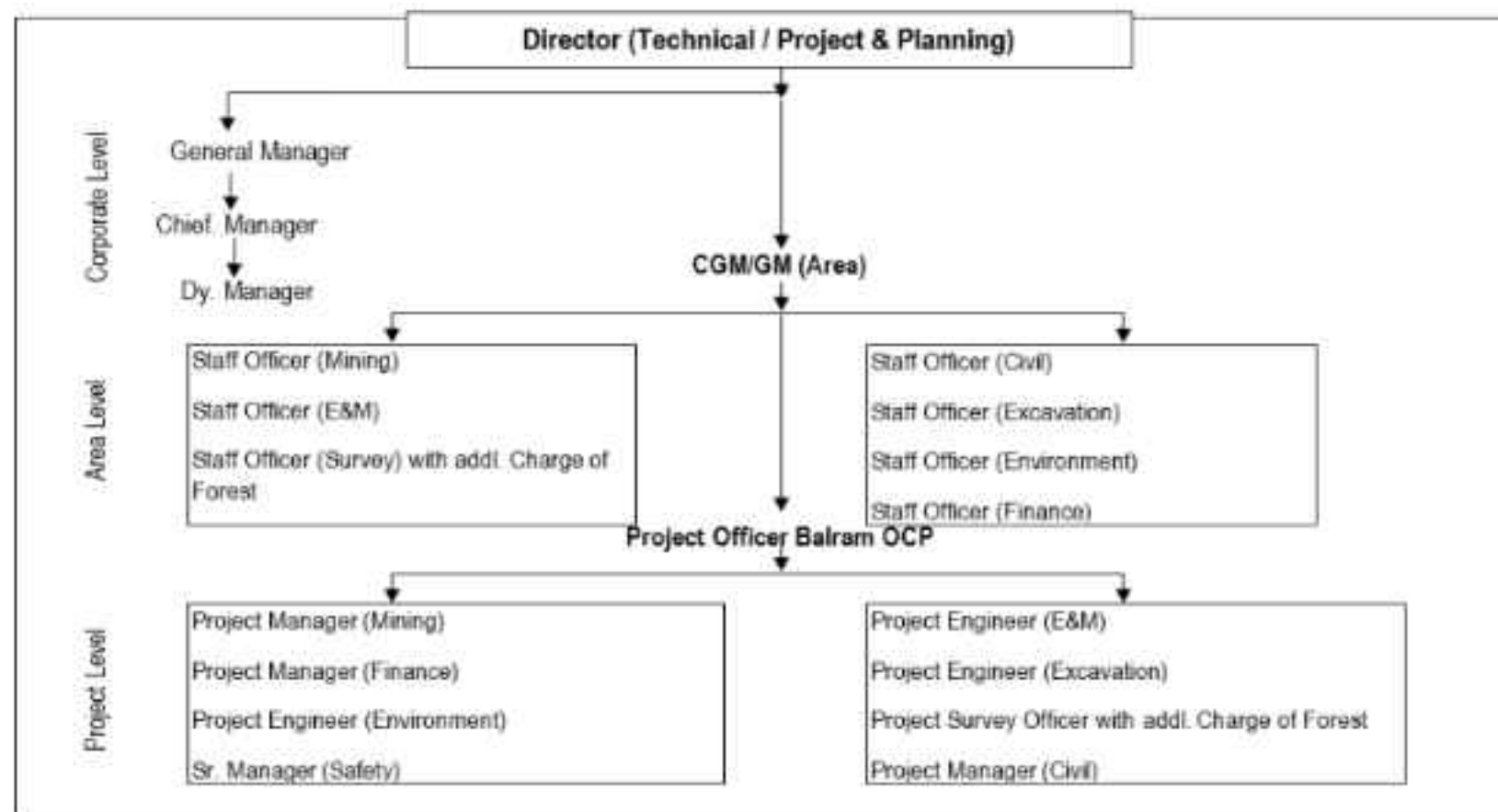
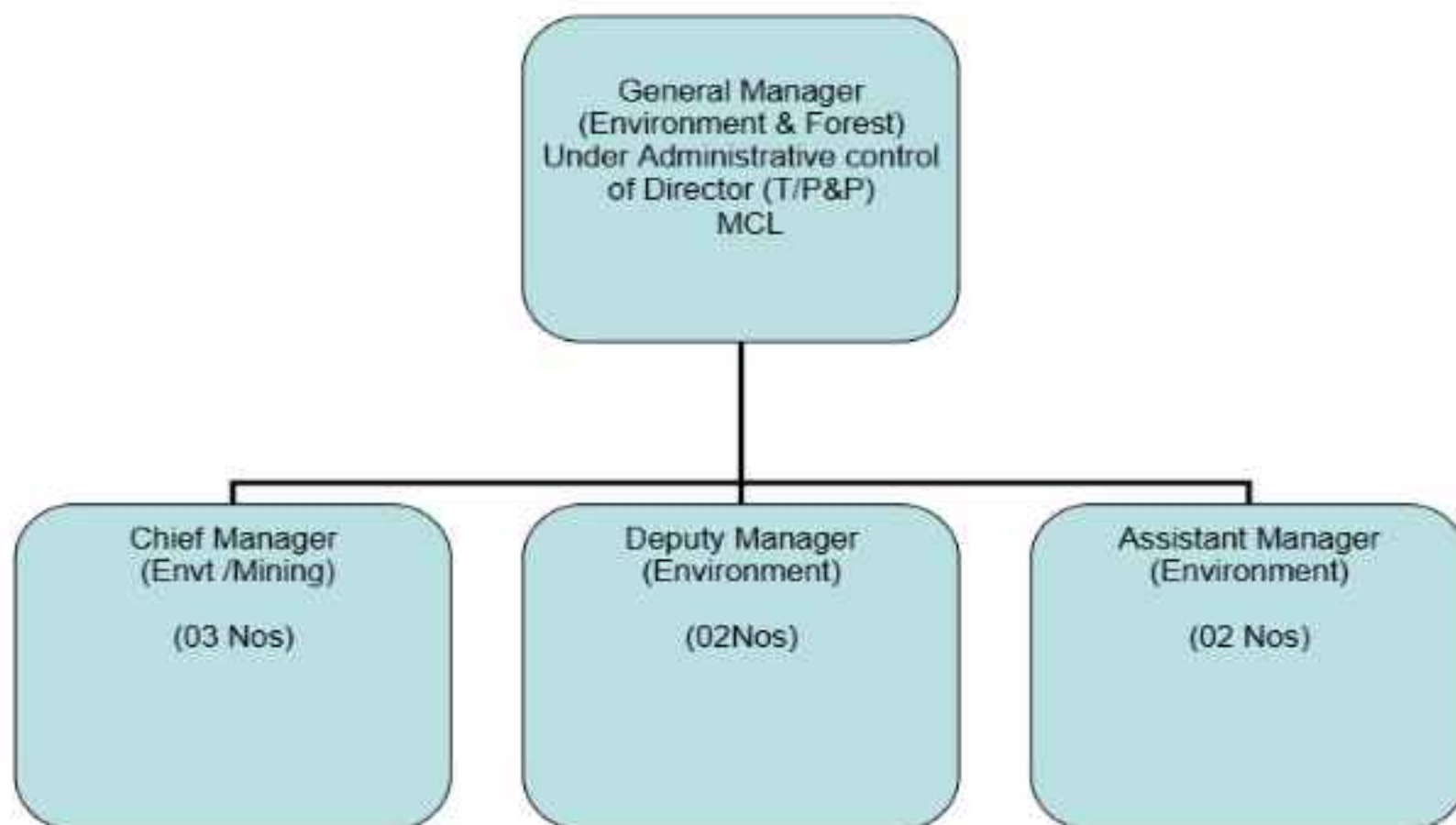


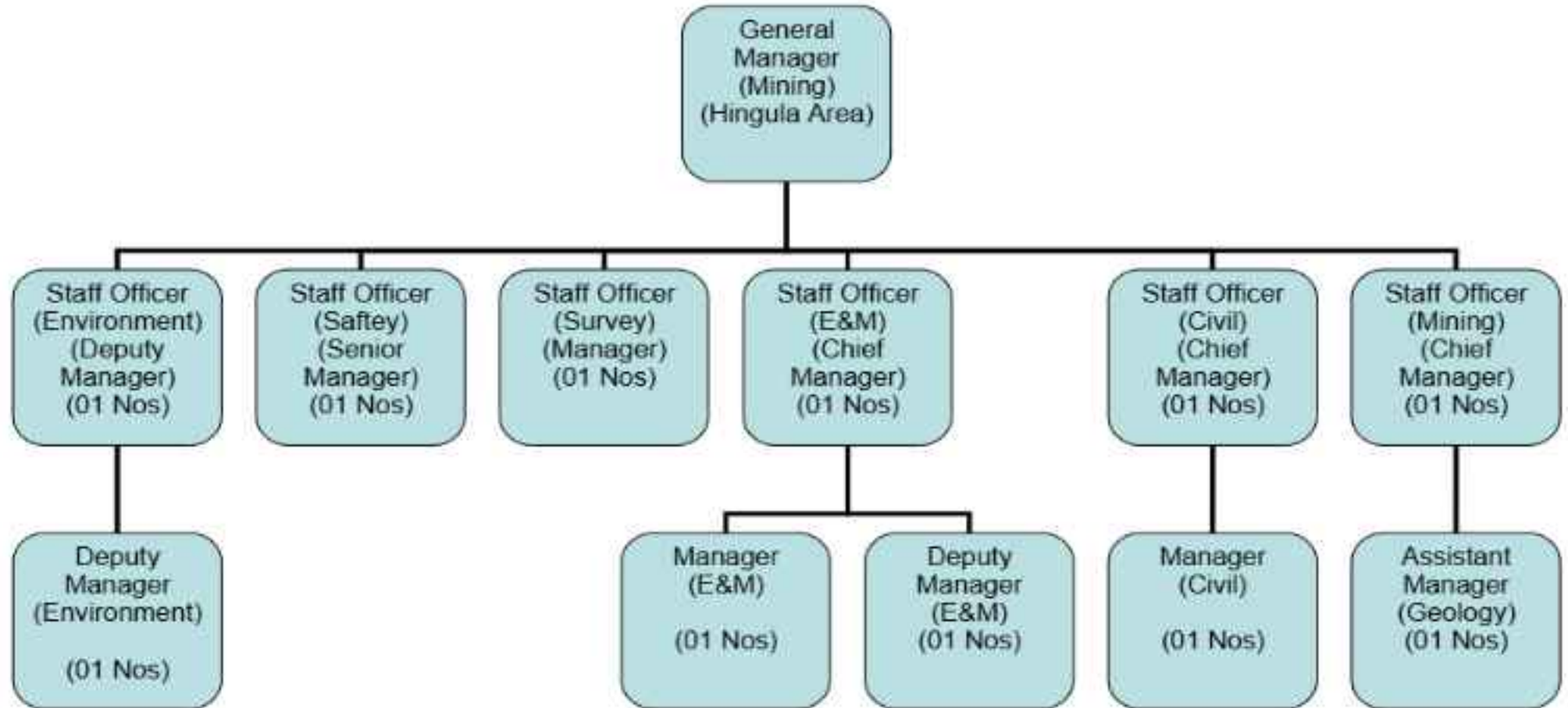
Figure no: 6.1- Organisational structure of environmental management

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

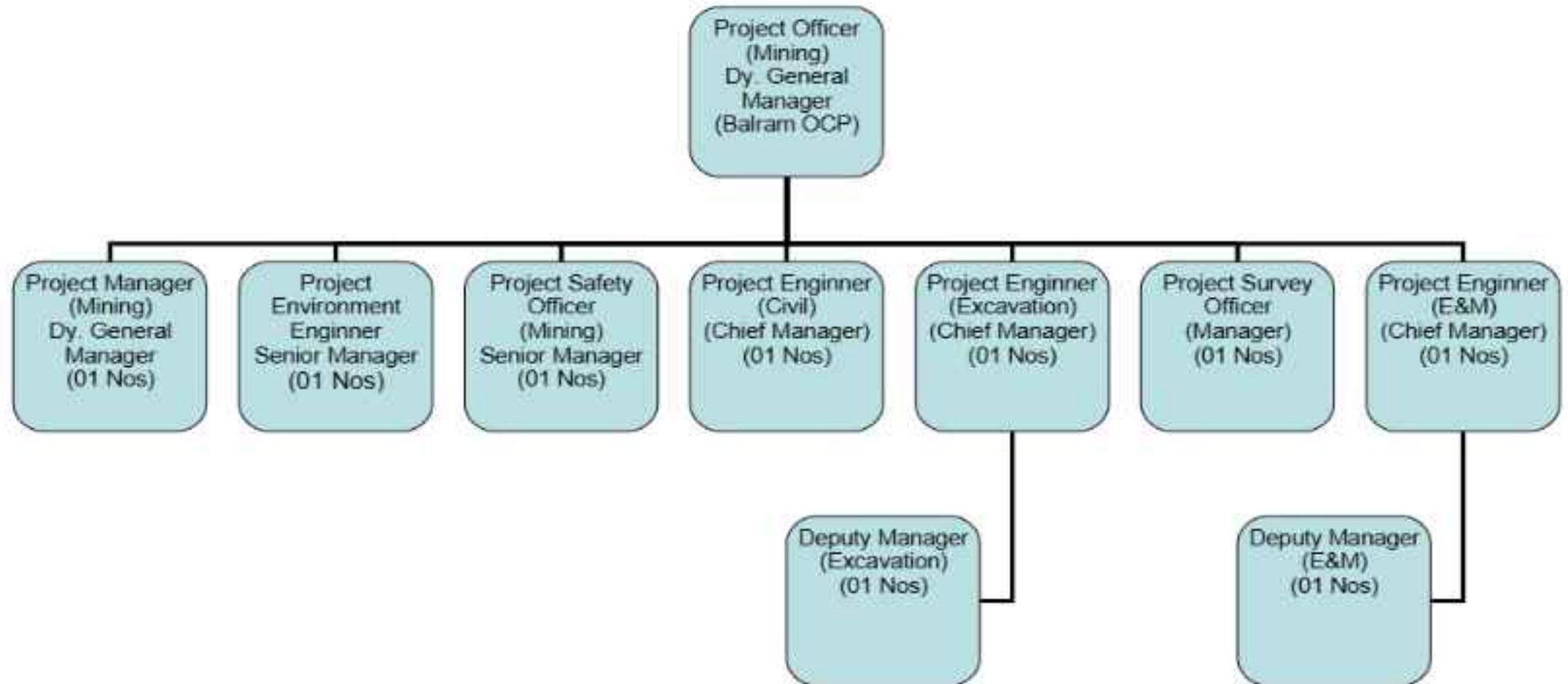
❖ CORPORATE LEVEL



❖ AREA LEVEL



❖ PROJECT LEVEL



ENVIRONMENTAL STATEMENT

(Form – V)

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

Hingula 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)
- Sri Padmanava Swain
Project Officer (Hingula OCP)
P.O –Gopal Prasad, Talcher
Dist: Angul, Odisha
Pin: 759103
- ii) Industry Category
- Primary (Coal Mining Operation)
- iii) Production Capacity (Coal production
During the year 2024-25)
- 15 MTPA (14.16 Million tonne)
- iv) Year of establishment
- 1998
- 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	1754
b	Dust Suppression at CHP	---
c	Dust Suppression at Siding & Coal Stock	1736
d	Fire Fighting	28
e	Workshop	50
f	Others	50
2.	Domestic	80
3.	Total in kℓ/ day	3698

Name of the Product	Water Consumption per unit of product (ℓ/ t)	
	2023-24	2024-25
Coal	98.48	95.29

(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)	1.04	0.96
Petrol (ℓ/ t)	NIL	NIL
Lubricants (ℓ/ t)	0.52	0.506
Electricity (Units/ t)	0.814	0.369
Explosives (kg/ t)	0.484	0.747

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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)					
	Not possible to quantify	Mine Effluent	OGT Outlet	STP Outlet	Within Prescribed Limit
TSS (mg/l)		31	38	NA	
BOD mg/l)			---		
COD (mg/l)		20	29.167		
pH		7.51	7.79		
O & G (mg/l)		<4.0	<4.0		
Air (Ambient air quality of one station – annual average): Time office					
SPM (µg/m³)	Not possible to quantify	243.00			Within Prescribed Limit
PM ₁₀ (µg/m³)		144.00			
PM _{2.5} (µg/m³)		61.00			
SO ₂ (µg/m³)		13.66			
NO _x (µg/m³)		29.19			

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	25690 ltr	26190 ltr
ii. Oil soaked filters	183 nos	168 nos
(b) From pollution control facilities:		
i. Oil/ Oil imulsion recovery from Oil & Grease Trap	890 lit (Oil)	960 lit (Oil)
ii. Oily sludge	44 T (Oily Sludge)	25 T (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)	18.26 Mm ³	30.27 Mm ³
(b) From pollution control facilities (STP & Sed-Pond Sludge)	-----	-----
(c) 1- Quantity recycled or re-utilized (OB back-filled)	18.26 Mm ³	30.27 Mm ³
2- Sold	-----	-----
3- Disposed	-----	-----

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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)	23590 ltr	By Auction to authorized parties
Oil soaked filters(kg) (from W/Shop)	168 nos	Disposed off in impervious lined pit
Oil & Grease (kg) (from ETP/ OGT)	960 lit (Oil)	By Auction to authorized parties
Oily Sludge (te.) (from ETP/ OGT)	25 T (Oily Sludge)	Disposed off in impervious lined pit
Oil imulsion	-----	---
Chemical Waste if any (kg)	-----	---
Battery (nos.)	57 (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)	14900 m ³	Spread over OB dump for reclamation
OB (m ³)	30.25 Mm ³	Used to fill the quarry voids
STP & Sed-Pond Sludge	-----	Used as manure

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

	Area (ha.)	OB Volume/ Nos. of Plants
1) External OB dump	80.00	32.82 Mm ³
2) Excavated land	431.81	137.78 Mm ³
3) Land affected (1+2)	511.81	-----
4) Backfilled (out of 2)	23.44	104.96 Mm ³
5) Land physically reclaimed (out of 3)	0.00	-----
6) Land biologically reclaimed (out of 3) *11.25 ha OB dumped in external OB dump and 8.87 ha OB dumped in internal dump during 2021-22	0.00	0

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-14 Inside the premises of Pirakhaman village Primary school MTP -15 Besides Sujan Pradhan's House in Chhotoberani Village near Nalla MTP-16 Backside of Hingula mandir VIP guesthouse

[Signature]

[Signature]

**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.5.47 per tonne of Coal.

Part – H

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

Head	Amount Rs. (approx)
Tree Plantation	20,00,000
Environmental Monitoring	2,50,00,000
Mobiles & fixed water sprinkler and other dust suppression measures	2,00,00,000
Road repairing	50,00,000
Catch/Garland drain	3,00,000
Maintenance of Continuous Ambient Air Quality Monitoring Station	3,00,000
ETP	50,00,000
Total	5,76,00,000

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.


Signature of the Project Officer.
 (With seal)
 **GM (Mining)/Project Officer**
Hingula OCP

