

## TURAMDIIH MINES

### Compliance Status of Environmental Condition with respect to Turamdih Mines as on March 2017

SL. No.	Condition	Compliance
i.	<i>The people residing in the village to be affected by the mining operation shall be appropriately rehabilitated by providing them houses and land for agriculture as per the Rehabilitated Plan drawn up by the UCIL</i>	The District Land Acquisition officer has declared 292 awards against acquisition of 368 acres land including 40 houses for Turamdih project. An amount of Rs. 58, 74,344 has been paid as compensation and 406 employments have been provided against the above displacement.
ii.	<i>The waste dumps will be properly sloped, terraced and planted with appropriate tree / vegetation.</i>	A small waste dump covering an area of 2.7 ha has been earmarked for waste dump site within mine premises. During initial period of mine development, waste rock was transferred to the dump. At present entire waste generated during mining activity is being used for void filling in underground. Plantation has been developed around the dump and natural vegetation has come up which has stabilized most of the dump area. A length of 560 m garland drain has been constructed around the dump area which finally merges with channel leading to De-silting pond of Banduhurang opencast mine of UCIL.
iii.	<i>The Mine water will be treated for removal of radium prior to its discharge in the water bodied.</i>	Mine discharge water is collected in underground sump and subsequently pumped to Mine Water Treatment Plant for de-silting. De-silted mine water is partly reused for industrial purpose within the mine premises and excess water is pumped to Turamdih Ore Processing Plant for reuse. No water is discharged to the environment from Turamdih Mine.
iv.	<i>The township for the employees shall not be constructed in the forest area.</i>	Noted
v.	<i>The provisions made in the Environmental Management Plan to protect the employees and their families from the radiological effects likely to arise due to this project shall be strictly implemented and regular monitoring of their implementation shall be done.</i>	Pre employment and Periodical medical examination of all employees for blood test, lung function test, x-ray, audiometric test, ECG & physical tests etc. is conducted. Facilities have been developed at Turamdih / Narwapahar hospitals for periodical medical examination. Medical facility is provided to all employees and their dependent. Provision of referral facility to Tata Main Hospital, Jamshedpur and other reputed hospitals e.g. AIIMS, CMRI, CMC Vellore etc. is also in place.  Dedicated Health Physics Unit (HPU) of BARC has been established at Turamdih mine. HPU carry out periodical radiological surveillance. No radiological effects have been observed due to UCIL operation at Turamdih and elsewhere.

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vi.	<i>The various environmental parameters will be regularly monitored during the construction and operational phase of the project.</i>	The periodic monitoring of radiological and environmental parameters is done by the Health Physics Unit of BARC, and Environmental Engineering Cell of UCIL respectively. Monitoring report of two ground water samples during October 2016 to March 2017 shows that pH, Turbidity, Chloride, Sulphate, Total Hardness as CaCO <sub>3</sub> , Total Alkalinity, Nitrate Nitrogen, Calcium, Nitrate and heavy metals (Cu, Pb, Zn) are within drinking water standards except Iron & Aluminum. Ambient air quality in terms of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , Pb and Ni parameters are within the permissible standards. Detailed report is annexed herewith.
vii.	<i>A periodic report regarding the implementation of various environmental control measures and the monitoring of environmental parameters will be submitted to this department every six months.</i>	The six monthly report as on 31 <sup>st</sup> March 2017 is sent herewith.