

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

(For the period April 2022 to September 2022)

Name of the Project : Kolarpimpri Extension Open Cast Mine (for production capacity from 1.05 MTPA to 1.50 MTPA)

EC Letter No.: MoEF&CC vide letter no.J-11015/928/2007-IA.II(M) dated 29.04.2010

A. Special Conditions:-

Sr. No.	Conditions	Compliance
i)	The embankment constructed along the river boundary shall be of suitable dimensions and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	The embankment has been constructed along river boundary after taking due permission from Directorate General of Mines Safety (DGMS) and the height above the HFL is maintained as per the provisions of Coal Mines Regulation, 1957 and allied Technical Circulars issued by DGMS. The dimension and construction of embankment takes into account the peak water flow to prevent any danger to the mine from inundation due to inrush of surface water. Further, to increase the strength and stability of the embankment, plantation has been already done.
ii)	The mining operations shall not extend in the balance 961 ha of the lease area until the R& R for all the villages has been completed and compensation paid to land oustees as per norms not less than that laid out under the National R&R Policy.	Agreed, The mining operation shall be extended in the balance 961 Ha land only after the R&R for all the villages is completed and compensation is paid to land oustees as per R&R policy.
iii)	OB shall be stacked at four earmarked external OB dumpsite(s) only covering an area of 641.98 ha and shall not exceed the max. height of 65m consisting of benches of 15m each. The ultimate slope of the dump shall not exceed 28 degree. Monitoring and management of the reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.	Overburden will be dumped at earmarked sites only. The maximum height of internal OB dump will not exceed 65 m above ground level. 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.
iii)	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 utilized 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	Catch drain of size 3.5 m x 2 m has been provided around the periphery of OB dumps as well as soil dumps to arrest silt and sediment flows from the respective dump site. In case of OB benches in the quarry, cross drainage has been provided which carry silt and sediments into the main sump made at floor of the seam. These sumps accumulate all the silts and act as a primary stage of silting pond. Then the water is pumped out on the surface and discharge to surface sedimentation tank which is of size 40 x 16 x 1.5 mtr. The clear water from the sedimentation tank is discharged to nallah which ultimately discharge to the Wardha river, some part of the water is used for sprinkling over mine roads, surface roads also for gardening. The catch drain around the OB dumps regularly

	area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper setting of silt material.	de-silted before and during the monsoon. In addition, garland drain of size 4 x 2.5 mtr. Also made around periphery of the excavation area which carry the surface waters and these drains are regularly de-silted.
iv)	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.	As indicated above, the run off from the OB dumps are collected in the catch drains made around the periphery of the dumps (dimensions of catch drains given above). For collecting run off and siltation from OB benches, mine sump as detailed above, is in operation and acts as main settling / siltation pond. The capacity of this sump has been made to cater the entire peak rainfall in the catchment area .
v)	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.	Crusher of adequate capacity is provided with water sprinkling system to check fugitive emissions from crushing operation etc.
vi)	Drills shall be wet operated.	Drills have been provided with dust extractors. Drills are operated only during day time.
vii)	The project authorities shall ensure that the roads used for mineral transportation are black topped and properly maintained. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads, and major haul roads.	The main approach road has been black topped and is being maintained properly. Plantation have been done along the arterial roads and over embankments.
viii)	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.	Controlled blasting is carried out after due permission from DGMS so as to control ground vibrations and arrest fly rocks and strictly as per conditions laid down by DGMS. The blasting is carried out only in day time.
ix)	A progressive afforestation plan shall be implemented covering an area not less than 902.28 ha, which includes reclaimed external OB dump (674.55ha), backfilled area (88.73ha), along ML boundary, along roads and infrastructure (5 ha), embankment (55 ha) and within vacant land (356.22 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 avenue plantation along the main approach roads to the mine.	Progressive afforestation is being practiced. From 1994-95 to 2019-20 total 96.27 Ha area have been planted by 2,40,680 plants in embankment, dumps and non dumps area with the density of trees 2500 plants per hectare. The practice of plantation will be taken up as a due responsibility in the future also.
x)	Of the total quarry area of 357.65 ha, the backfilled quarry area of 88.73 ha	Agreed and will be taken up due course of time

	shall be reclaimed with plantation and a void of 268.90 ha which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized 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.	
xi)	No groundwater shall be used for mining operations.	No ground water is being used for the mining operations.
xii)	Monitoring of ground water regime and river flow conjunctively on regular and long term basis shall be undertaken in view that the mine site is in the proximity of the river Wardha, through a close network of observation wells / piezometers & river gauging. Similarly, the hydro geological impact on account of proposed expansion should also to be monitored regularly on long term perspectives.	Regular monitoring of ground water level and quality is being carried out four times in a year in pre-monsoon (May), monsoon(August), post-monsoon (November) and winter (January) and for quality in May. Data is being submitted regularly.
xiii)	A comprehensive 'Ground Water Monitoring Plan' shall be submitted within a period of three months of grant of EC. The plan shall incorporate information on details of piezometer / well (depth, locations) site characteristic, monitoring parameters (quality and quantity), time frame of implementation and budgetary provisions etc. 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 and to the Central Pollution Control Board quarterly within one month of monitoring.	Agreed. Monitoring of Ground water level and quality is being monitored regularly and data is being submitted regularly.
xiv)	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.	Water from mine discharge is passed through sedimentation tank (size of 40.0 m x 16.0 m x 1.5 m) & after proper settling the same is fed into local nallahs / streams to be used by nearby villagers for their agriculture etc. If wells in nearby village go dry, project authorities will supply water from the mine through water tankers as a prior responsibility.

xv)	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	For treatment of domestic sewage Septic tank and soak pits have been provided. ETP equipped with oil skimmer, flash mixture, dosing chamber etc. is provided for workshop.
xvi)	Besides carrying out regular periodic healthy 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 agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.	Periodical medical examination/health checkup of workers are regularly done in WCL hospital.
xvii)	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 and its Regional office at Bhopal.	It is being complied. Land Restoration – Reclamation Monitoring based on Satellite Data carried out by CMPDIL, Ranchi. The reports are regularly being submitted to MoEF&CC besides uploading in the company website
xviii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within six months from date of environmental clearance for approval.	Mine closure plan has been prepared and duly approved by WCL Board. The corpus fund has been deposited in following escrow account: Bank & Branch : Oriental Bank of Commerce, Jaripatka, Nagpur Escrow Acc. No. : 08973161009477 (Renewed) Balance as on 31.03.2022: Rs. 537552819
xix)	The project authorities shall in consultation with the panchayat of the local villages identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine. A budgetary provision of Rs. 5 per tone of coal shall be earmarked for CSR activities.	The socio – economic developmental as well as welfare activities are being taken up under CSR through consultation with the neighboring villages. Similar works will be carried out during the balance life also. As per CSR policy of Coal India Limited Rs. 2/tonne of coal produced or 2% of the average net profits of the company made during the three immediately preceding financial years whichever is more is spent on Corporate Social Responsibility works


B. General Conditions :-

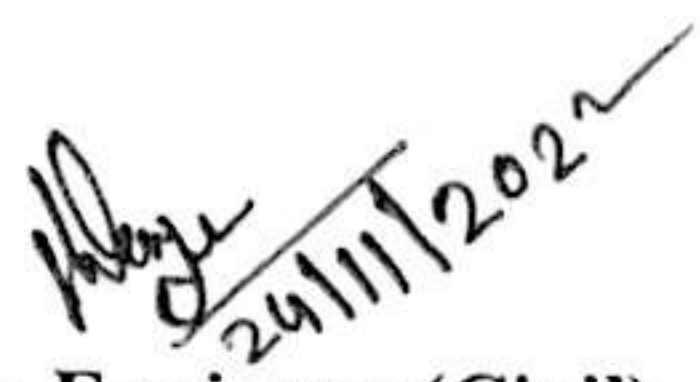
Sr. No.	Conditions	Compliance																
i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Noted. No change in mining technology and scope has been made																
ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	Noted, The year wise production data are as follows : <table><tr><th>Year</th><th>Coal Production (tons)</th></tr><tr><td>2016-17</td><td>131330.00</td></tr><tr><td>2017-18</td><td>0.00</td></tr><tr><td>2018-19</td><td>13,18,374.00</td></tr><tr><td>2019-20</td><td>7,84,941.00</td></tr><tr><td>2020-21</td><td>11,34,975.00</td></tr><tr><td>2021-22</td><td>5,11,377.00</td></tr><tr><td>2022-23 (Upto September 2022)</td><td>2,65,553.81</td></tr></table>	Year	Coal Production (tons)	2016-17	131330.00	2017-18	0.00	2018-19	13,18,374.00	2019-20	7,84,941.00	2020-21	11,34,975.00	2021-22	5,11,377.00	2022-23 (Upto September 2022)	2,65,553.81
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iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 and NOx 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.	Following four ambient air quality monitoring stations have been established in the core zone and buffer zone for PM10, PM2.5 SO2 and NOx monitoring:- 1. Water filter plant (Pr. Nagar) : W _N KOA-1 2. Sub-Station Kolar Pimpri : W _N KOA-2 3. Rest shelter Kolar Pimpri OCM : W _N KOA -3 4. Pimpri village : W _N KOA -4 Reports are regularly being submitted. Environmental Monitoring reports from April 2022 to September 2022 are enclosed with this report.																
iv)	Fugitive dust emissions (PM10 and PM 2.5) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.	Fugitive dust emissions (PM10 and PM 2.5) is being monitored at following locations: 1. Weigh bridge, 2. CHP, 3. Wani Railway siding Fugitive Dust Emission from OB dumps have been controlled significantly by developing thick green belt/vegetation cover the OB dumps. Similarly, dust emissions from other sources are being controlled by regular water spraying through installation of fixed type rain guns and mobile water tankers.																
v)	Data on ambient air quality (PM10, PM2.5 and SO2 and NOx) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Data on ambient air quality (PM 10, NOx, SOx and PM 2.5) is regularly submitted to MoEF&CC & its Regional Office The reports from April 2022 to September 2022 are enclosed with this report.																
vi)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged	In order to control excessive noise during operations regular maintenance of all HEMM as well as supply of protective gears like ear plugs and muffs are carried out. In addition, regular monitoring on every fortnight is being done. Reports from																

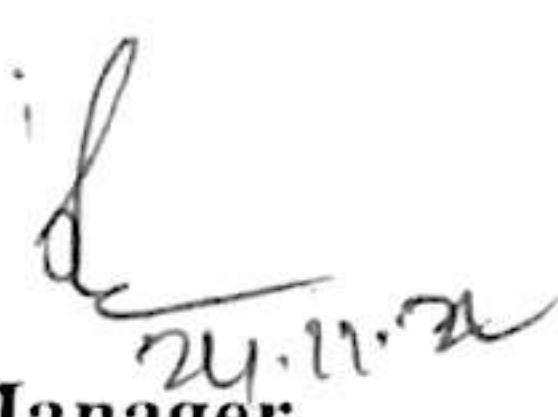
	in blasting and drilling operations, operations of HEMM, etc shall be provided with ear plugs / muffs.	April 2022 to September 2022 are enclosed with this report. Noise Quality Monitoring Station. 1) CHP : W _N KON-1 2) Pragati Nagar : W _N KON-2
vii)	Industrial waste water (workshop and waste water 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 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.	Mine pumped out water after initial sedimentation in the mine sump is collected into surface sedimentation pond for further settlement. The quality of treated effluent from sedimentation point is monitored every fortnight. Similarly, the effluents from the workshop are treated in ETP fitted with oil and grease trap and Clear-water is also regularly monitored. It may be mentioned here that there is no discharge of effluent from workshop into any surface water body.
viii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	All the vehicles which are directly or indirectly related to the mining activity are having valid PUC Certificate from the authorized agencies.
ix)	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Monitoring of environmental quality parameters is being carried out by RI-IV Nagpur, CMPDIL. A fully fledged Environmental laboratory accredited by NABL already exists at CMPDI, Nagpur with qualified Engineers along with adequate number of field staff for carrying out all the environmental monitoring of WCL projects.
x)	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. 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.	Protective health & safety gears are provided to workmen exposed to dust. The workers are regularly given training on safety & health aspects (Statutory requirement under Mines Act). Periodical medical examination is carried out for each employee once in every 5 year to detect any disease so that, appropriate action can be taken.
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.	At project level, environmental management cell is headed by Sub Area Manager and is assisted directly by project Nodal Officer (Environment). At Area level, AGM heads the cell assisted by GM (Operation) and ANO (Environment). GM (Environment) heads the Environment Department at HQ / Corporate level with a multidisciplinary team of qualified engineers, who directly report to DT, WCL.
xii)	The funds earmarked for environmental protection	The funds earmarked for environmental protection measures are not used for any other purpose. The expenditure both under


	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 Regional Office at Bhopal.	capital & revenue for the current year as well as progressive is given in the Expenditure Statement. It is regularly reported to Regional Office, MoEF & CC along with Six Monthly Report.
xiii)	The Regional Office of the Ministry located at Bhopal 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.	Six monthly reports on compliance to environmental clearance conditions are regularly submitted to RO, MoEF & CC, Nagpur & full cooperation is being extended to them as and when they visit.
xiv)	A copy of the will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	A copy of environmental clearance letter has been sent to concern Sarpanch of village Panchayat.
xv)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	Not applicable.
xvi)	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 & Forest at http://envfor.nic.in .	Complied.
3	The Ministry or any other competent authority may stipulate any further conditions for environmental protection.	Noted.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986	Noted.

5	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.	Noted.
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Sr. Survey Officer
Kolar Pimpri OCM


Sub Area Engineer (Civil)
Kolar Pimpri-Pimpalgaon Sub Area


Mine Manager
Kolar Pimpri OCM


Sub Area Manager
Kolar Pimpri-Pimpalgaon Sub Area