

**Compliance Status of Environmental Condition with respect to Banduhurang Opencast
Mine of Uranium Corporation of India Limited as on March 2025**

Sl. No.	Specific conditions	Status of Compliance
i.	<i>The project proponent shall obtain Consent to Establish from the State Pollution Control Board and effectively implement all the conditions stipulated therein.</i>	Consent to Establish from the State Pollution Control Board has been obtained vide letter no. G-784 dated 28.03.2011. Status of compliance report of all the conditions stipulated therein is being submitted to JSPCB annually.
ii.	<i>The environmental clearance is subject to approval of the State Land use Department, Government of Jharkhand for diversion of agricultural land for non-agricultural use.</i>	District Land Acquisition Officer (DLAO), E. Singhbhum, Jharkhand has delivered the possession of land (agricultural land) of 305.2 acres area vide certificate dated 26.06.2005, 29.11.2007 & 17.07.2008 situated in Banduhurang and Kerwadundri villages in favor of Uranium Corporation of India Limited, for setting of Banduhurang uranium mine. In principle, agricultural land has been acquired for non-agricultural purpose.
iii.	<i>The environmental clearance is subject to grant of forestry clearance. The project proponent shall obtain requisite prior forestry clearance under the Forest (Conservation) Act, 1980 for working in the forest area.</i>	The Ministry of Environment & Forest, Government of India has granted the forestry clearance of 130 ha forest land vide letter no. 8-138/2003-FC dated 07.04.2005 for Banduhurang Uranium Project and Turamdih Plant under the Forest (Conservation) Act, 1980. For the expansion project, no forest land is required.
iv.	<i>The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.</i>	No natural watercourse and/or water resources are obstructed due to any mining operations.
v.	<i>The top soil should be stacked at earmarked site(s) only with adequate measures and it should not be kept unutilized for a period more than 3 years. The topsoil should be used for land reclamation and rehabilitation of mined out areas.</i>	The topsoil is stacked at earmarked site within mine premises to be used for reclamation & rehabilitation of waste dump. About 233743.92 m ³ of top soil has been used for progressive reclamation of waste dump slope during July to December 2024.
vi.	<i>The over burden generated shall be stacked at earmarked dump site(s) only and it should not be kept active for long period of time. The maximum height of the dump shall not exceed 35m, in two terraces of 20m and 15m each, so that the overall slope of dump should not exceed 28 degree. The OB dump should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Backfilling shall start from the year 2018 and the entire backfilled area should be reclaimed and rehabilitated by plantation. Monitoring and management of rehabilitated areas should continue until the</i>	The over burden generated is stacked at the earmarked site within mine lease area and slopes are being terraced. The maximum height of the dump is 35 m with overall slope of dump of 28°. Progressive reclamation of slope of the dump is being done. Top soil has been used to reclaim the slope of dump and subsequently the growth of natural vegetation has developed on it as shown in photograph. Plantation on top and slope of the reclaimed dump has been done. Slope has been stabilized and no erosion is observed in rainy season. Therefore use of geo textiles for stabilization of the dump is not envisaged. As the part of total proposed area for waste dump is not available, the same has been re-located within mining lease. Photograph of

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	<i>vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.</i>	the stabilized slope is annexed herewith.
vii.	<p><i>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, soil, mineral and OB dumps to prevent run off of water and flow of sediments directly into the rivers. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly.</i></p> <p><i>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the rivers and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</i></p>	About 2319 m garland drain around waste dump area has been constructed to collect the runoff water. Two number de-silting pond (<i>sedimentation pits</i>) of total capacity about 100000 m ³ have been constructed at southern corner of the lease area. The run-off water from waste dump area is channeled to the de-silting pond. The collected water in the pond is being utilized for industrial purpose. Photograph showing the de-silting pond is annexed.
viii.	<i>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.</i>	Run off water during rainy season from the waste dump area is channeled via garland drain to the de-silting pond. Rainfall data of the area has been considered for design and evaluation of run-off quantity.
ix.	<i>Suitable embankment of proper dimensions should be constructed to protect the area from flood water during rainy season.</i>	Flood water during rainy season is not expected as the average ground level (163 mRL) of the area is much higher than highest flood level (140 mRL). Therefore construction of embankment is not required for flood protection. Pucca drain of 2553 m length has been constructed to divert the storm water during rainy season.
x.	<i>The project proponent shall develop effective emergency response procedure to ensure appropriate risk management measures in the public domain, if any, due to the project.</i>	As far as project is concerned, no risk is associated to public domain during mining operation. All activities are confined within mining lease only, hence risk in the public domain is insignificant. However we have emergency preparedness plan for eventuality, if any. Guidelines of DGMS & AERB are being followed. In addition to above, we have a dedicated Environmental Monitoring Laboratory located at Turamdih for radiological monitoring and emergency. Radiological Emergency Response Centre (RERC) has been set up at East Singhbhum,

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		Region of Jharkhand at Turamdih to cater any radiological related emergency.
xi.	<i>Plantation shall be raised in an area of 127.9ha including a 7.5m wide green belt in the safety zone around the mining lease, over burden dump site, backfilled area, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.</i>	Progressive greenbelt/tree plantation is continued. Total 12.19 ha tree plantation has been done up to March 2025 within and outside mining lease area. 200 nos. of plantation has been done in the month of June 2024.
xii.	<i>Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard</i>	Regular sprinkling of water on haul road and dust prone area is done. RCC haul road of length about 2150 m has been constructed for ore transportation. Photograph showing water sprinkling in haul road is attached. Ambient air quality monitored during October 2024 to March 2025 at four locations in core zone & buffer zone in terms of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , Pb, Ni & CO parameters are found within the permissible standards. Ambient Air Quality & Noise Level monitored & analyzed by M/s Environmental Laboratories & Engineering Services, Ranchi.
xiii.	<i>The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board</i>	Rainwater harvesting scheme has been implemented in Banduhurang mines for augmentation of ground water resource. Rainwater harvesting recharge pond of size 38 m x 25 m has been constructed at Banduhurang mine. The pond consists of two number of ground water recharge well of depth 20 m inserted with perforated PVC pipe having 6" dia. Filter bed chambers of size 250 mm sand top layer 250 mm gravels and 250 mm and pebbles has been layered inside the recharge well for filtration. Geo tagged photograph of RWH recharge pond is attached. In addition to above, we also have desilting cum mine water pond at Banduhurang. Rain water is collected in the pond and reused in industrial process. Photograph of desilting cum rain water pond is attached.
xiv.	<i>Regular monitoring of ground water level and quality should be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests and its Regional Office, Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground</i>	Ground water level is monitored from the network of existing wells in and around the mine lease area. Ground water is monitored four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January). Ground water levels monitored from the 05 nos. of existing well during November 2024 & January 2025 vary as 0.35 m to 7.90 m & 1.30 m to 8.95 m respectively. Also, as per Section 14 of Guidelines of CGWA, we have constructed two no. of monitoring bore well (additional piezometer) at the core zone of Banduhurang mines to monitor the GW level. A

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	<i>Water Board.</i>	<p>request letter w.r.t requirement of additional key wells, if any is required has also been made to Regional Office, CGWB vide our letter no. UCIL/ENV/BND/CGWB/10/2022 dated 22.09.2022. Ground water level recorder (Piezometer) with telemetry system has been installed at two locations to monitor the GW levels.</p> <p>The water quality from the five locations during November 2024 and January 2025 meets the standard as per IS:10500. Ground Water monitored & analyzed by M/s Environmental Laboratories & Engineering Services, Ranchi & M/s Sun-Tech, Ranchi.</p> <p>Uranium and Radium values in 10 ground water samples carried out during October 2024 & January 2025 varies from 0.5-6.7 µg/l & 11-207 mBq/l respectively which are well within drinking water standards (U- 60 µg/l and ²²⁶Ra -300 mBq/l).</p> <p>Monitoring of ground water level and quality is regularly sent to the Regional Director, Central Ground Water Board, Patna (ref: UCIL/ENV/BND/CGWB/05/2025 dated 03.05.2025).</p>
xv.	<i>The project authorities should obtain prior approval of the competent authority for drawl of surface water and ground water, if any, required for the project.</i>	<p>No groundwater withdrawal has been planned at Banduhurang mine. Mine discharge water is being used for industrial activities e.g. dust suppression, drilling, washing etc. Water supply network of adjacent Turamdih establishment of UCIL is used for drinking water supply to Banduhurang Mine. Agreement has been made with Water Resource Department, Govt. of Jharkhand and UCIL for withdrawal of surface water from Kharkhai river @10000 m³/d for Turamdih establishment which is sufficient for the above requirement.</p> <p>NOC from CGWA has been received for Banduhurang Mines vide letter no CGWA/NOC/MIN/REN/1/2025/11268 dated 28.03.2025 which is valid up to 09.11.2025 for dewatering during mining activity.</p>
xvi.	<i>The project proponent shall submit data generated on pre-project community health status within a radius of 1km of this mine to this Ministry and its Regional Office Bhubaneswar, within three months.</i>	<p>Pre-project community health status report with respect to the existing capacity has been submitted vide our letter no. UCIL/ENV/BND/20/09 dated 20.05.2009.</p> <p>Latest Health Survey Report has been submitted.</p>
xvii.	<i>The mineral handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.</i>	<p>Not applicable as mineral handling plant is not envisaged. Ore mined from Banduhurang Mine is being processed at nearby Ore Processing Plant at Turamdih and DE system is installed at Ore Processing Plant at Turamdih.</p>
xviii.	<i>Consent to operate should be obtained from SPCB before starting enhanced production from</i>	<p>Consent to operate has been obtained from JSPCB vide no. JSPCB/HO/RNC/CTO-9569843/2021/722</p>

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	<i>the mine.</i>	dated 27.05.2021 which is valid till 30.06.2026.
xix.	<i>Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. Overloading of trucks should be avoided to stop spillage. The loaded trucks should be covered with tarpaulin sheets to prevent spillage of ore.</i>	Vehicular emissions are monitored regularly and maintenance of vehicles is practiced. Overloading of trucks is avoided to prevent the spillage. Transportation of ore from Banduhurang Mine to adjacent ore processing plant at Turamdih do not pass through public domain. Pollution Under Control (PUC) Certificate of Tipper vehicle is renewed regularly.
xx.	<i>Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhubaneswar.</i>	M/s Geovale Services Pvt. Ltd., Kolkata has conducted the land use and land cover study of Banduhurang Mines on 21.05.2025. Land use/land cover study is attached.. Wherein Mining, Quarry & Dumps is 133.823 ha, Open land/Barren land is 76.12 ha, Agricultural land is 39.43 ha, Greenbelt/Plantation is 12.19 ha, Forest is 11.27 ha, Canals/Ponds/Waterbodies is 2.53 ha, Settlements is 1.51 ha and Infrastructure (Roads) is 1.28 ha.
xxi.	<i>The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as giant squirrel, Indian elephant, pangolin, sloth bear, python etc. spotted in the study area in consultation with the concerned forest officials. Action plan so prepared for conservation of flora and fauna shall be implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar within 3 months.</i>	Endangered fauna are not spotted in the lease area. Authentication for schedule-I fauna from Divisional Forest Officer has been obtained. UCIL has submitted the action plan for conservation of endangered fauna, if spotted in the area, to the ministry vide letter dated 08.08.2008.
xxii.	<i>Monitoring of background radiation levels in water, soil and ambient air should be carried out periodically in the study area (core and buffer zone) of the project.</i>	Monitoring of background radiation levels in water, soil and ambient air (Gamma Radiation Survey & Radon concentration) is carried out by Health Physics Unit of BARC in core & buffer zone area. Water analysis report has been furnished in condition no. XIV. Environmental Gamma Radiation Survey & Radon concentration has been conducted during October 2024 to March 2025. Gamma radiation in core zone & buffer zone varies from 0.18 to 2.01 $\mu\text{Gy/hr}$ and 0.09 to 0.33 $\mu\text{Gy/hr}$ while Radon concentration in core zone & buffer zone varies from 16-99 Bq/m^3 & 08-83 Bq/m^3 respectively.

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xxiii.	<i>The plants growing in the area, soil invertebrate animals and local agricultural produce should be analyzed to check the build up of radioactivity levels, if any.</i>	<p>Analysis of invertebrate animals (snail) from four locations within mining lease has been analyzed by Health Physics Unit, BARC to check the buildup of radioactivity levels. Results is as under:</p> <table><tr><td>Date of Sampling</td><td>U (Nat) (mg/kg)</td><td>²²⁶Ra (Bq/kg)</td><td>Th (Bq/kg)</td><td>²¹⁰Po (Bq/kg)</td></tr><tr><td>05.08.24</td><td><0.1</td><td>2.9</td><td>0.53</td><td>7.8</td></tr></table>	Date of Sampling	U (Nat) (mg/kg)	²²⁶ Ra (Bq/kg)	Th (Bq/kg)	²¹⁰ Po (Bq/kg)	05.08.24	<0.1	2.9	0.53	7.8
Date of Sampling	U (Nat) (mg/kg)	²²⁶ Ra (Bq/kg)	Th (Bq/kg)	²¹⁰ Po (Bq/kg)								
05.08.24	<0.1	2.9	0.53	7.8								
xxiv.	<i>Discharges from the treatment plant and settling pits should be constantly monitored for concentration of radio nuclides.</i>	Treatment plant at Banduhurang is not envisaged. Mine water from Banduhurang Open Cast mines is not being discharged to the environment. Mine discharge water from mine pit is collected in de-silting pond which is further pumped to Industrial water pond at Turamdih Ore Processing Plant for its industrial use. After industrial use waste water is then pumped to ETP Turamdih for treatment and reused in Banduhurang Mines in mining activities. The treated water from ETP is regularly monitored. Gross alpha (α) and Gross Beta (β) in treated effluent during October 2024 to March 2025 in 6 samples varies as 0.35 to 0.49 Bq/l and 1.8 to 2.1 Bq/l respectively which are within the permissible limits (Limits:- Gross alpha: 3.7 Bq/l and Gross beta: 37 Bq/l).										
xxv.	<i>Sludge from the treatment plant and settling pit should be transported to the tailing pond of Turamdih Ore Processing Plant in safe containment.</i>	Sludge from de-settling tank shall be contained in engineered tailings pond of Turamdih plant.										
xxvi.	<i>The project proponent shall have an emergency response plan to ensure that all potentially affected people understand the possible causes and consequences of radiation and other project related activities.</i>	Emergency Response plan is available for Banduhurang mines, however Banduhurang is an opencast mine of very low grade of uranium ore. Mining of such a low grade ore, radiological emergency doesn't arise. For the radiological surveillance, Health Physics Unit of BARC monitors the various parameters around the project on periodical basis. Atomic Energy Regulatory Board (AERB) periodically reviews the observations.										
xxvii.	<i>Land oustees and land losers shall be compensated as per the National Policy on Resettlement and Rehabilitation of project Affected Families (NPRR), 2003/State Government norms.</i>	Private land of 305.2 acres has been acquired for Banduhurang Mining project. Total amount of compensation paid is Rs. 3,65,69,533/- and 403 employments have been provided.										
xxviii.	<i>Wet drilling and water spraying on muck should be practiced to reduce generation of silica and low level of radioactivity in the work place. The external radiation dose should be monitored quarterly to ensure that workers engaged in the work place are not over exposed.</i>	Wet drilling & water spraying on working area, waste dump and haul road is practiced to reduce the fugitive dust. The external gamma radiation dose rates values from 128 locations of the work place during October 2024 to March 2025 show that it vary from 0.18 to 2.01 µGy/hr (Permissible value: 8 µGy/hr).										
xxix.	<i>Blasting operation should be carried out only during the daytime. Controlled blasting should</i>	Blasting operation is carried out in day time only. All the measures are taken to control the blast										

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	<i>be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.</i>	parameters in consultation with CMRI & DGMS.
xxx.	<i>A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.</i>	A Final Mine Closure Plan will be submitted to MoEFCC before 5 years of mine closure.

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I.	<i>No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.</i>	No change in mining technology & scope of working has been made without prior approval of the Ministry of Environment & Forest.
II.	<i>No change in the calendar plan including excavation, quantum of mineral uranium ore and waste should be made</i>	No change in the calendar plan including excavation and quantum of mineral has been made.
III.	<i>At least four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NO_x and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO₂, NO_x and CO) should be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board/Central Pollution Control Board once in six months.</i>	05 nos. of locations has been considered for Ambient Air Quality stations in core zone & buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , Pb, Ni & CO based on the meteorological data, topographical features and environmentally and ecologically sensitive targets. Ambient air quality monitored during October 2024 to March 2025 at five locations in core and buffer zones in terms of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , Pb, Ni & CO parameters are found within the permissible standards. Ambient Air Quality & Noise Level monitored & analyzed by Environmental Laboratories & Engineering Services, Ranchi.
IV.	<i>Fugitive dust emission from all the sources be controlled regularly mentioned and data recorded properly. Water spraying arrangements of haul roads, wagon loading, dumps loading & unloading points should be provided and properly maintained.</i>	Fugitive dust emission is controlled by wet operation of drilling with dust extraction system and water spraying arrangement on haul roads, loading & unloading points. Water tankers with water sprinkling arrangement are used. Respirable dust was monitored in work zone during October 2024 to March 2025 which varies from 0.10 to 0.76 mg/m ³ . The values are within the permissible limits (0.8 mg/m ³). Photographs of water sprinkling arrangement in haul road is attached.
V.	<i>Adequate measures should be taken for control of noise levels within prescribed standards. Workers engaged in blasting and drilling operations of HEMM, etc., should be provided with ear plugs/muffs.</i>	Personnel protective equipment (ear muffs/plug) is provided to workers. 80 nos. of ear plug/muff has been provided to workers during the period October 2024 to March 2025. HEMM is equipped with glass enclosure cabin for operator to reduce the noise impact during operation. Noise levels vary from 35 to 73 db (A) which is within the permissible limits.
VI.	<i>Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated</i>	Mine water from Banduhurang Open Cast mines is not being discharged to the environment. Mine discharge water from mine pit is collected in de-silting pond which is further pumped to Industrial water pond at Turamdih Ore Processing Plant for its

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	<i>19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop</i>	industrial use. After industrial use waste water is then pumped to ETP Turamdih for treatment and reused in Banduhurang Mines in mining activities.
VII.	<i>Acid mine water, if any has to be treated and disposed of after confirming to the standard prescribed by the competent authority</i>	Not applicable.
VIII.	<i>Personnel working in dusty 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 programme of the workers should be undertaken periodically to observe any contractions due to exposure to radioactive mineral dust and take corrective measures, if needed. The same programme may be extended to adjoining villages also.</i>	<p>Personnel working in dusty area are provided with PPE. Use of PPE is monitored. Total 1024 nos. of PPE has been distributed to workers during the period October 2024 to March 2025. Vocational Training Officer (VTO) conducts various programs e.g. initial, refresher, special & development trainings on occupational health & safety and other topics as per the certified schedule of DGMS.</p> <p>Occupational health surveillance:</p> <ol style="list-style-type: none"> 1. Pre employment medical examination for lung function, x-ray, & audiometric test, pathological test, ECG & physical tests. 2. Periodical medical examination of all employees. 3. Medical facility is provided for all employees and their dependent. 4. Medical teams visit surrounding villages periodically and medicines are supplied free of cost. <p>During October 2024 to March 2025, total 42 employees were medically examined from Mine & 07 employees were given vocational training from Mine.</p>
IX.	<i>Environmental laboratory should be established with adequate number and type if pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.</i>	Environmental engineering laboratory has been set up at Turamdih to cater the need of UCIL's operation in Jharkhand. Apart from this, Environmental Surveillance Laboratory of Bhabha Atomic Research Centre at Turamdih is also established for environmental and radiological monitoring.
X.	<i>A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the organization.</i>	Environmental Engineering Cell (EEC) has been set up at Turamdih with suitable qualified personnel. EEC is under direct supervision of General Manager (Civil, Env. & CR&D) who report to the Director of the organization. All the environmental management activities related to this project is carried out by EEC. At mines level, safety meeting is held on monthly basis and members from Health Physics Division, BARC and EEC is present to monitor and address the radiological environmental safety.

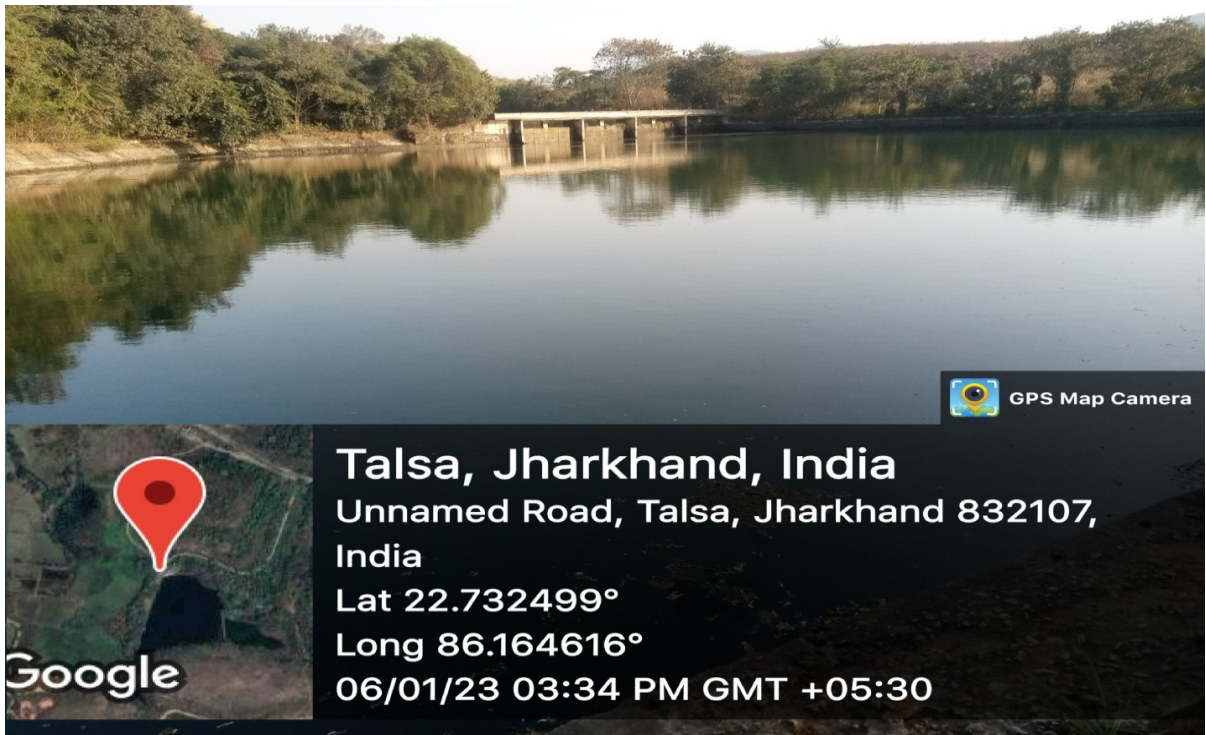
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XI.	<i>The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.</i>	<p>Fund for environmental protection measure is made available as under:</p> <table border="1"> <thead> <tr> <th>Sl No</th><th>Activity</th><th>Cost (in lakhs)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Water management system including construction of de-silting ponds and drainage</td><td>350.00</td></tr> <tr> <td>2</td><td>Laying of pipeline from de-silting pond to ore processing plant of Turamdih for reuse of mine discharge water</td><td>78.00</td></tr> <tr> <td>3</td><td>Constructions of garland drain in South eastern & Western waste dump yard and construction of active/ non active scrap yard.</td><td>70.90</td></tr> <tr> <td>4</td><td>Cost of water spraying & water recycle by pumping from desilting pond to plant for year 2024-25..</td><td>256.38</td></tr> <tr> <td>5.</td><td>Plantation cost for year 2024-25.</td><td>0.44</td></tr> <tr> <td>6.</td><td>Construction of Rain Water Harvesting Pond.</td><td>5.10</td></tr> </tbody> </table> <p>In addition to above, Rs. 12.91 lakhs has been incurred towards environmental monitoring for the year 2024-25.</p>	Sl No	Activity	Cost (in lakhs)	1	Water management system including construction of de-silting ponds and drainage	350.00	2	Laying of pipeline from de-silting pond to ore processing plant of Turamdih for reuse of mine discharge water	78.00	3	Constructions of garland drain in South eastern & Western waste dump yard and construction of active/ non active scrap yard.	70.90	4	Cost of water spraying & water recycle by pumping from desilting pond to plant for year 2024-25..	256.38	5.	Plantation cost for year 2024-25.	0.44	6.	Construction of Rain Water Harvesting Pond.	5.10
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5.	Plantation cost for year 2024-25.	0.44																					
6.	Construction of Rain Water Harvesting Pond.	5.10																					
XII.	<i>The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.</i>	The competent authority has approved the financial sanction for capacity enhancement. Land development work for enhancement of production is not applicable as no additional land has been envisaged. Only rate of production of the existing mine will be enhanced.																					
XIII.	<i>The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.</i>	Uranium Corporation of India Ltd. is committed to take action of any requirement/suggestion of the Ministry for safeguard of environment. We have extended our full cooperation to officials of Regional Office of MoEF, Ranchi during site visit held on 2 nd & 3 rd July 2018.																					
XIV.	<i>The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board.</i>	Being Complied.																					
XV.	<i>A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal</i>	Not applicable as no suggestion/ representation had been received while processing the proposal.																					
XVI.	<i>State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.</i>	Complied with by State Pollution Control Board, Ranchi.																					
XVII.	<i>The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and</i>	UCIL had advertised in two local newspapers widely circulated on 18.05.2008.																					

Sl. No.	General Conditions	Status of Compliance
	<i>a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhubaneswar.</i>	

Photograph of the stabilized slope



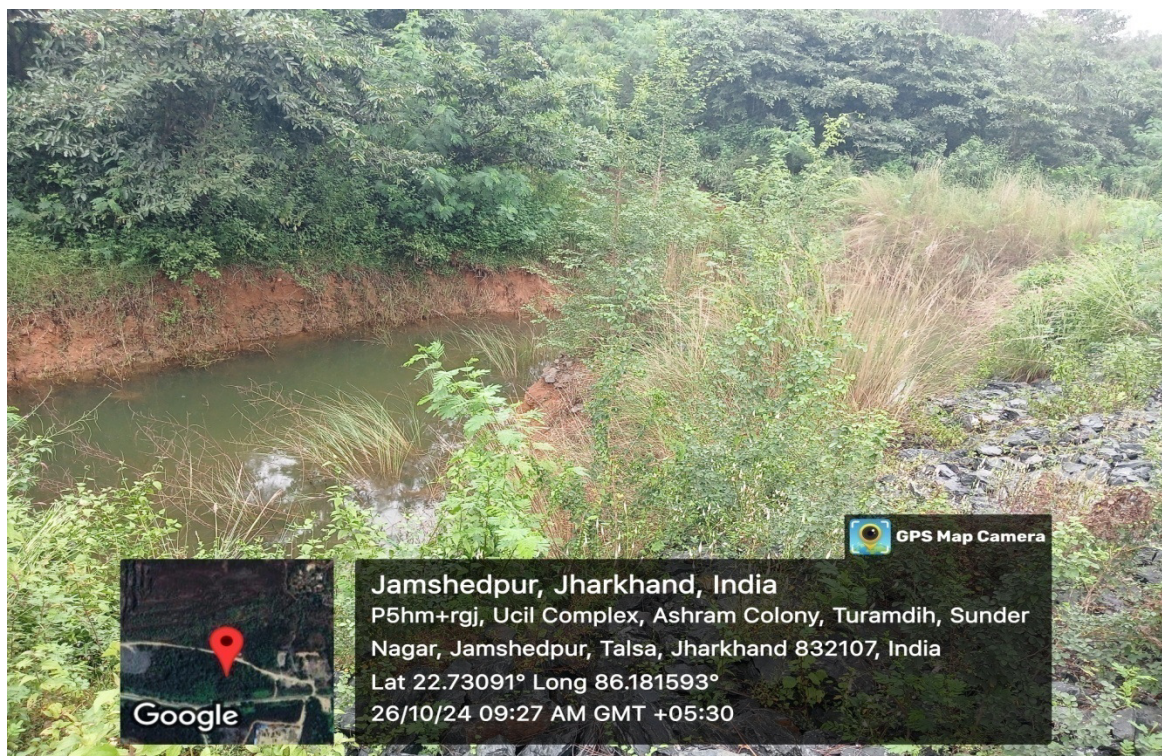
Photograph of Rainwater cum mine water desilting pond



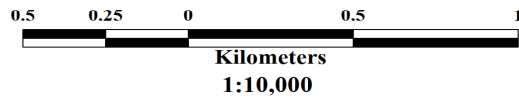
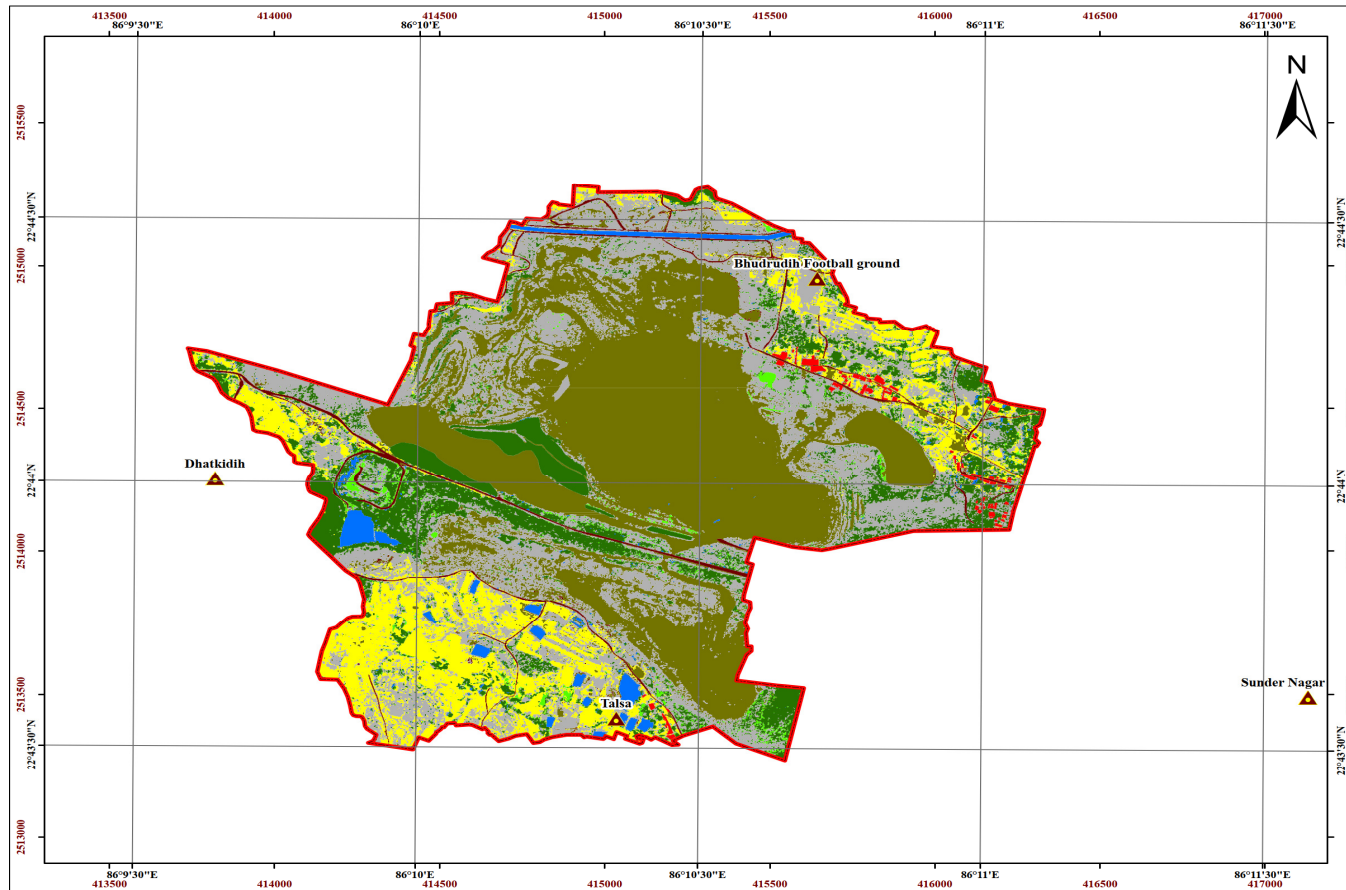
Photograph showing water sprinkling in haul road



Geo-tagged photograph of Rain Water Harvesting Structures



Land Use Land Cover Map for Banduhurang Mining Lease Area



THIS DRAWING IS THE PROPERTY OF UCIL AND IS ISSUED FOR THE SPECIFIC PROJECT MENTIONED THEREIN, THIS IS NOT TO BE COPIED OR USED FOR OTHER PROJECTS UNLESS EXPRESSLY PERMITTED BY UCIL

REFERENCES :
SATELLITE IMAGE CARTOSAT-2S
SPATIAL RESOLUTION 1.6m
IMAGERY DATE : 11 - MARCH - 2024

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Preparation of Land Use Land Cover Map of Banduhurang Open Cast Mine Lease Area using Remote Sensing Techniques

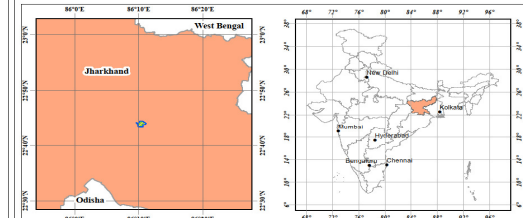
Uranium Corporation of India Limited (UCIL)

(A Government of India Enterprise)
(CIN:U 12000 JH 1967 GOI 000806)
Singhbhum East, Jharkhand - 832102



Project Implementing Agency (PIA) :

Geovale Services Private Limited
GN 38/5, 3rd Floor, Sector V, Salt Lake,
Kolkata, West Bengal 700091



LEGEND

	Area (Ha)
Banduhurang Open Cast Mine Area	278.153
Known Locations	
Mining, Quarry & Dumps	133.823
Open land / Barren land	76.12
Agricultural land	39.43
Greenbelt / Plantation	12.19
Forest	11.27
Canals / Ponds / Waterbodies	2.53
Settlements	1.51
Infrastructure (Roads)	1.28

Uranium Corporation of India Limited (UCIL) (A Govt. of India, Dept. of Atomic Energy Enterprise) Banduhurang Open Cast Mine

Drawn by	Name & Designation	Prabir Bhattacharya, Project Manager
	Signature	
Checked & Verified by	Name & Designation	Sujay Payra, Project Manager
	Signature	
Approved by	Name & Designation	Biplob Chatterjee, CEO
	Signature	21.05.2025