



वेस्टर्न कोलफील्ड्स लिमिटेड
WESTERN COALFIELDS LIMITED
(मिनीरत्न कंपनी) (A Miniratna Company)
(कोल इंडिया लि. की अनुषंगी कंपनी)
(A Subsidiary of Coal India Limited)



एक कदम स्वच्छता की ओर

उपक्षेत्रीय प्रबन्धक का कार्यालय
घोंसा उपक्षेत्र

Ghonsa Sub Area,
Wani North Area
घोंसा उपक्षेत्र, वनी उत्तर क्षेत्र

Office of the Sub Area Manager
Ghonsa Sub Area.
www.westerncoal.nic.in

पंजी.का: पो.रासा, तह. वनी, जि. यवतमाल (महाराष्ट्र)-445304/ Regd. Off Po Rasa, Tah Wani, Dist. Yavatmal Mah- 445304

Ref. No. - WCL/JWNA/GSA/SAM/2023-24/1356 Dt. 27-11-2023

प्रति,
अपर मुख्य प्रधान वन संरक्षक,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (पश्चिम केन्द्रीय क्षेत्र),
भूतल, ईस्ट विंग, न्यू सेक्रेटरीएट बिल्डिंग,
सिविल लाइन्स, नागपुर - 440 001 (महाराष्ट्र राज्य)

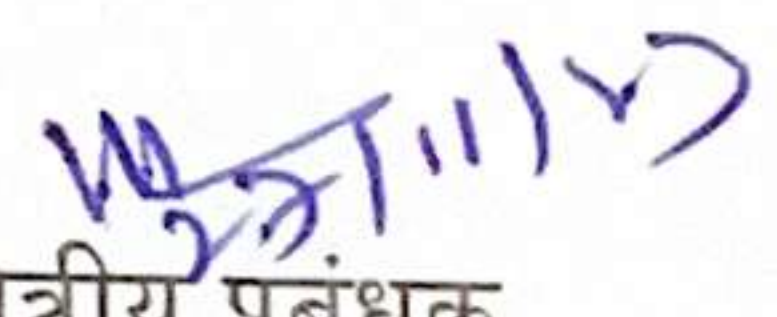
विषय:- Six Monthly Compliance Report of Conditions Stipulated in Environmental Clearance for **Shivani OC Coal Mine Project (1.4375 MTPA)** of Wani North Area, WCL for the period **April 2023 to September 2023**

महोदय,

With reference to above subject matter, please find enclosed herewith the Six Monthly Compliance Report of Conditions Stipulated in Environmental Clearance for **Shivani OC Coal Mine Project (1.4375 MTPA)** of Wani North Area, WCL for the period **April 2023 to September 2023** for your kind information please.

Thanking you Sir.

भवदीय,


उपक्षेत्रीय प्रबंधक
घोन्सा उपक्षेत्र

प्रतिलिपि:

1. क्षेत्रीय महाप्रबन्धक, वणी नार्थ क्षेत्र
2. महाप्रबंधक (पर्यावरण/विभागाध्यक्ष), वेस्टर्न कोलफील्ड्स लिमिटेड, मुख्यालय, नागपुर, महाराष्ट्र - 440 001
3. क्षेत्रीय अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, प्रथम तल, उद्योग भवन, स्टेशन रोड, चंद्रपुर, महाराष्ट्र - 442 401
4. क्षेत्रीय नोडल अधिकारी(पर्या.), वणी नार्थ क्षेत्र
5. कार्यालय प्रति

No. J-11015/21/2012-IA.II (M)
Government of India
Ministry of Environment, Forests & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi-110003

Dated: 24th December, 2014

To,

The General Manager (Environment),
M/s Western Coalfields Ltd.,
Coal Estate, 9th Floor, Civil Lines,
NAGPUR -440001
Email: wclenv@yahoo.in

Sub. : Shivani OCP Coal Mine project (Normative 1.25 MTPA to Peak 1.4375MTPA in an ML area of 780 ha; Latitude N 20°14'05" to N 20°15'1" and Longitude E 78°54'23" to E 78°55'25") M/s Western Coalfields Limited, located at distt. Yavatmal, Maharashtra - Environmental Clearance reg.

Sir:

This is with reference to letter no. 43011/1/2012-CPAM dated 05.01.2012 along with the application for Terms of Reference (TOR) and this Ministry's letter dated 23.03.2012 granting TOR. Reference is also invited to the letter no WCL/ENV/HQ/11-J/ dated 01.07.2014 and subsequent letter nos. dated 20.10.2014 and 17.11.2014 for environmental clearance on the above-mentioned subject.

2. The Ministry of Environment, Forest & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance for **Shivani OCP Coal Mine project (Normative 1.25 MTPA to Peak 1.4375 MTPA in an ML area of 780 ha; Latitude N 20°14'05" to N 20°15'1" and Longitude E 78°54'23" to E 78°55'25") M/s Western Coalfields Limited, located at distt. Yavatmal, Maharashtra.** The TOR was granted to the project, vide letter no. J-11015/21/2012-IA II (M) dated 05.01.2012. The TOR was valid upto 22.03.2014. The Proponent submitted the EIA/EMP report on 01.07.2014. The TOR expired as per the earlier OM dated 22.03.2010. However, in accordance to the OM no. J-11013/41/2006-IA-II(I) (Part) dated 22.08.2014, the proposal was considered in the 23rd EAC meeting held on 16th -17th October, 2014. The proponent has informed that:

- i. The project was accorded TOR vide letter no. J-11015/21/2012-IA.II (M) dated 23.03.2012.
- ii. The latitude and longitude of the project are N 20°14'05" to N 20°15'1" and E 78°54'23" to E 78°55'25" respectively.
- iii. Joint Venture: there is no joint venture.
- iv. Coal Linkage : Linked to Thermal Power Plants of MAHAGENCO
- v. The land usage of the project will be as follows:

Pre-Mining:

S.N.	LAND USE	Within ML Area (ha)	Outside ML Area (Ha)	Total
1	Agricultural land	708.60	30.00	738.60



2	Forest land	--	--	
3	Waste land/Govt. land	39.08	--	39.08
4	Grazing land	--	--	
5	Surface water bodies	--	--	
6	Settlements	2.32	--	2.32
7	Others (specify)	--	--	
	Total	750.00	30.00	780.00

Post- Mining:

S.N.	Land use during mining	Land use (ha)				
		Plantation	Water Body	Public use	Undisturbed	Total
1	External OB Dump.	201.00	-	-	-	201.00
2	Top soil dump	49.85	-	-	-	49.85
3	Excavation	24.00	106.00	-	84.00	214.00
4	Roads	1.43	-	2.25	-	3.68
5	Built up area	-	-	56.32	-	56.32
6	Undisturbed Area	98.57	-	-	114.58	213.15
7	Embankment area				42.00	42.00
	Total	374.85	106.00	58.37	240.58	780.00

Core area:

Sl.No.	Particulars	Total Area (ha)
1.	Quarry Area	214
2.	Embankment	42
3.	External OB dump	250.85
4.	Road/Infrastructure	30
5.	Area needed for rationalization and blasting zone	213.15
6.	Colony	15
7.	Land for Shivani village Rehabilitation	15
	Total Land	780

- vi. The total geological reserve is 23.33 MT. The mineable reserve 18.90 MT, extractable reserve is 18.90 MT. The per cent of extraction would be 81.01 %.
- vii. The coal grade is GCV 3649 kCal/kg (Grade-E) The stripping ratio is 1: 9.07. The average Gradient is 1 in 10 to 1 in 13. There will be one seam with thickness ranging 11.36 m.
- viii. The total estimated water requirement is 610 KL/day. The level of ground water ranges Pre monsoon Core zone 5.98 to 1.60 m. bgl& Buffer zone 5.20 m to 11.26 m bgl and Post monsoon Core zone 5.80 m to 7.25 m bgl& Buffer zone 1.35 m to 7.25 m bgl.
- ix. The Method of mining would be by opencast with shovel-dumper combination.
- x. There is two external OB dump with Quantity of 119.11 Mm³ in an area of 201.00 ha with height of 30 m top soil dump & 90 m OB dump meter above the surface level and one internal dump with Quantity of 52.21 Mm³ in an area of 108.00 ha.
- xi. The final mine void would be in 106.00 Ha with depth of 175.00 m. and the Total quarry area is 214.0 Ha. Backfilled quarry area of 24.00 Ha shall be reclaimed with plantation. A void of 106.0 ha with depth of 175 m which is proposed to be converted into a water body.

- xii. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- xiii. The life of mine is 20 Years.
- xiv. Transportation: Coal transportation in pit by Dumpers, Surface to Siding by Dumpers and loading at siding by pay loaders.
- xv. There is R & R involved. There are 269 homestead PAFs.
- xvi. Cost: Total capital cost of the project is Rs. 348.8985 Crores. CSR Cost Rs. 5 per tone crores/year. R&R Cost Rs. 21.2369. Environmental Management Cost Rs 3.00/t
- xvii. Water body: Wardha river is flowing near the mine lease boundary of the project.
- xviii. Approvals: Ground water clearance not applicable. Board's approval obtained on 29.10.2011. Mining plan has been approved on 29.10.2011. Mine Closure Plan approval on 29.10.2011.
- xix. Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xx. Forestry issues: There is no forest land involved.
- xxi. Total afforestation plan shall be implemented covering an area of 374.85 ha at the end of mining. Green Belt over an area of 374.85 ha. Density of tree plantation 2500 trees/ ha of plants.
- xxii. There are no court cases/violation pending with the project proponent.
- xxiii. Public Hearing was held on 23.10.2013. The issues raised in the PH includes Rehabilitation of Shivani Village; Returning land to farmers after end of mining; decision regarding "Bembla Project"; Employment to land less villagers and farm workers. details of Mining Method and land acquisition details; Land rates; Construction road and basic civic facilities in villages; Pollution control measures.
- xxiv. This is a Greenfield Project. The plantation proposed in the mine area will be taken up as per practice in WCL through State Forest Expert Agencies. The species to be planted will be native of the area. Green belt cover all along the corridor between Quarry Surface and the mine lease area (bank of river) following the alignment of embankment will be developed.
- xxv. Actions will be taken during mine operation for artificial recharge of ground water through construction of check dams along the nearby natural water courses.
- xxvi. The ground water levels of aquifers at or near the mining working depth will be regularly monitored.
- xxvii. One portable digital testing Kit for onsite monitoring of pH, Conductivity, Total Dissolved Solids (TDS), Salt & Temperature (One Digital Meter) on regular basis at project level will be provided.
- xxviii. Regarding surface transportation of coal, the R.O.M. coal from the CHP will finally be dispatched by road to Rajur siding. All preventive measures viz. covering of trucks by tarpaulin and avoiding over loading will be followed.
- xxix. Once the Proposed Chinchala-Chikalgaon siding comes up, the subject mine of 1.4375 MTPA capacity & Chinchala-Chikalgaonoc of 3.90 MTPA capacity will be added to handle the entire coal production of about 5-5.50 MTPA through silo loading system onto rail wagons.
- xxx. There is no endangered and endemic species found in the area as per Red Book of Botanical Survey and Zoological survey of India as per Wild Life (Protection) Act 1972 and its subsequent amendments.
- xxxi. The external Black cotton soil dump will be re-handled into the final void of quarry. This will result in release of 49.85 ha of land for productive land use and simultaneous reduction in overall void depth from 175 m to 110m (i.e. reduction of final depth by 65 m). The Re-worked land use plan at the end of mining:-

S.N.	Land use Pattern	Area in ha
1	External OB Dump	201.00
2	External Black Cotton soil dump	0.00
3	Excavation	214.00

4	Roads	3.68
5	Built up area	56.32
6	Undisturbed Area	213.15
7	Embankment area	42.00
8.	Recovered area after re- handling of black cotton soil dump	49.85
	Total	780.00

3. The proposal was considered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) and recommended in 23rd EAC meeting held on 16th -17th October, 2014 for granting Environmental Clearance. The Ministry of Environment, Forests and Climate Change hereby accords environmental clearance for the above-mentioned **Shivani OCP Coal Mine project (Normative 1.25 MTPA to Peak 1.4375 MTPA in an ML area of 780 ha; Latitude N 20°14'05" to N 20°15'1" and Longitude E 78°54'23" to E 78°55'25")** M/s Western Coalfields Limited, located at distt. Yavatmal, Maharashtra under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/ circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

A. Specific Conditions:

- i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- ii. The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.
- iii. The entire strip of 150 m between mine lease and river bank should be planted with the dense plantation.
- iv. Native plant species shall be planted.
- v. There shall not be any void left after the end of mining.
- vi. The land shall be brought back for agriculture purpose at the end of mining.
- vii. The OB dump shall be covered with grasses till it is re-handled.
- viii. Till the Railway siding comes up for silo loading as proposed, the loading of coal shall be by Pay Loaders.
- ix. Rain water harvesting and other facilities should be created for ground water recharge.
- x. Surface run off must pass through the settling tank before releasing into water body.
- xi. Coal transportation in pit by Dumpers, Surface to Siding by Dumpers and loading at siding by pay loaders.
- xii. The production shall be within the same Mining Lease area.
- xiii. The depth of the void shall be 40 m from the ground level and should be adequate for fishery purpose.
- xiv. The OB shall be completely re-handled at the end of the mining. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil for agriculture purposes.
- xv. Garland drains be provided.
- xvi. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xvii. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- xviii. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.
- xix. Dust mask to be provided to everyone working in the mining area.
- xx. The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.

- xxi. People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
- xxii. The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.
- xxiii. The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- xxiv. There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- xxv. OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forests & Climate Change and its concerned Regional office on yearly basis.
- xxvi. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- xxvii. Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- xxviii. Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
- xxix. Drills shall be wet operated.
- xxx. The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,
- xxxi. Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- xxxii. A Progressive afforestation plan shall be implemented covering an area of 374.85 ha at the end of mining, which includes reclaimed External OB dump area (201 ha), Internal OB dump area (24 ha), along roads and Green belt (374.85 ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.
- xxxiii. An estimated total 171.32 Mm³ of OB will be generated during the entire life of the mine. Out of which 119.11 Mm³ of OB will be dumped in two external OB Dumps an earmarked area covering 201 ha of land with height of 90 m. 52.21 Mm³ of will be one internal OB dump in covering an area of 108 ha with height of 40m. The maximum height of external OB dump for hard OB will not exceed 90 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEF and its Regional Office on yearly basis.
- xxxiv. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxv. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
- xxxvi. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
- xxxvii. No groundwater shall be used for mining operations.

- xxxviii. Of the total quarry area of 214 ha, the backfilled quarry area of 24 ha shall be reclaimed with plantation and a void of 106 ha at a depth of 140 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
- xxxix. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & climate change and the Central Pollution Control Board quarterly within one month of monitoring.
- xl. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- xli. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
- xl.ii. Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
- xl.iii. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
- xliv. For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF&CC and its concerned Regional office
- xl. v. A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.
- xl. vi. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- xl. vii. Corporate Environment Responsibility:
- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.

- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- v. Adequate measures shall 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 shall be provided with ear plugs/muffs.
- vi. Industrial wastewater (workshop and wastewater from the mine) shall 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 shall be installed before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- xiii. The Project authorities shall 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 letter informing that the project has been accorded environmental 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 & Climate Change at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be

displayed at the entrance of the project premises and mine office and in corporate office and on company's website.

- xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
- xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xix. The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.

4. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.

5. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent

6. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

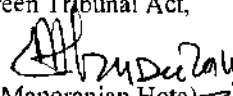
7. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

8. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.

9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

10. The above conditions will 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 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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

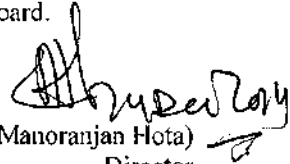
11. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Dr. Manoranjan Hota)
Director

Copy to:

- 1. Secretary, Ministry of Coal, New Delhi.

2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI – 400032.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal – 462016.
4. Member Secretary, Maharashtra State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai – 400002.
Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
5. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
6. Dr. R.K. Garg, Advisor, Coal India Limited, SCOPE Minar, Core-I, 4t Floor, Vikas Marg, Laxmi nagar, New Delhi.
7. District Collector, Yavatmal, Government of Maharashtra.
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board.


(Dr. Manoranjan Hota)
Director

Ministry of Environment, Forests & Climate Change,
Regional Office (WCZ), Nagpur

MONITORING PROFORMA PART – I (DATA SHEET)

Name of the Project	Shivani Open Cast Coal Mine Project
Location and Address	Office of the Sub Area Manager, Ghonsa Sub Area, Post-Rasa, Tah- Wani, Dist- Yavatmal, State- Maharashtra.
Address for correspondence	Office of the Sub Area Manager, Ghonsa Sub Area, Post-Rasa, Tah- Wani, Dist- Yavatmal, State- Maharashtra.
MoEF&CC Environmental Clearance letter No. & Date	J-11015/21/2012-IA.II(M) dt.24.12.2014
Period of Status Report	April'2023 to Sep'2023
Date of commencement of Project	Not yet started.

Status of Land Acquisition:

The details are given as below:

Type of Land	Required as per EMP (Ha)	Acquired as on 30.09.2023
Forest	NIL	--
Agriculture	738.60	--
Govt. Waste Land	41.40	--
TOTAL	780.00	--

Status of Legal Compliances: - Not applicable, Mine has not opened yet.

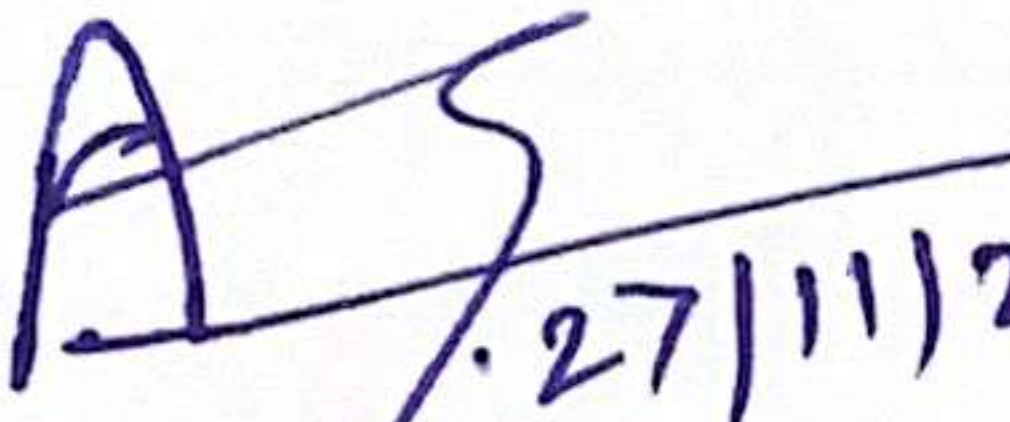
a)	Consent under Water (Prevention & Control of Pollution) Act	-
b)	Consent under Water (Prevention & Control of Pollution) Cess Act	-
c)	Environment (Protection) Act	J-11015/21/2012-IA.II(M) dt.24.12.2014
d)	Forest (Conservation) Act	-

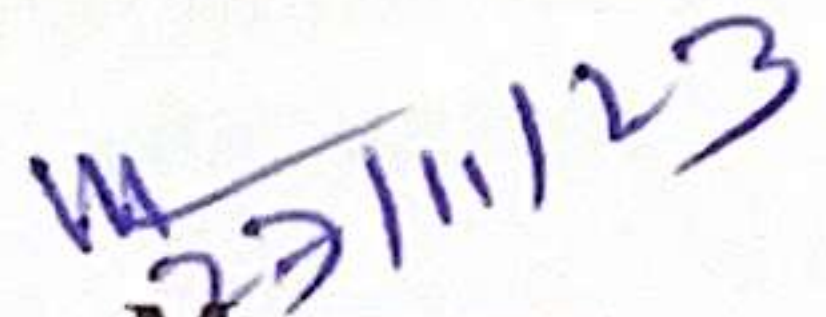
5	Area of new site (Ha)	
6	Status of development	
7	Civic amenities provided at new resettlement site	

Organizational set up for Project (Environment Cell):-

Name and designation of the persons:

- (1) Shri. Uday Kumar Mehta, Sub Area Manager, Ghonsa Sub Area.
- (2) Shri Anil Kumar Shinde, SOE(Civil)/ NO(Env.), Ghonsa Sub Area


 27/11/2023
 SOE (Civil)/NO(Env)
 Ghonsa Sub Area


 27/11/23
 Sub Area Manager
 Ghonsa Sub Area

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

Name of the Project: SHIVANI OC COAL MINE PROJECT (Peak Production Capacity 1.4375 MTPA)

EC Letter No.: MoEF&CC vide EC Letter No.: J-11015/21/2012-IA.II(M) dated 24th December, 2014 (Peak Production Capacity 1.4375 MTPA)

Period of Status Report: For the period of April'2023 to Sep'2023.

Sr. No	Specific Conditions	Compliance Status
1	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Mine is not opened, will be complied.
2	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.	Agreed. Will be complied.
3	The entire strip of 150 m between mine lease and river bank should be planted with the dense plantation.	Will be complied.
4	Native plant species shall be planted.	Will be complied.
5	There shall not be any void left after the end of mining.	Will be complied.
6	The land shall be brought back for agriculture purpose at the end of mining.	Will be complied.
7	The OB dump shall be covered with grasses till it is re-handled.	Will be complied.
8	Till the railway siding comes up for silo loading a proposed, the loading of coal shall be by pay loaders.	Will be complied.
9	Rain water harvesting and other facilities should be created for ground water recharge.	Will be complied.
10	Surface run off must pass through the settling tank before releasing into water body.	Will be complied.
11	Coal transportation in pit by dumpers, surface to siding by dumpers and loading at siding by pay loaders.	Will be complied.
12	The production shall be within the same mining lease area.	Will be complied.
13	The depth of the void shall be 40 m from the ground level and should be adequate for fishery purpose.	Will be complied.

14	The OB shall be completely re-handled at the end of the mining. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil for agriculture purposes.	Will be complied.
15	Garland drains be provided.	Will be complied.
16	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Will be complied.
17	The CSR cost should be Rs 5 per tonnes of coal produced which should be adjusted as per the annual inflation.	Will be complied as per company rules.
18	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Will be complied.
19	Dust mask to be provided to everyone working in the mining area.	Will be complied.
20	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Will be complied.
21	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.	Will be complied.
22	The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.	Will be complied.
23	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.	Will be complied.
24	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.	Will be complied.
25	OB shall be stacked at two earmarked external OB dumpsite (S) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and	Will be complied after opening of the mine.

	management of existing reclaimed dumpsite shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the ministry of Environment, Forests & climate change and its concerned regional office on yearly basis.	
26	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development etc. the drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Will be complied after opening of the mine.
27	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Will be complied after opening of the mine.
28	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.	Will be complied after opening of the mine.
29	Drills shall be wet operated.	Will be complied after opening of the mine.
30	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.	Will be complied after opening of the mine.
31	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative	Will be complied after opening of the mine.

	measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	
32	A progressive afforestation plan shall be implemented covering an area of 374.85 Ha at the end of mining, which includes reclaimed external OB dump area (201 ha), internal OB dump area (24ha), along roads and Green belt (374.85 ha) and in township located outside the lease by planting native species in consultation with the local DSO/Agriculture department. The density of the trees shall be around 2500 plants per Ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	Will be complied after opening of the mine.
33	An estimated total 171.32 Mm ³ of OB will be generated during the entire life of the mine. Out of which 119.11 Mm ³ of OB will be dumped in two external OB dumps an earmarked area covering 201 ha of land with height of 90 m 52.21 Mm ³ of will be one internal OB dump in covering an area of 108 ha with height of 40m. the maximum height of external OB dump for hard OB will not exceed 90m. the maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MOEF and its Regional Office on yearly basis.	Will be complied after opening of the mine.
34	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Will be complied after opening of the mine.
35	Compensatory Ecological & restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Will be complied.

36	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	Will be complied.
37	No groundwater shall be used for mining operations.	Will be complied.
38	Of the total quarry area of 214 ha. The backfilled quarry area of 24 ha shall be reclaimed with plantation and a void of 106 ha at a depth of 140 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation / afforestation by planting native plant species in consultation with the local DFO/Agriculture department. The density of the trees shall be around 2500 plants per ha.	Will be complied.
39	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the ministry of Environment, Forest & Climate change and the Central Pollution control board quarterly within one month of monitoring.	CMPDI RI IV is engaged by WCL for all mines. Will be complied.
40	The company shall put up artificial groundwater recharge measure for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Will be complied.
41	Sewerage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Will be complied.
42	Besides carrying out regular periodic health check-up of their workers, 10%	Will be complied.

	of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency/institution within the District/State and the results reported to this Ministry and to DGMS.	
43	Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.	Will be complied.
44	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF &CC and its concerned Regional Office.	Will be complied.
45	A detailed final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	Will be complied.
46	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measure under CSR to be carried out over the balance life of the mine.	Will be complied.
47	Corporate Environment Responsibility :	
	a) The company shall have a well laid down Environment Policy approved by the Board of Directors.	Coal India Environmental Policy approved by the Board of Directors is exist.
	b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or	Agreed.

	forest norms/conditions.	
	c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Agreed. Will be complied.
	d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	Will be complied.

General Conditions

1	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate change.	Will be complied.
2	No change in the calendar plan of production for quantum of mineral coal shall be made.	Will be complied.
3	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	Will be complied.
4	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central	Will be complied.


	Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	
5	Adequate measures shall 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 shall be provided with ear plugs/muffs.	Will be complied.
6	Industrial wastewater (Workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Will be complied.
7	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Will be complied.
8	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.	Will be complied.
9	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Will be complied.
10	Occupational health surveillance	Will be complied.

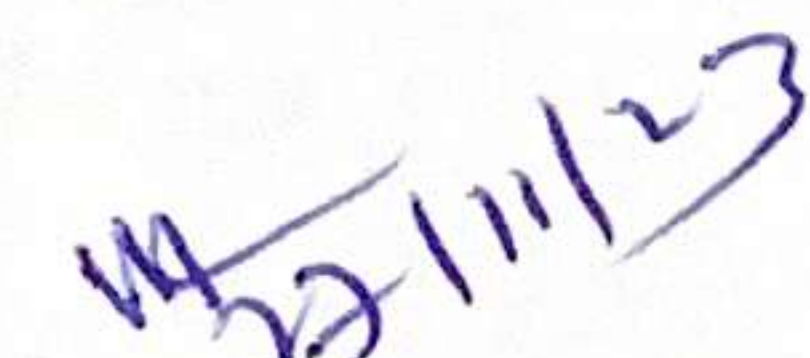
	programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	
11	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the Company.	A separate environment cell exist at unit level Sub Area Manager assisted by Nodal Officer (Environment), at Area level Area GM is assisted by ANO(Environment) and at Company level General Manager, Environment/HOD; who directly report to DT P&P, WCL.
12	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Will be complied.
13	The project authorities shall 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 letter informing that the project has been accorded environmental 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 & Climate Change at http://envfor.nic.in .	Complied.
14	A copy of the environmental clearance letter shall be marked to concern Panchayat / Zilla Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any	Complied

	suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	
15	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collectors Office/ Tehsildar's Office for 30 days.	Complied.
16	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	Will be complied.
17	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of this Ministry, respective Zonal offices of CPCB and the SPCB.	Will be complied.
18	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extent full cooperation to the office(S) of the Regional Office by furnishing the requisite	Agreed. Will be complied.

	data/information/ monitoring reports.	
19	The Environmental statement for each financial year ending 31 March in for-V is mandated to be submitted by the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF&CC by email.	Will be complied.
20	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Will be complied.
20	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent	Will be complied.
21	The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Will be complied.
22	The ministry or any other competent authority may stipulate any further condition for environmental protection.	Will be complied.
23	The proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC conditions.	Will be complied.
24	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under	Will be complied.

	the provisions of Environment (Protection) Act, 1986.	
25	The above conditions will 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 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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water and occupational and other diseases due to the mining operations.	Will be complied.
26	Any appeal against this environmental clearance 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	Will be complied.


 27/11/2023
 SOE (Civil)/NO (Env)
 Ghonsa Sub Area


 Sub Area Manager
 Ghonsa Sub Area