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

OFFICE OF THE PROJECT OFFICER (N&N)
NANDIRA COLLIERY
AT/PO: N.S.NAGAR, BHARATPUR, DIST: ANGUL (ODISHA), PIN:759148
E_mail: ndr.po2018@gmail.com
acotalmcl@gmail.com

Ref.No: PO(N&N)/NDR/EC Compliance/2025-26/ **Dt .06.2025**

To
The Addl. Chief Conservator of Forests,
Ministry of Environment Forest & Climate Change,
Eastern Zonal Office,
A-3, Chandrashekharpur,
Bhubaneswar-751023.

Sub:-Submission of Half Yearly Compliance Report of Environmental Clearance condition in respect of NANDIRA U/G Mine (0.33 MTY).

Dear Sir,

Please find enclosed herewith Half Yearly Compliance Report along with Form-I, II & III and abstract of the monitoring report of Ambient Air, Noise level & Water Effluent quality in respect of NANDIRA U/G Mine (0.33 MTY) for the period from OCTOBER'2024 to MARCH'2025.

This is for your kind information & necessary action.

Encl: AA

Yours faithfully,

27/06/2025

Project Officer (N&N)
Nandira Colliery

Copy for Kind information to:

1. The Director, E.I.A Monitoring Cell, MOEF, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-100003 (With Encl.)
2. The Member Secretary, State Pollution Control Board (Odisha), A/118, Nilakanthanagar, Unit-VIII, BBSR-751012 (With Encl.).
3. The Regional Officer, SPCB (Odisha), Regional Office, Industrial Estate, Angul. (With Encl.).

Copy to:

1. The General Manager, Talcher Area for kind information
2. The General Manager (Envt. & Forests), MCL HQ for kind information
3. The Area Environment Officer, Talcher Area
4. The Nodal Officer (Envt.), Nandira Colliery (with Encl.)
5. Office file.

HALF YEARLY PROGRESS REPORT OF COMPLIANCE WITH ENVIROMENTAL CLEARANCE CONDITIONS

(OCTOBER-2024 TO MARCH-2025)

NANDIRA U/G MINE (0.33 MTY)

MCL

MAHANADI COALFIELDS LIMITED
TALCHER AREA
AT/PO: N.S.NAGAR, BHARATPUR,
ANGUL, ODISHA
PIN-759148.

HALF-YEARLY REPORT OF COMPLIANCE WITH ENVIROMENTAL CLEARANCE CONDITIONS

(HALF-YEARLY FROM OCTOBER'2024 TO MARCH'2025

Name of the Project: Nandira Colliery. (0.33 Mty), MCL.
No. & date of MoEF clearance letter No: J-11015/866/2007-IA.II (M), dated 18th June 2007
Revalidated Vide No: J-11015/866/2007-IA.II(M), Dt: 15.11.2020
Amended Vide No: J-11015/866/2007-IA.II(M), Dt: 16.09.2021
Amended Vide No: J-11015/866/2007-IA.II(M), Dt: 02.05.2022
Amended Vide No: SIA/OR/CMIN/294782, Dt: 18.01.2023
Amended Vide No: SIA/OR/CMIN/299041/2023, Dt: 22.05.2023

A)	SPECIFIC CONDITIONS	COMPLIANCE STATUS
(i)	No depillaring operation shall be carried out below village and other surface structures.	No depillaring operation has been carried out below village and other surface structures.
(ii)	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to road.	Solid barriers have been left below the roads falling within the blocks to avoid any damage to the blocks.
(iii)	Regular monitoring of subsidence movement on the surface over and around working area and impact on natural drainage pattern, water bodies, vegetation, structure, road and surrounding should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoided loss life and material. Crack should be effectively plugged with ballast and clayey soil/suitable material.	Regular monitoring of subsidence movement on the surface over and around the depillared area is being done. No subsidence has been observed so far, no cracks have been observed anywhere.
(iv)	Garland /surface drain (size, gradient and length) around the safety area such as mine shaft outside the active subsidence area to divert the surface water from the ML and from low lying areas. Sump capacity should be designed keeping 50% safety margin over an above the pack sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity should also provide adequate retention period to allow proper setting of site material. Sufficient number of pumps of adequate capacity shall be deployed to pump out mine water during peak rainfall.	Garland drains are provided around the mine area. Adequate sump capacity has been established below ground keeping in view maximum rainfall & adequate retention time, sufficient number of pumps of adequate capacity have been installed below ground to pump out mine water during peak rainfall. And garland drain ending with settling pond has been provided around the coal stockyard at surface
(v)	While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.	No lower seam below a goaved out upper seam is being presently worked.
(vi)	Crusher at the CHP should operate with high efficiency bag filters. Water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage road, transfer point etc.	There is no crusher plant at the mine. Adequate water spraying through fixed water sprinklers and mobile water tanker is being done to prevent fugitive emission from conveyor system, transfer points, coal stockyard and CT road etc.

<table>
<tr><td>(vii)</td><td>Conveyor belt for transportation of coal from coal face to CHP shall be a closed unit.</td><td>Blasted coal is loaded from face by SDLs onto pony belts/gate belts and further transported to surface via series of gate and trunk belts. Conveyor belts at surface fully covered. Moreover, all the belt conveyors have arrangement for water sprinkling through mist nozzles over it at regular intervals.</td></tr>
<tr><td>(viii)</td><td>Drills should be wet operated.</td><td>All the drilling machines are equipped and operated with wet drilling system.</td></tr>
<tr><td>(ix)</td><td>A progressive afforestation plan shall be prepared and implemented for the undisturbed area and shall include area brought under green belt development, area along road, infrastructure ,over surface where mining is being done below, along ML boundary and township outside the lease area, etc. by planting native species in consultation with the local DFO/Agriculture department. The density of the tree should be around 2500 plants per ha.</td><td>Total lease area of the project is 370 Ha involving 325.38 Ha of forest land. Only 9.10 Ha has been disturbed at surface for mine opening & surface infrastructure. Rest of the area is undisturbed.
Block plantation of about 3832 plants have already been done over 2.908 Ha of land at Nandira Colliery premises, Near Coal Stockyard, Near Worker's Institute, Nandira U.P. school, Sisu Mandir Vidhyalaya etc. (wherever, surface rights vested with MCL) for increasing green cover.
Green belt has been developed by planting 1732 no. of plants along CT road & colony road for a length of 4.601 RKM respectively.

Adequate plantation has been done in the ML Area of the mine as per the advice of forest department. Last 3 years plantation details are given below:-
<table>
<tr><th>Year</th><th>No of Plants</th><th>Area (Ha)</th><th>Expenditure (in Lakhs)</th></tr>
<tr><td>2020-21</td><td>50</td><td>0.02</td><td>0.05</td></tr>
<tr><td>2021-22</td><td>650</td><td>1.20</td><td>2.50</td></tr>
<tr><td>2022-23</td><td>300</td><td>0.40</td><td>0.60</td></tr>
<tr><td>2023-24</td><td>490</td><td>0.40</td><td>0.50</td></tr>
<tr><td>2024-25</td><td>60</td><td>0.05</td><td>0.05</td></tr>
</table>
In addition to the above plantation works, fruit bearing plants are also being distributed to surrounding villagers as per their demand, during monsoon of every year at free of cost for raising green cover. Detail of such plant distribution to the specified surrounding villages in last 03 years is given below:-
<table>
<tr><th rowspan="2">Name of the village</th><th colspan="5">No. of plants distributed</th></tr>
<tr><th>2020-21</th><th>2021-22</th><th>2022-23</th><th>2023-24</th><th>2024-25</th></tr>
<tr><td>Karnapur</td><td rowspan="2">-</td><td></td><td>-</td><td>-</td><td>550</td></tr>
<tr><td>Sanjorada</td><td></td><td>-</td><td>-</td><td>628</td></tr>
<tr><td>Badajorada</td><td>1215</td><td>245</td><td>546</td><td>2470</td><td></td></tr>
<tr><td>Sansingda</td><td rowspan="3">-</td><td rowspan="2">212</td><td>56</td><td>-</td><td>420</td></tr>
<tr><td>Badasingda</td><td>124</td><td>-</td><td></td></tr>
<tr><td>Natedi</td><td>124</td><td>-</td><td>-</td><td>576</td></tr>
<tr><td>Danara</td><td>1935</td><td>564</td><td>-</td><td>120</td><td>1247</td></tr>
<tr><td>Jambubahali</td><td>1521</td><td>-</td><td>212</td><td>112</td><td>3421</td></tr>
</table>
</td></tr>
</table>

<table>
<tr>
<td>(x)</td>
<td>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells construction of new piezometers.
The monitoring for quantity should be done four times a year in pre-monsoon (may), monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Date thus collected should be submitted to the ministry of Environment & forest and to the central pollution control board quarterly within one month of monitoring.</td>
<td>The ground water level and quality is being monitored through a network of existing wells and piezometers established in Talcher Coalfields. The water quantity monitored in a piezometer established under the jurisdiction of Nandira Colliery and a village well is given below:-
<table>
<tr><th>Date</th><th>Location</th><th>Water Depth from Ground Level(in m)</th></tr>
<tr><td>06.11.2024</td><td>Natedi Village well</td><td>5.4</td></tr>
<tr><td>23.01.2025</td><td>Natedi village well</td><td>5.5</td></tr>
</table>
<table>
<tr><th>Date</th><th>Location</th><th>Water Depth from Ground Level (in m)</th></tr>
<tr><td>18.11.2024</td><td>Piezometer no. MTP 10</td><td>10.00</td></tr>
<tr><td>18.11.2024</td><td>Piezometer no. MTP 11</td><td>8.05</td></tr>
<tr><td>06.01.2025</td><td>Piezometer no. MTP 10</td><td>12.00</td></tr>
<tr><td>06.01.2025</td><td>Piezometer no. MTP 11</td><td>7.00</td></tr>
</table>
Data thus collected is being submitted to MoEF&CC & CPCB at regular intervals and also made available at MCL website.</td>
</tr>
<tr>
<td>(xi)</td>
<td>The company shall put up artificial ground water recharge measures for augmentation of ground water resource if monitoring of water table indicates declining trend. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.</td>
<td>Ground water & surface water level are being monitored at regular intervals. The water table is found to be normal and there is no declining trend observed. Moreover, 02 no. of roof top rainwater harvesting structures have been developed at Nandira Dispensary and Worker's institute during 2020-21. Moreover, water is being supplied through pipeline, water tankers etc. to nearby villages for their domestic purposes as per their demand. The details of water supplied through tankers during last 3/4 year details are as follows:
<table>
<tr><th>Year</th><th>No. of villages</th><th>Quantity (KL)</th><th>Expenditure (In Rupees)</th></tr>
<tr><td>2018-19</td><td>13</td><td>38392</td><td>50,69,300</td></tr>
<tr><td>2019-20</td><td>13</td><td>38400</td><td>51,00,000</td></tr>
<tr><td>2020-21</td><td>13</td><td>38400</td><td>55,00,000</td></tr>
<tr><td>2021-22</td><td>13</td><td>38400</td><td>52,12,000</td></tr>
<tr><td>2022-23</td><td>13</td><td>38400</td><td>54,00,000</td></tr>
<tr><td>2023-24</td><td>13</td><td>38400</td><td>54,00,000</td></tr>
<tr><td>2024-25</td><td>13</td><td>38400</td><td>52,00,000</td></tr>
</table>
</td>
</tr>
<tr>
<td>(xii)</td>
<td>The company shall obtain prior approval of CGWA/CGWB Regional office for use of ground water if any, for mining operation.</td>
<td>NoC has been obtained from Central Ground Water Authority vide No. CGWA/NOC/MIN/ REN/1/2024/10044, Dt: 15.10.2024 with validity upto: 15.12.2024. Application for renewal of NoC is also submitted on dtd: 16.12.2024 in BhuNeer App which is under consideration for grant of renewal NOC at CGWA, New Delhi.</td>
</tr>
<tr>
<td>(xiii)</td>
<td>Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP waste water.</td>
<td>Septic tank soak pit arrangement is available at each and every quarter. The domestic effluent is being discharged to soak pit through septic tank.
A STP (MBBR based) with the capacity of 0.5 MLD has been constructed & commissioned in the Nandira Colony and sewage of most of the quarters in the colony has been connected with STP and the treated water is being reused for plantation.
No effluent generated from workshop, as there is no vehicle washing takes place. No CHP involved</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>in the mine, hence ETP is not needed, as there is no waste water generated at the mine.</td></tr>
<tr><td>(xiv)</td><td>Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged active mining operations shall be subjected to health checkup for occupational diseases and nearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.</td><td>Occupational health surveillance programme of the workers are being made regularly. Moreover, Nandira dispensary, Regional Hospital, Dera and Central Hospital are also available for the purpose of health check up of employees. Health check up of employees engaged in active mining activities has also been carried out by an outside agency. Details of IME & PME status is as follows:-
<table>
<tr><th>Year</th><th>Man Power</th><th>Target PME</th><th>PME Done</th></tr>
<tr><td>2019-20</td><td>1194</td><td>358</td><td>187</td></tr>
<tr><td>2020-21</td><td>1785</td><td>500</td><td>483</td></tr>
<tr><td>2021-22</td><td>1752</td><td>529</td><td>564</td></tr>
<tr><td>2022-23</td><td>1591</td><td>460</td><td>467</td></tr>
<tr><td>2023-24</td><td>1550</td><td>455</td><td>458</td></tr>
<tr><td>2024-25</td><td>1480</td><td>443</td><td>452</td></tr>
</table></td></tr>
<tr><td>(xv)</td><td>Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land used pattern and report submitted to a MOEF and its Regional office at Bhopal.</td><td>Digital processing of the entire lease area using remote sensing technique is being done regularly once in 3 years for monitoring the land use pattern. It was carried out recently in the year 2022 and prior to that it was done in the year 2019 and reports submitted to MoEF
And the details are given below:
Total Leasehold area = 370 Ha
Area under agriculture = 15.78 Ha
Area under water body = 0.43
Waste land = Nil
Forest land = 325.38 Ha
Area under habitation = Nil
Other Govt. land = 28.41 Ha</td></tr>
<tr><td>(xvi)</td><td>A final Mine closure plan along with details of corpus fund should be submitted to the Ministry of Environment & forest 5 years in advance of final mine closure for approval.</td><td>A mine closure plan with details of corpus fund already submitted to MoEF. Accordingly a progressive mine closure report for the 1st phase period from 2011-12 to 2015-16 has been submitted at CCO and got 50% reimbursement of deposited amount as per the latest guidelines. Report for 2nd phase i.e. 2016-17 to 2020-21 has been prepared and recommended to CCO, New Delhi for reimbursement upto 50%.</td></tr>
</table>

ADDITIONAL CONDITIONS PROVIDED IN THE REVALIDATED EC & AMENDED THEREBY

4)	ADDITIONAL SPECIFIC CONDITIONS	COMPLIANCE STATUS
(i)	**Revalidated EC:** Construction of Sewage Treatment Plant (latest technology SBR/MBBR/MBR) should be completed by July 2021 and treated water shall be reused for plantation. As documentary proof, STP photograph after its commission to be submitted to RO, MoEF&CC with copies of its CTE and CTO.	A STP (MBBR based) with the capacity of 0.5 MLD has been constructed & commissioned in the Nandira Colony and sewage of most of the quarters in the colony has been connected with STP and the treated water is being reused for plantation. As documentary proof, STP photograph after its commission had been submitted to RO, MoEF&CC with copies of its CTE and CTO.
(ii)	SPCB shall ensure no CTO shall be granted to project on fulfillment of condition no.1 **Amended EC:** Time extension provided upto Sept'2023 to comply the condition no.4(ii)	After compliance of Condition 4(i), CTO renewal had been obtained from SPCB, Odisha for the period upto 31.03.2025 in accordance to our earlier application. Further, application has been submitted at SPCB for renewal of CTO for next FYs i.e. upto 31.03.2028
(iii)	No untreated wastewater or treated water shall be discharged to any water bodies including river. All efforts to be made to reuse the water.	The treated water is being reused at plantation site near STP.
(iv)	PP shall obtain No Objection Certificate from Central Ground Water Authority within six months and submit it Ministry's Regional Office.	NoC has been obtained from Central Ground Water Authority vide No. CGWA/NOC/MIN/ REN/1/2024/10044, Dt: 15.10.2024 with validity upto: 15.12.2024. Application for renewal of NoC is also submitted on dtd: 16.12.2024 in BhuNeer App which is under consideration for grant of renewal NOC at CGWA, New Delhi.
(v)	As proposed additional fixed type water sprinklers all around the coal stockyard/at the extension portion of firefighting system should be completed by March 2021 as the work of extension of pipeline for firefighting is in progress.	05 no. of additional Fixed type water sprinklers have been provided at the extension portion of firefighting system.
(vi)	PP shall complete the work of blacktopping of existing WBM road (for a length of 460m) used for coal transportation by May 2021.	The work of conversion of existing CT road from WBM to blacktopping of existing WBM for a length of 460m has been completed.
(vii)	Green belt shall be enhanced up to 33% beyond the proposal plan of five years submitted by PP vide its letter dated 2nd October, 2020	Plantation (Green belt) is being done as per the condition. 2021-22: 650 nos. over 1.20 Ha 2022-23: 300 nos. over 0.4 Ha 2023-24: 350 nos. over 0.4 Ha 2024-25: 60 nos. over 0.015 Ha
(viii)	Compliance report of above EC conditions shall be submitted to RO, MoEF&CC under intimation to MoEF&CC, Delhi.	It is hereby submitted

<table>
<tr><th>B.</th><th>GENERAL CONDITIONS</th><th>COMPLIANCE STATUS</th></tr>
<tr><td>(i)</td><td>No change of mining technology and scope of working should be made without prior approval of the Ministry of Environment and forests.</td><td>There has been no change in mining technology and scope of working so far.</td></tr>
<tr><td>(ii)</td><td>No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.</td><td>There has been no change in calendar plan of extraction quantum of coal. EC capacity of the mine is 0.33 Million tonne. Details of coal production during the recent years ae given below:-
<table>
<tr><th>Year</th><th>Production year wise (Met.te)</th></tr>
<tr><td>2018-19</td><td>1,07,000</td></tr>
<tr><td>2019-20</td><td>85,000</td></tr>
<tr><td>2020-21</td><td>75,832</td></tr>
<tr><td>2021-22</td><td>60,160</td></tr>
<tr><td>2022-23</td><td>60,830</td></tr>
<tr><td>2023-24</td><td>56,012</td></tr>
<tr><td>2024-25</td><td>54005</td></tr>
</table></td></tr>
<tr><td>(iii)</td><td>Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM ,RSPM, Sox and Nox monitoring, location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consolation with the State Pollution Control Board.</td><td>Ambient air quality monitoring station has been established in consultation with state pollution control board. The data on AAQ parameters are provided in Annexure - I & average values are given below:-
1) Table-1: Compliance Stations:
<table>
<tr><th>Location</th><th>Parameters</th><th>SPM</th><th>PM10</th><th>PM2.5</th><th>SO2</th><th>NOx</th></tr>
<tr><td>Project Office</td><td>Avg.</td><td>240.50</td><td>130.67</td><td>59.50</td><td>13.74</td><td>25.70</td></tr>
<tr><td>Substation</td><td>Avg.</td><td>257.17</td><td>152</td><td>65.58</td><td>15.91</td><td>29.27</td></tr>
</table>
2) Table-2: NAAQs Stations:-
<table>
<tr><th>Location</th><th>Parameters</th><th>SPM</th><th>PM10</th><th>PM2.5</th><th>So2</th><th>NOx</th></tr>
<tr><td>Natedi Village</td><td>Avg.</td><td>196.59</td><td>81.18</td><td>43.94</td><td>15.69</td><td>27.47</td></tr>
<tr><td>Nandira Colony</td><td>Avg.</td><td>198.54</td><td>81.80</td><td>44.54</td><td>15.68</td><td>27.57</td></tr>
</table></td></tr>
<tr><td>(iv)</td><td>Data on ambient air quality (SPM, RSPM, SO2 and Nox) should be regularly submitted to the Ministry including its regional office at Bhubaneswar and to the state pollution control Board and the Central pollution control Board once in six months.</td><td>Data of ambient air quality is being submitted (half yearly) to MoEF&CC, SPCB/CPCB.</td></tr>
<tr><td>(v)</td><td>Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly, water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.</td><td>Fugitive dust emissions from coal bunker to loading points are controlled by regular water spraying through fixed water sprinklers. Water spraying is being done regularly along the haul road/coal transportation roads through a mobile water tanker.</td></tr>
<tr><td>(vi)</td><td>Adequate measures should 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 should be provided with ear plugs/muffs.</td><td>Since it is an UG mine and the quantity of coal produced is also very less, no major HEMMs are operated at underground. Only activities like drilling, blasting (controlled), Side Discharge Loaders (SDLs) operation, conveyor belt movement are involved in the mining practices at underground. At surface, only a pay loader (for loading coal into trucks) and trucks are in operation. SDLs and Payloader are equipped with sound proof cabin. Moreover, all the workers engaged in blasting, drilling, SDLs, payloader operations etc. are provided with ear plugs/muffs.
The average value of Noise level measured at two</td></tr>
</table>

<table>
<tr><td></td><td></td><td>locations is given below:
<table><tr><th colspan="3">Noise Measurement in dBA</th></tr><tr><th>Location</th><th>DAY</th><th>NIGIIT</th></tr><tr><td>Project Office</td><td>68.54</td><td>52.50</td></tr><tr><td>Substation</td><td>70.22</td><td>51.55</td></tr></table></td></tr>
<tr><td>(vii)</td><td>Industrial wastewater (workshop and wastewater from the mine) should be properly collected treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge, oil and grease trap should be install before discharge of workshop effluents.</td><td>Mine discharge water is being collected in sedimentation ponds and treated suitably before being allowed to discharge on ground. No waste water discharged from workshop. Mine discharge water quality report is given below with average values:
<table><tr><th>Location</th><th>Para meters</th><th>pH</th><th>O&G</th><th>TSS</th><th>COD</th></tr><tr><td>Mine Discharge water</td><td>Avg.</td><td>7.37</td><td><4.0</td><td>32.08</td><td>25.33</td></tr></table></td></tr>
<tr><td>(viii)</td><td>Vehicular emissions should be kept under control and regularly monitored; vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.</td><td>Vehicles used for transporting the mineral are being covered with tarpaulins and optimally loaded. And it is being verified regularly that all the vehicles used for transportation possess pollution under control certificate.</td></tr>
<tr><td>(ix)</td><td>Environment laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board.</td><td>Environmental monitoring works is being done through CMPDIL having adequate laboratory facilities as required by state pollution Control Board.</td></tr>
<tr><td>(x)</td><td>Personal working industry areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
Occupational health surveillance of the workers should be undertaken periodically to any contractions due to exposure to dust and to take correct measure, if needed</td><td>Persons working in dusty areas are provided with dust masks and educated on health aspects, periodically occupational health checkup of all workers is carried out once in every five years regularly. Details of Periodical Medical Examination during last 06 years are as follows:
<table><tr><th>Year</th><th>Man Power</th><th>Target PME</th><th>PME Done</th></tr><tr><td>2019-20</td><td>1194</td><td>358</td><td>187</td></tr><tr><td>2020-21</td><td>1785</td><td>500</td><td>483</td></tr><tr><td>2021-22</td><td>1752</td><td>529</td><td>564</td></tr><tr><td>2022-23</td><td>1591</td><td>460</td><td>467</td></tr><tr><td>2023-24</td><td>1550</td><td>455</td><td>458</td></tr><tr><td>2024-25</td><td>1480</td><td>443</td><td>452</td></tr></table></td></tr>
<tr><td>(xi)</td><td>A separate environment management cell with suitable qualified personal should be set under the control of a senior Executive, who will report directly to the head of the company.</td><td>A separate environment management cell with qualified personnel is under the control of Senior at Area HQ level and who will directly report to the Head of the Company.</td></tr>
<tr><td>(xii)</td><td>The funds earmarked for environment protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be report to this ministry and it's Regional Office at Bhubaneshwar.</td><td>Funds measures are kept in a separate account head of "Environment". Year-wise expenditure is reported to MOEF, Sate Pollution Control Board by Company HQ. The expenditure in recent years is given below:-
<table><tr><th>Year</th><th>Expenditure for Environment Protection</th></tr><tr><td>2018-19</td><td>26.28 Lakhs</td></tr><tr><td>2019-20</td><td>42.00 Lakhs</td></tr><tr><td>2020-21</td><td>93.44 Lakhs</td></tr><tr><td>2021-22</td><td>90.244 Lakhs</td></tr><tr><td>2022-23</td><td>217.92 Lakhs</td></tr><tr><td>2023-24</td><td>210.03 Lakhs`</td></tr><tr><td>2024-25</td><td>202.60 Lakhs</td></tr></table></td></tr>
<tr><td>(xiii)</td><td>A copy of the environment clearance letter will be market to concerned panchayat/local NGO, if any, from whom any suggestion /representation has</td><td>A copy of environmental clearance had given to local Panchayat.</td></tr>
</table>

	been received while processing the proposal.	
(xiv)	State pollution control board should display a copy of the clearance letter at the Regional Office, District industry center and collector's Office/Tehsildar's Office for 30 days.	A copy of EC had displayed by SPCB and at the regional office, district industry center and collector's office.
(xv).	The Project authorities should 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 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 & Forests at http://envfor.nic.in.	Grant of EC was published in two Odia Newspapers viz. 1) Sambad, 2) Dharitri, Angul on 24.07.2008. Grant of Revalidated EC was published in following Newspapers viz. 1) PBD, 2) Sambad, Angul on 15.12.2020. It is also available in the MoEFCC website http://envfor.nic.in

27/07/2021

Project Officer (N&N)
Nandira Colliery

FORM-I

MINISTRY OF ENVIRONMENT & FOREST
REGIONAL OFFICE
MONITORING PROFOMA PART-1(DATA SHEET)

1. Project Type: River-Valley/Mining Industry/Thermal/Nuclear/Other (Specify)	: Mining Industry (COAL)
2. Name of the Project	: NANDIRA U/G Mine (0.33 MTY)
3. Clearance Letter(s) OM no. & Date	: No.J-11015/866/2007-IA.II (M) dt.18.06.2007
4. Location	
(a)District(s), Sate(s)	: Angul, Orissa
5. a)Address of concerned project Chief Engineer (with pin code	: Sri.Aftab Alam Ansari, Project Officer (N&N), Nandira Colliery, Po: N.S.Nagar, Bharatpur, Dist-Angul, Orissa, Pin-759148, Tel.No.06760-260209
b) Address of Executive project Engineer/Manager (with pin code and telephone/telex/Fax nos.	: -do-
6. Salient Feature:	
a. S.F of the project	: Start of mine - Feb'1962. Mine lease area 370 Ha, Mineable reserve 19.8 Mt, Extractable reserve - 11.226Mt (As per Appr. Mining plan 2011). The Grade of coal is 'C' Mining Technology is Board & Pillar with SDLs. Targeted output- 0.33 Mty of augmented project Life of mine is 30 years (As per Mining plan May'2011)
b. S.F of the environmental Management plans.	: Panels where Top & Bottom seams are worked Should be extracted with stowing to prevent damage to reserve forest while other panels can be worked out as the subsidence limit is 20mm/m
7. Breakup of the project area	
a. Submergence area (Forest and Non-Forest)	: Forest – 325.38 Ha. Non-Forest – 44.62 Ha (Govt. and tenancy)
b. Others	: Residential Colony – 33.91 Ha.
8. Break up of project affected population With enumeration of those losing House/dwelling units only, agricultural Land only, both dwelling unit and Agricultural land and land less laborers/ artisans.	: NA
a. SC, ST/Adivasis	: NA
b. Others	: NA
9. Financial Details:	
a) Project cost as originally planned and Subsequently estimates and the year of price reference.	: P.R- 1962. Project cost: 14.64 lakhs F.R.Nov.1973; Project cost: 724.35 lakhs May 1986; Project cost: 204.12 lakhs PR Aug.1991; Project cost: 17.96 lakhs
b) Allocation made for environmental	: ECO development cost

Management plans, with item-wise year wise break-up.

: 131.06 lakh
- Anti pollution measurement Cost: 38.55 lakhs
- Cost of strengthening of existing
- Forest land on surface: 20.77 lakhs

c) Benefit cost ratio/internal rate of return & the year of assessment. : Cost Rs. /te. Profit/Loss Rs. /te.

d) Whether 9 c) includes the cost of Environment management plans so far. : NA

e) Actual expenditure incurred on the project : 5940.05 lakhs

f) Actual expenditure incurred on the Envt. Mgmt plans, so far. : 210.03 Lakhs (2023-24)

10. Forest land requirements.

a) The status of approval of a diversion of forest land non-forestry use. : The diversion of 325.38 Ha. of Forest Land has been granted for U/G mining.

b) The status clear felling. :-NA-

c) Comments on the viability and Sustainability programme in the light of actual fields experience so far. : No

11 .Status of construction:

a) Date of commencement (Actual and /or planned) : Feb'1962

b) Date of Completion (Actual and /or planned) : Aug'1991

12. Reason for the delay if the project is yet to start: NA

13. Date of site visit

a) The date on which the project was monitored by the regional office , if any. : 27.02.2025

b) Date of visit for this monitoring report. : 27.02.2025

14. Details of correspondence with project authority: For obtaining action, information and status of compliance to safe guard.

27/06/2025

Project Officer (N&N)
Nandira Colliery

FORM-II

PROFORMA FOR PROVIDING INFPRMATION ON REHABILITATION

1. No. of village affected : Nil (Rehabilitation Plan not applicable)

2. Families affected : SC ST OTH. Total

3. Compensation package offered per family :

State/Centre norms	Project Package
As per state Govt. Package	

4. Budget estimate for rehabilitation. : NA

   a) Total Outlay. : NA
   b) Amount paid /used. : NA

5. Employment details
   a) Total employment to be provided : NA
   b) Employment given so far. :

6. Rehabilitation & Resettlement details. : NA

   a) Nos. of families rehabilitated : NA
      i. Name of the site : NA
   iv. Families rehabilitated. : NA SC ST OTH. TOTAL

   b) Families yet to be rehabilitated : NA
      i. Name of site. : NA
   ii. No. of families : NA SC ST OTH. TOTAL

Any other information. : -

27/06/2025

Project Officer (N&N)
Nandira Colliery

FORM-III

FORMATE FOR PROVIDING PARTICULARS ON GREEN BELT/PLANTATION UNDER F©ACT 1980 AND E (P) ACT 1986

1. a. Name of Organization : MAHANADI COALFIELDS LTD.
   b. Envt clearance order No. : No.J-11015/866/2007-IA.II(M) Dtd.18.06.2007 Revalidated on Dt:15.11.2020 & amended on Dt:16.09.2021 02.05.2022, 18.01.2023 & 22.05.2023
   c. Forest clearance order No. : F.No.8-74/2004/FC, dt.16.6.2009
2. Location,Block/Sub Division/ District./State. : Village-Badajorada : Block – Talcher, Sub. Dvn, Talcher, Dist:Angul State-Orissa
3. Address for communication : Project Officer, Nandira Colliery, MCL P.O: N.S.Nagar (Bharatpur), Dist:Angul (Orissa), Pin-759148
4. Existing vegetation in the area/region :
   a. Species (Trees/shrub/Grasses/climbers.) : Trees, Shrubs, Grasses & climbers
   b. major prevalent species of each type :
5. Land coverage by the project
   a. Total Area under the project : 370 Ha + 403.91 Ha (infrastructure)
   b. Area covered for basic infrastructure (road, building/factory etc.) : 33.91 Ha.
6. Details about natural vegetation
   a. Name and number of tree/species felled : Nil
   b. Name and number of plants species still available in the area. : 3850 Nos
   c. By protecting the area will indigenous :
   d. Extent of green belt developed. : 2.65 Ha.
7. Plantation required to be carried out as per.
   a. Condition of Environment : As per specific condition No.ix.
   (Clearance in Ha/No.s plants/Ha) : 2500 Nos. of plants/Ha
   b. A condition of forest © Act : 1600 Nos.of plants/Ha
   Forest clearance in Ha/No.
   c. Voluntarily in Ha. /Nos. : 2500 Nos./Ha.
8. Details about plantation.
   a) Total area available for plantation in 2024-25 in each category.

Green belt	Ext dump	B/F Area.	Road sides	Block plantations.
350	Nil	Nil	Nil	0.15 Ha

   b) Plantation details (Category wise & methodology used)

Year of plantation	Species planted	Spacing	Height attained	Total area covered during 2024-25	Proposed plantation programme in 2025-26
1993 to 2025	Given in Annex-A	2m x 2m	5 to 8 m	2.908	300

   c) Survival % of plantation (for last five years) : 80 % - 85 % after 3/5 years of plantation.

9. Agency carrying out plantation and maintenance: OFDC/ CGVVRNL/ Departmental/Contractual etc.
10. Financial Details. (Year wise and item wise):

A) Plantation:

Sl No	Year	Fund allocated (In Lakh Rs. For 3/5 years.	Expenditure made in lakh Rs. For 3/5 years	No. of plants Planted	Average cost each surviving plants in Rs. (plantation scheme valid for 3/5 years)
1.	1990-91	1.64 lakhs	1.64 lakhs	12000	17.08 for 9600 plants
2.	1991-92	1.77 lakhs	1.77 lakhs	12500	17.7 for 10000 plants
3.	1992-93	2.0 lakhs	2.0 lakhs	15000	16.67 for 12000 plants
4,	1993-94	1.6 lakhs	1.6 lakhs	13000	15.38 for 10400 plants
5.	1994-95	3.75 lakhs	3.75 lakhs	29000	16.16 for 23200 plants
6.	1995-96	6.55 lakhs	6.55 lakhs	20500	39.93 for 16400 plants
7.	1996-97	Nil	Nil	Nil	Nil
8.	1997-98	Nil	Nil	Nil	Nil
9.	1998-99	Nil	Nil	Nil	Nil
10.	1999-2000	Nil	Nil	Nil	Nil
11.	2000-01	Nil	Nil	Nil	Nil
12.	2002-03	Nil	Nil	Nil	Nil
13.	2003-04	Nil	Nil	Nil	Nil
14.	2003-04	Nil	Nil	Nil	Nil
15.	2003-04	Nil	Nil	Nil	Nil
16.	2004-05	1.85 lakhs	1.85 lakhs	2025	114.44 for 1620 plants
17.	2005-06	Nil	Nil	110	Nil
18.	2006-07	Nil	Nil	Nil	Nil
19.	2007-08	Nil	Nil	Nil	Nil
20.	2008-09	Nil	Nil	Nil	Nil
21	2009-10	Nil	Nil	Nil	Nil
22	2010-11	Nil	Nil	Nil	Nil
23	2011-12	Nil	Nil	Nil	Nil
24	2012-13	Nil	Nil	Nil	Nil
25	2013-14	Nil	Nil	Nil	Nil
26	2014-15	Nil	Nil	Nil	Nil
27	2015-16	Nil	Nil	Nil	Nil
28	2016-17	Nil	Nil	Nil	Nil
29	2017-18	1.475 Lakhs for 5 years	1.475 Lakhs	500	295 for 500 plants
30	2018-19	Nil	0.06 Lakhs	50	120 for 50 plants
31	2019-20	Nil	0.02 Lakhs	20	100 for 20 plants
32	2020-21	Nil	0.02 Lakhs	20	100 for 20 plants
33	2021-22	Nil	2.40 Lakhs	650	369.23 for 650 plants
34	2022-23	Nil	0.50 lakhs	300	166.67
35	2023-24	Nil	0.50 Lakhs	490	
36	2024-25	Nil	0.40 Lakhs	300	

B) Plant Distribution:

Sl No	Year	No. of Plants distributed	Expenditure made	Average cost for each plants
1	2014-15	1000	0.2 Lakhs	Rs.20/plant
2	2015-16	2000	0.46 Lakhs	Rs.23/plant
3	2016-17	10000	3.24 Lakhs	Rs.32.4/plant
4	2017-18	10000	3.15 Lakhs	Rs.31.5/plant
5	2019-20	5000	1.65 Lakhs	Rs.33/plant
6	2020-21	5000	1.55 Lakhs	Rs.31.5/plant
7	2021-22	2500	0.75 Lakhs	Rs.30.0/plant
8	2022-23	2750	0.98 Lakhs	Rs.35.64/plant
9	2023-24	5000	1.935 Lakhs	Rs.38.7/plant
10	2024-25	5000	2.18 Lakhs	Rs.43.60/plant

10. Inspection of plantation by fields: Nil
Experts and their comments and Follow up action.
11. Remarks /any other information.

Sl No	Year	Fund allocated (In Lakh Rs. For 3/5 years.	Expenditure made in lakh Rs. For 3/5 years	No. of plants Planted	Average cost each surviving plants in Rs. (plantation scheme valid for 3/5 years)
1.	1990-91	1.64 lakhs	1.64 lakhs	12000	17.08 for 9600 plants
2.	1991-92	1.77 lakhs	1.77 lakhs	12500	17.7 for 10000 plants
3.	1992-93	2.0 lakhs	2.0 lakhs	15000	16.67 for 12000 plants
4,	1993-94	1.6 lakhs	1.6 lakhs	13000	15.38 for 10400 plants
5.	1994-95	3.75 lakhs	3.75 lakhs	29000	16.16 for 23200 plants
6.	1995-96	6.55 lakhs	6.55 lakhs	20500	39.93 for 16400 plants
7.	1996-97	Nil	Nil	Nil	Nil
8.	1997-98	Nil	Nil	Nil	Nil
9.	1998-99	Nil	Nil	Nil	Nil
10.	1999-2000	Nil	Nil	Nil	Nil
11.	2000-01	Nil	Nil	Nil	Nil
12.	2002-03	Nil	Nil	Nil	Nil
13.	2003-04	Nil	Nil	Nil	Nil
14.	2003-04	Nil	Nil	Nil	Nil
15.	2003-04	Nil	Nil	Nil	Nil
16.	2004-05	1.85 lakhs	1.85 lakhs	2025	114.44 for 1620 plants
17.	2005-06	Nil	Nil	110	Nil
18.	2006-07	Nil	Nil	Nil	Nil
19.	2007-08	Nil	Nil	Nil	Nil
20.	2008-09	Nil	Nil	Nil	Nil
21	2009-10	Nil	Nil	Nil	Nil
22	2010-11	Nil	Nil	Nil	Nil
23	2011-12	Nil	Nil	Nil	Nil
24	2012-13	Nil	Nil	Nil	Nil
25	2013-14	Nil	Nil	Nil	Nil
26	2014-15	Nil	Nil	Nil	Nil
27	2015-16	Nil	Nil	Nil	Nil
28	2016-17	Nil	Nil	Nil	Nil
29	2017-18	1.475 Lakhs for 5 years	1.475 Lakhs	500	295 for 500 plants
30	2018-19	Nil	0.06 Lakhs	50	120 for 50 plants
31	2019-20	Nil	0.02 Lakhs	20	100 for 20 plants
32	2020-21	Nil	0.02 Lakhs	20	100 for 20 plants
33	2021-22	Nil	2.40 Lakhs	650	369.23 for 650 plants
34	2022-23	Nil	0.50 lakhs	300	166.67
35	2023-24	Nil	0.50 Lakhs	490	
36	2024-25	Nil	0.40 Lakhs	300	

B) Plant Distribution:

Sl No	Year	No. of Plants distributed	Expenditure made	Average cost for each plants
1	2014-15	1000	0.2 Lakhs	Rs.20/plant
2	2015-16	2000	0.46 Lakhs	Rs.23/plant
3	2016-17	10000	3.24 Lakhs	Rs.32.4/plant
4	2017-18	10000	3.15 Lakhs	Rs.31.5/plant
5	2019-20	5000	1.65 Lakhs	Rs.33/plant
6	2020-21	5000	1.55 Lakhs	Rs.31.5/plant
7	2021-22	2500	0.75 Lakhs	Rs.30.0/plant
8	2022-23	2750	0.98 Lakhs	Rs.35.64/plant
9	2023-24	5000	1.935 Lakhs	Rs.38.7/plant
10	2024-25	5000	2.18 Lakhs	Rs.43.60/plant

10. Inspection of plantation by fields: Nil
Experts and their comments and Follow up action.
11. Remarks /any other information.

ANNEXURE - I

AMBIENT AIR QUALITY REPORT

(OCTOBER' 2024 TO MARCH' 2025)

1) MONITORING STATION: Project Office (Compliance Station)

DATE	SPM	PM_{10}	$PM_{2.5}$	SO_2	NO_x	Remarks
05.10.2024	215	106	56	14.99	13.57	
30.10.2024	216	108	54	9.58	17.65	
07.11.2024	226	118	57	14.36	14.03	
21.11.2024	236	128	60	18.93	28.76	
07.12.2024	236	130	62	14.99	35.25	
26.12.2024	242	133	66	16.08	37.87	
15.01.2025	253	149	65	10.1	31.85	
29.01.2025	245	177	62	10.54	29.64	
15.02.2025	240	135	60	15.18	20.64	
24.02.2025	251	128	57	14.12	31.31	
01.03.2025	239	138	59	12.08	28.91	
21.03.2025	287	118	56	13.92	18.88	
Max ($\mu g/.m^3$)	**287**	**177**	**66**	**18.93**	**37.87**	
Min ($\mu g/.m^3$)	**215**	**106**	**54**	**9.58**	**13.57**	
Avg ($\mu g/.m^3$)	**240.50**	**130.67**	**59.50**	**13.74**	**25.70**	

2) MONITORING STATION: Sub-station (Compliance Station)

DATE	SPM	PM_{10}	$PM_{2.5}$	SO_2	NO_x	Remarks
05.10.2024	226	135	68	22.35	37.29	
30.10.2024	226	118	58	13.89	13.27	
07.11.2024	253	146	65	17.94	18.94	
21.11.2024	276	168	71	15.02	37.64	
07.12.2024	248	142	65	14.7	37.47	
26.12.2024	257	156	68	17.64	32.19	
15.01.2025	276	175	70	18.9	27.66	
29.01.2025	268	154	67	17.39	34.19	
15.02.2025	286	174	70	13.21	22.48	
24.02.2025	279	166	67	14.75	31.34	
01.03.2025	244	144	58	13.92	27.6	
21.03.2025	247	1146	60	11.25	31.2	
Max ($\mu g/.m^3$)	**286**	**146**	**71**	**22.35**	**37.64**	
Min ($\mu g/.m^3$)	**226**	**118**	**58**	**11.25**	**13.27**	
Avg ($\mu g/.m^3$)	**257.17**	**152.00**	**65.58**	**15.91**	**29.27**	

3) MONITORING STATION: NANDIRA COLONY (Reference Station)

DATE	SPM	PM_{10}	$PM_{2.5}$	SO_2	NO_x	Remarks
03.10.2024	176	76	40	13.5	35.48	
04.10.2024	159	68	35	14.58	20.36	
14.10.2024	168	77	38	11.24	33.94	
15.10.2024	182	81	40	15.33	17.95	
18.10.2024	188	82	40	26.21	45.19	
19.10.2024	195	88	46	19.64	34.34	
23.10.2024	179	80	41	13.33	16.97	
24.10.2024	168	72	32	10.49	19.33	
01.11.2024	196	78	42	15.81	22.07	
02.11.2024	208	85	46	12.51	36.3	
08.11.2024	202	84	44	16.13	43.02	
09.11.2024	198	81	43	17.02	32.26	
15.11.2024	212	86	48	13.2	16.13	
16.11.2024	205	84	45	20.02	12.29	
22.11.2024	198	86	45	17.06	26.4	
23.11.2024	192	80	43	20.02	26.89	
04.12.2024	193	82	41	11.9	21.46	
05.12.2024	206	87	48	13.23	21.46	
11.12.2024	218	92	53	14.11	22.23	
12.12.2024	214	90	49	18.13	17.03	
20.12.2024	204	84	50	17.64	20.9	
21.12.2024	209	86	53	11.22	29.26	
27.12.2024	198	82	48	14.19	27.99	
28.12.2024	223	92	56	12.65	27.99	Dust emission from Local Transportation, Domestic Cooking, RLS
01.01.2025	195	85	47	13.34	30.29	
02.01.2025	224	89	50	15.94	34.99	
08.01.2025	199	87	49	11.5	25.75	
09.01.2025	236	94	53	14.49	27.83	
17.01.2025	196	83	48	18.76	26.19	
24.01.2025	208	84	47	13.96	31.81	
25.01.2025	226	93	50	14.7	20.05	
30.01.2025	187	81	42	15.46	32.6	
31.01.2025	198	84	46	14.98	27.83	
03.02.2025	191	73	40	19.23	33.89	
04.02.2025	203	78	44	16.85	25.69	
10.02.2025	194	74	41	15.61	23.7	
11.02.2025	208	81	46	17.76	22.48	
18.02.2025	217	88	49	19.73	29.43	
19.02.2025	203	83	45	14.38	28.73	
25.02.2025	196	79	44	14.38	32.95	
26.02.2025	188	74	41	14.86	36.33	
03.03.2025	207	85	46	15.75	27.16	
04.03.2025	194	80	43	14.87	28.76	
10.03.2025	187	76	42	16.62	29.56	
11.03.2025	180	70	38	11.81	27.96	
17.03.2025	172	68	34	16.66	21.31	
18.03.2025	187	75	40	18.37	26.37	
24.03.2025	168	60	25	19.69	31.16	
25.03.2025	178	71	37	19.8	36.16	
Max (µg/.m³)	**236**	**94**	**56**	**26.21**	**45.19**	
Min (µg/.m³)	**159**	**60**	**25**	**10.49**	**12.29**	
Avg (µg/.m³)	**196.59**	**81.18**	**43.94**	**15.69**	**27.47**	

4) MONITORING STATION: NATEDI VILLAGE (Reference Station)

DATE	SPM	PM_{10}	$PM_{2.5}$	SO_2	NO_X	Remarks
07.10.2024	180	80	38	12.49	33.26	
08.10.2024	172	75	34	20.53	21.56	
16.10.2024	168	76	35	13.74	15.61	
17.10.2024	178	84	41	14.58	17.65	
21.10.2024	200	85	43	14.62	13.97	
22.10.2024	216	88	49	12.91	23.08	
25.10.2024	188	81	43	19.61	34.19	
26.10.2024	172	74	33	12.24	22.55	
04.11.2024	181	85	46	12.23	22.4	
05.11.2024	195	80	44	17.8	11.65	
11.11.2024	202	87	48	15.52	31.46	
12.11.2024	190	77	42	14.22	28.02	
18.11.2024	196	83	45	16.6	36.51	
19.11.2024	187	78	41	22.13	30.56	
25.11.2024	204	89	47	26.69	28.68	
26.11.2024	210	92	50	21.02	22.58	
02.12.2024	194	78	42	15.04	21.29	
03.12.2024	206	83	45	17.09	32.53	
09.12.2024	212	86	48	15.85	39.3	
10.12.2024	218	91	50	14.02	28.36	
16.12.2024	187	77	44	14.54	21.56	
17.12.2024	193	80	46	8.75	5.76	
23.12.2024	203	85	51	10.19	27.95	
24.12.2024	192	82	48	12.02	14.58	
30.12.2024	189	81	47	9.08	31.13	
31.12.2024	214	87	50	14.19	36.18	
03.01.2025	205	83	46	15.18	25.75	
04.01.2025	230	90	52	17.87	25.63	
10.01.2025	242	93	54	15.94	32.6	
11.01.2025	223	88	50	16.64	29.16	
20.01.2025	225	88	51	16.27	31.81	
21.01.2025	212	84	48	12.35	36.23	
27.01.2025	196	79	44	16.43	23.86	
28.01.2025	223	86	49	17.8	29.3	
04.02.2025	205	82	46	18.72	37.46	
10.02.2025	214	86	48	15.69	33.89	
12.02.2025	186	77	43	17.76	34.52	
13.02.2025	187	74	40	15.18	35.68	
20.02.2025	184	71	38	18.67	27.29	
21.02.2025	206	84	46	19.13	33.71	
27.02.2025	195	78	42	14.67	36.57	
28.02.2025	211	87	48	14.12	34.52	
05.03.2025	186	74	40	16.53	33.73	
06.03.2055	197	81	44	14.87	25.57	
12.03.2025	186	76	41	13.61	24.86	
13.03.2025	202	84	45	18.96	27.52	
19.03.2025	185	72	40	12.51	29.29	
20.03.2025	193	76	41	12.64	31.07	
26.03.2025	184	73	38	19.69	19.97	
27.03.2025	203	80	43	15.2	26.07	
Max	**242**	**93**	**54**	**26.69**	**39.3**	
Min	**168**	**71**	**33**	**8.75**	**5.76**	
Avg	**198.54**	**81.80**	**44.54**	**15.68**	**27.57**	

Dust emission from Local Transportation, Domestic Cooking, RLS

ANNEXURE - II

NOISE LEVEL REPORT

(OCTOBER' 2024 TO MARCH' 2025)

Monitoring Station : Project Office & Sub-station, Nandira Colliery

Date of Monitoring	Project Office		Sub-station		Remarks
	DAY (dBA)	NIGHT (dBA)	DAY (dBA)	NIGHT (dBA)	
09.10.2024	65.5	51.9	68.6	53.9	
23.10.2024	63.2	51.6	66.1	52.9	
08.11.2024	62.3	37.5	68.7	41.2	
22.11.2024	73.2	69.2	71.2	55	
10.12.2024	70.1	54.2	72.1	59.7	
19.12.2024	66.9	48.2	66.9	48.2	
10.01.2025	66.3	52.7	69.3	56.7	
21.01.2025	73.7	59.1	71.3	51.2	
06.02.2025	69.7	48.2	71.3	52.7	
20.02.2025	71.2	53.2	72.7	47.7	
07.03.2025	70.3	51.3	72.3	55.2	
25.03.2025	70.1	52.9	72.1	44.2	
Max (dBA)	**73.7**	**69.2**	**72.7**	**59.7**	
Min (dBA)	**62.3**	**37.5**	**66.1**	**41.2**	
Avg (dBA)	**68.54**	**52.50**	**70.22**	**51.55**	

ANNEXURE - III

MINE DISCHARGE – TREATED WATER QUALITY REPORT
(OCTOBER' 2024 TO MARCH' 2025)

Location: Treated Mine Discharge water Tank/MDTP outlet Tank

DATE	PH	OG	TSS	COD	Remarks
09.10.2024	7.43	<4.0	30	24	-
23.10.2024	7.31	<4.0	26	20	-
05.11.2024	7.44	<4.0	26	28	-
26.11.2024	7.65	<4.0	34	40	-
03.12.2024	7.17	<4.0	33	12	-
31.12.2024	7.84	<4.0	30	20	-
14.01.2025	7.11	<4.0	49	20	-
29.01.2025	7.43	<4.0	52	32	-
08.02.2025	6.86	< 4.0	20	36	-
21.02.2025	7	< 4.0	34	28	-
13.03.2025	7.14	< 4.0	28	24	-
28.03.2025	8.06	< 4.0	23	20	-
Max (mg/L)	**8.06**	**<4.0**	**52**	**40**	-
Min (mg/L)	**6.86**	**<4.0**	**20**	**12**	
Avg. (mg/L)	**7.37**	**<4.0**	**32.08**	**25.33**	

GROUND WATER LEVEL MONITORING DATA
(OCTOBER' 2024 TO MARCH' 2025)

Date of sampling	Name of the station	Depth from GL (in Meter)	Remarks
18.11.2024	Piezometer no. MTP 10	10.00	Post-Monsoon
18.11.2024	Piezometer no. MTP 11	8.05	Post-Monsoon
06.01.2025	Piezometer no. MTP 10	12.00	Winter
06.01.2025	Piezometer no. MTP 11	7.00	Winter