

Compliance Status of Environmental Condition with respect to Tummalapalle Project of Uranium Corporation of India Limited as on March 2026

A. Specific conditions:

Sl. No.	Condition	Status of Compliance
i	<i>Regular monitoring of subsidence movement on the surface over working area and impact on water bodies/vegetation/structures/surrounding shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.</i>	Subsidence monitoring survey is being carried out on monthly basis, and no subsidence is observed.
ii	<i>The Project authorities should check the possibility of existence of fault(s) before deciding about the thickness of safe barriers required to be maintained between the working face and the river in consultation with the director General Mine & safety (DGMS).De-pillaring should be carried out after talking prior approval of the DGMS.</i>	No river and water body exits in core as well as buffer zone. Necessary permission from Director General Mines & Safety (DGMS) is being obtained for all major mining activities.
iii	<i>Garland drain shall be constructed around the mine to prevent ingress of surface run off.</i>	Garland drains about 2500m length have been constructed around the mine to prevent ingress of surface run- off.
iv	<i>The crushing and grinding of ore shall be in a closed system. The uranium processing plant shall be provided with adequate number of high efficiency dust extraction and filtration systems. Loading and unloading areas including all the transfer points should have efficient dust control arrangements. These should be property maintained and operated.Fog type suppression system shall be providing in ore stack yard in ore processing plants.</i>	The crushing and grinding of ore is being done in a closed system. Fog type dust suppression is provided at ore receiving station & conveyer transfer points in primary crushing unit. High efficiency dust extraction and filtration systems have been provided at various locations of the plant.
v	<i>Emissions from the boiler shall be scrubbed before discharging through the stack.</i>	UCIL has adopted in built control mechanism at source to reduce the SO ₂ emission by using LDO as a fuel in boiler. LDO contains about 1% of Sulphur, so SO ₂ level in flue gas will be less and same is being discharged through 54 m high stack, scrubber may not be required.
vi	<i>Vehicular emissions shall be kept under control and regularly monitored. Overloading of trucks is avoided to stop spillage. Trucks carrying the mineral shall be covered with tarpaulin sheets to prevent spillage of ore.</i>	Ore from mine is being transported to mill through closed conveyor.
vii	<i>The project authority should implement suitable water conservation measures including rainwater harvesting to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</i>	Mine discharge water and treated effluent water is being used in industrial operation. Re-use of effluent water reduces the fresh water requirement for operations. Rainwater harvesting pond constructed in the plant for augmenting ground water resources.
viii	<i>Regular monitoring of ground water level & quality should be carried out by establishing a network of existing wells & constructing new Piezometer during the mining operation.</i>	Regular monitoring of ground water level and quality is being carried out for existing wells.

ix	<i>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 MoEF, Central Ground Water authority and CGWB.</i>	The monitoring of ground water level of the existing wells around the project is being done.
x	<i>The proponent shall carry out groundwater modelling studied in the area simulating transient conditions to predict the impact of mining on groundwater regime in and around the area on a long-term.</i>	Ground water modelling and particle studies have been entrusted to M/s Anna university, Chennai, submitted the report to APPCB.
xi	<i>The mine discharge and effluent discharge shall be recycled in the mine. Discharges from the treatment plant and disposal of sludge shall be undertaken in safe manner and constantly monitored for maintaining the levels of radionuclides in the ambient environment within permissible levels</i>	The mine discharge water is treated in ETP and subsequently reused in mine and ore processing plant. Sludge from ETP shall be taken to safe containment in tailing pond. Radionuclides in the ambient environment are monitored by Health Physics Unit of BARC.
xii	<i>The project authorities shall undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine. The data so collected shall be made available to the general public, if required.</i>	The sample survey to generate data on pre-project community health status around the mine has been done.
xiii	<i>Monitoring of background radiation levels within 10 km radius and even beyond in water, soil, and ambient air should be carried out periodically in the study area (core and buffer zone) of the project and proper records and maintained therefore the data so collected shall be made available to the general public, if required</i>	Background radiation levels is being monitored by Health Physics Unit of BARC.
xiv	<i>The company shall establish full fledged health physics unit/environmental surveillance laboratory at the project site and undertake compressive environmental surveillance for radiological parameters in an around the projects upto 10 km an beyond</i>	A full-fledged Health Physics Unit (HPU) is functional at Tummalapalle. HPU monitors the radiological parameters in and around the projects on periodical basis.
xv	<i>The tailings pond shall be lined to prevent ground water contamination and overflow shall be collected, treated and recycled in the ore processing plant and mine for industrial use. The ETP sludge shall be pumped back to the tailings pond. Effluent shall be treated in the sewage treatment and after conforming to the prescribed standards shall be used for irrigation.</i>	<ul style="list-style-type: none"> • The tailing pond has been lined as per APPCB & AERB guidelines. • Decanted water from Tailing Pond is being treated in ETP and subsequently reused in processing plant. Sludge from ETP is pumped to tailing pond for safe containment. • STP work in commissioning stage.
xvi	<i>The plant growing in the area, soil invertebrates and local agricultural produce shall be analysed to check the build up of radioactivity levels, if any the data so collected shall be made, available so to the general public, if required</i>	The plant growing in the area, soil invertebrates and local agricultural produce were analysed to check the build up of radioactivity levels by HPU periodically. All the Results are within the limits.
xvii	<i>Plantation shall be developed in an area of 360 ha by planting the native species around the ML area, roads etc. in consultation with the local DFO/agriculture department .The density of the trees shall be around 250 plants per ha.</i>	Afforestation work has been undertaken by AP Forest Dept. on 04.10.2021. Nurseries have been established and work under progress.
xviii	<i>Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years of monitoring land use pattern and report submitted to MoEF and its regional office.</i>	Complied.

xix	<i>A final mine closure plan along with details of CorpusFund shall be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.</i>	It will be done.
xx	<i>Land oustees should be compensated as per the state government norms/govt of India policy. Approval R&R policy is implanted.</i>	Being complied.

B. General conditions:

i	<i>No change in mining technology & scope of working should be made without prior approval of the Ministry of Environment & forests.</i>	Noted & it is being strictly followed.
ii	<i>No change in the calendar plan including excavation, quantum of mineral uranium & waste should be made.</i>	Noted & it is being strictly followed.
iii	<i>At least four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO₂, NO_x & CO monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally & ecologically sensitive targets in the consultation with the State Pollution Control Board. Data on Ambient air quality (RPM, SPM, SO₂, NO_x&CO) should be regularly submitted to the ministry including its regional office at Bangalore & to the State Pollution Control Board/Central Pollution Control Board once in six month.</i>	Ambient air quality monitoring results (Core zone and Buffer zone) During October 2025 to March 2026 has been done.
iv	<i>Fugitive dust emission from all the sources should be controlled regularly monitored & data recorded properly. Water spraying arrangement on haul roads, wagon loading, dumps, loading &unloading points should be provided and properly maintained.</i>	Dust emissions are controlled by water sprinklers on haul roads. Fog systems have been provided at ore unloading station and transfer points of conveyer belts.
v	<i>Adequate measures should be taken for control of noise level within prescribed standards. Workers engaged in blasting & drilling operations, operations of HEMM, etc should be provided with ear plugs/muffs.</i>	Adequate measures have been taken for control noise. Personal protective equipment (ear muffs/plug) is provided to workers engaged in Blasting & Drilling operation.
vi	<i>Industrial wastewater (workshop & waste from the mine) should be properly collected treated so as to conform to the standards prescribed under GRS 422 (E) dated 19th May 1993 & 31st December 1993 or as amended from time to time. Oil & grease trap should be installed before discharge of effluent from workshop.</i>	Industrial wastewater is not discharged to the environment. Mine discharge is fully reused for industrial purpose. Wastewater from mines vehicle workshop is passing through oil and grease trap before its reuse.
vii	<i>Personal working in dusty areas should wear protective respiratory devices & they should also be provided with adequate training & information on safety & Health aspects.</i>	Protective respiratory devices are provided to all persons working in dusty areas and adequate training has been given.
viii	<i>Occupational Health Surveillance programme of the workers should be undertaken periodically to observe any contractors due to exposure to radioactive mineral dust & take corrective measures, if needed. The same programme may be</i>	Occupational Health Surveillance and Periodical medical examination of all employees is being carried out.

	<i>extended to adjoining village also.</i>	
xi	<i>Environmental laboratory should be established with adequate number & type of pollution Monitoring & analysis in the consultation with the State Pollution Control Board.</i>	Environmental laboratory has been established at the site.
x	<i>A separate environmental management cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the organisation</i>	Environmental Management Cell is set up under the control of senior environmental engineer who reports to Head of the organisation.
xi	<i>The funds earmarked for environmental protection measures should be kept in separate account & should not be diverted for other purpose .Year-wise expenditure should be reported to the Regional Office, Bangalore of the MoEF & to the Ministry.</i>	The dedicated separate account for Environmental protection measures is being maintained.
xii	<i>The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.</i>	Uranium Corporation of India limited is committed to take action on any requirements/suggestion of the ministry for safe guarding the environment .We will extend our full cooperation to officials of Regional Office of MoEF, Vijayawada.