

Status of compliance of environmental condition of uranium recovery plant from copper tailing at Mosabani for the capacity of 0.9 MTPA located at Mosabani, East Singhbhum District, Jharkhand as on September 2020

Sl. No.	Specific conditions	Status of Compliance
1.	<i>The project proponent shall reuse the recovered water from tailings from tabling circuit in the process and reduce the water drawl from Suvarna Rekha River.</i>	Clarifier has been considered in the process circuit to recover water for its reuse to reduce the fresh water drawl from Subarnarekha River.
2.	<i>The PP shall under take greenbelt development in 1.5 ha with total no of 3500 trees of local species.</i>	Plantation will be developed over 1.5 ha area with total 3500 no of trees. Work has been assigned to M/s MECON for detailed engineering considering above requirement.
3.	<i>Handling and transportation of radioactive material shall be as per the guide lines of Atomic Energy Regulatory Board.</i>	Guidelines of Atomic Energy Regulatory Board will be followed. Health Physics Unit of Bhabha Atomic Research Centre (BARC), Jaduguda will look after the relevant guidelines of AERB for its implementation.
4.	<i>The recommendations of the approved Site-Specific Wild life Conservation Plan/ Wildlife Management Plan shall be implanted in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report.</i>	Site-Specific Wild life Conservation Plan/ Wildlife Management has been prepared and submitted to PCCF & Chief Wildlife Warden, Ranchi vide letter no UCIL/ENV/MURP/Forest/03/2018 dated 01.08.2018. Site visit by PCCF Cum Chief Wildlife Warden, CF and DFO has been conducted on 12.10.2019. The revised report incorporating comments received from the PCCF has been submitted to DFO, Jamshedpur on 10.02.2020.
5.	<i>The PP shall incorporate a system of reporting non-compliance to the board of directors in the Environment Policy and submit the same to the Ministry.</i>	Agreed.
6.	<i>The PP shall submit the water drawl permission from competent authority to the Ministry</i>	Application for drawl of water has been made online on Water Resource Department, Jharkhand portal on 24.06.2017. Water allocation committee meeting held on 22.04.2019 has recommended for drawl of water, official letter is awaiting.
7.	<i>The project authority shall undertake sample survey to generate data on pre-project community health status within a radius of 1km from the proposed plant site. The data so collected shall be made available to the general public, if required.</i>	A health survey was carried out to study the health status of villagers residing within 5 km of proposed project during 13.05.2019 to 17.03.2019. 279 villagers were examined from Rangamatia, Banalopa, Baliagora, Teta, Badia, Media and Dhobani villages. It was concluded that the villagers suffer from conventional health problems which could be seen in any village with similar socio-economic condition.

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		Report is attached herewith. (Annexure-I) .										
8.	<i>Monitoring of background radiation levels within 10 km radius in water, ambient air and soil should be carried out periodically in the study area and proper records maintained thereof. The data so collected shall be made available to the general public, if required.</i>	Monitoring of background radiation levels within 10 km radius in water, ambient air and soil is carried out by Health Physics Unit of BARC.										
9.	<i>The plants growing in the area, soil invertebrates and local agricultural produce shall be analyzed to check the buildup of radio activity levels. If any. The data so collected shall be made available to the general public, if required.</i>	<p>Soil invertebrates (snail) in nearby area within 10 km have been analyzed to check the build up radio activity levels. Results are as under:</p> <table border="1"> <thead> <tr> <th>Sampling</th> <th>U (Nat) (mg/kg)</th> <th>²²⁶Ra (Bq/kg)</th> <th>Th (Bq/kg)</th> <th>²¹⁰Po (Bq/kg)</th> </tr> </thead> <tbody> <tr> <td>18.07.20</td> <td><0.1</td> <td>2.0</td> <td>1.0</td> <td>0.8</td> </tr> </tbody> </table>	Sampling	U (Nat) (mg/kg)	²²⁶ Ra (Bq/kg)	Th (Bq/kg)	²¹⁰ Po (Bq/kg)	18.07.20	<0.1	2.0	1.0	0.8
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10.	<i>The Company shall establish full-fledged environmental surveillance laboratory at the project site and undertake comprehensive environmental surveillance for radiological parameters periodically in the study area and proper record maintained thereof</i>	Noted. Comprehensive environmental surveillance for radiological parameters will be carried out periodically by Health Physics Unit of BARC Jaduguda in the study area. Monitoring has been started.										

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1.	Statutory compliance: <i>i. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.</i>	Consent to Established has been obtained from JSPCB vide its letter no JSPCB/HO/RNC/CTE-3862497/2019/333 dated 29.05.2019.
	<i>ii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.</i>	Noted. Application shall be made after construction activity and generation of hazardous waste (waste lubrication oil) starts.
2.	Air quality monitoring and preservation <i>i. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants</i>	Ambient Air Quality monitoring has been conducted by EEC, UCIL. Ambient Air Quality & Noise Level has also been monitored by M/s Scientific Research Laboratory, Ranchi through online monitoring system of Jharkhand State Pollution Control Board.

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	<p>released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual)</p>	
3.	<p>Water quality monitoring and preservation</p> <p>i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/ sampling wells in the</p> <p>ii. plant and adjacent areas through labs recognized under Environment (protection) Act, 1986 and NABL accredited laboratories.</p>	<p>Health Physics Unit (HPU), Jaduguda of BARC periodically monitors the ground water quality in and around the project area. BARC is the authorized body for radiological monitoring. The monitoring results of ground water quality conducted by HPU. Ground Water monitored & analyzed by M/s Scientific Research Laboratory, Ranchi through online monitoring system of Jharkhand State Pollution Control Board.</p>
	<p>iii. Adhere to 'Zero Liquid Discharge'</p>	<p>Noted. No discharge is envisaged from the process.</p>
	<p>iv. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.</p>	<p>Noted. This has been considered in detail engineering.</p>
	<p>v. The project proponent shall practice rainwater harvesting to maximum possible extent.</p>	<p>Noted. Roof top rainwater harvesting system will be implemented. This has been considered in detail designing.</p>
4.	<p>Noise monitoring and prevention</p> <p>i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report</p>	<p>Noise monitoring has been conducted by EEC, UCIL. Values are within permissible limit.</p>
	<p>ii. The ambient noise levels should conform to the standards prescribed under E(P) A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.</p>	<p>As above</p>

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5.	Energy Conservation measures <i>i. Provide solar power generation on roof tops of building, for solar light system for all common areas, street light, parking around project area and maintain the same regularly.</i>	Noted.
	<i>ii. Provide LED lights in their offices and residential areas.</i>	Noted.
6.	Waste management <i>i. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules, 2016</i>	Noted.
	<i>ii. Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)</i>	Noted.
7.	Public hearing and Human health issues <i>i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.</i>	Noted.
	<i>ii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</i>	Noted.
8.	Corporate Environment Responsibility <i>i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.</i>	Job has been awarded for maintenance of tube wells around the project area and installation of new tube wells.
	<i>ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/ violation of the environmental/ forest / Wildlife norms/ conditions. The company shall have defined system of reporting</i>	Company has well laid down Environmental Policy. It has been submitted.

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	<p><i>infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as part of six-monthly report.</i></p>	
	<p><i>iii. A separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</i></p>	<p>Environmental Engineering Cell (EEC) has been constituted for environmental surveillance and monitoring. The EEC comprises of a one senior environmental engineer who directly reports to the General Manager (Project) and two Environmental Engineers, three Officers, 2 technical assistance and 3 staffs. Health Physics Unit Jaduguda will conduct periodical radiological and environmental surveillance.</p>
	<p><i>iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise fund earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the six Monthly Compliance Report.</i></p>	<p>Noted. Rs 1 lakhs approximately has been spent on environmental monitoring up to September 2020.</p>
	<p><i>v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</i></p>	<p>Noted.</p>
	<p><i>vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.</i></p>	<p>Noted.</p>
9.	Miscellaneous	

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	<p><i>i. The project proponent shall make public the environment clearance granted for their project along with the environment conditions and safeguards at their cost by prominently advertising it at two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</i></p>	<p>UCIL had advertised on 31.01.2019 in two local newspapers, widely circulated. The same has been submitted to the RO, MoEFCC Ranchi vide letter no UCIL/ENV/MURP/MoEF/12/2019 dated 28.06.2019.</p>
	<p><i>ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</i></p>	<p>The copies of the environment clearance has been submitted to the Member Secretary, JSPCB, Deputy Commissioner, Jamshedpur, Circle Officer, Musabani, Gram Panchayat office-Badia&Musabani village vide letter no UCIL/ENV/GEN/MURP/08/2018 dated 17.11.2018.</p>
	<p><i>iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.</i></p>	<p>Status of compliance as on March 2020 has been uploaded on the website.</p>
	<p><i>iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOX (ambient level as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.</i></p>	<p>Noted. Ambient Air Quality monitoring has been conducted by EEC, UCIL. Results will be displayed after commissioning of the project.</p>
	<p><i>v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate at environment clearance portal.</i></p>	<p>Noted. Six monthly compliance report as on March 2020 has been uploaded.</p>

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	vi. <i>The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.</i>	Noted.
	vii. <i>The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.</i>	Noted.
	viii. <i>The Project authorities must strictly adhere to the stipulations made by the state Pollutions Control Board and the State Government.</i>	Noted.
	ix. <i>The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their Presentation to the Expert Appraisal Committee.</i>	Noted.
	x. <i>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change (MoEF&CC).</i>	Noted.
	xi. <i>Concealing factual data or submission of false/ fabricated data may result in revocation of the environmental clearance and attract action under the provision of Environment (Protection) Act, 1986.</i>	Noted.
	xii. <i>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</i>	Noted.
	xiii. <i>The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these</i>	Noted.

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	<i>conditions.</i>	
	xiv. <i>The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.</i>	Noted.
	xv. <i>The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.</i>	Noted.
	xvi. <i>Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</i>	Not applicable.