

Envt. Clearance Condition's Compliance, 6.00 MTA

EC for 6.00 MTA obtained vide - J-11015/189/2008-IA.II(M),
25.2.2013.**(A) Specific Conditions:**

Sl.No	Specification	Compliance
(i)	Topsoil, if any, created during the balance life of the mine, shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used within a year of its generation for mine reclamation and development of green belt.	The Top soil generated is concurrently being spread over backfilled area (32,000 cu.mt. from Jan. 14 to March 14) . Subsequently , it is biologically reclaimed and planted suitably as per standard provisions (2500 no./ha.)
(ii)	The modification of the natural drainage of Lilari Nala flowing through the ML by its proposed diversion shall be done so that it is realigned to its natural course at the mine boundary and ensure that the downstream users of the water from Lilari Nala are not affected by the proposed diversion. Any embankment constructed along the Lilari Nala shall be stabilised by vegetation.	The diversion of the Lilari nala will be taken up after competent approval from the concerned authority. The diversion will be done keeping in mind the interest of the down stream users. Further, the embankment, if any, along the diverted route will be suitably planted.
(iii)	OB generated during the balance life of the mine shall be simultaneously backfilled into the de-coated quarry area. No new external OB dumps shall be created for the OB generated in the balance life of mine.	The old OB dump (External) has already been reclaimed technically and biologically. No new OB dump is being made in expansion phase. The OB is concurrently backfilled in de-coated area. External OB dump of 55.33 ha. has already been technically and biologically reclaimed and total 1,38,250 no. plants has been planted over it.
(iv)	Monitoring and management of existing reclaimed dump sites of an area of 55.33 ha shall continue until the vegetation becomes self- sustaining. Compliance status shall be submitted to the Ministry of Environment & Forest and its Regional Office located at Bhubaneswar on yearly basis.	It is being monitored regularly. The plantation growth is satisfactory and already self sustained. Compliance Status is already being submitted in half yearly report.
(v)	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 collected shall be utilised for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted and maintained properly.	It is constructed in the mine. There are 4 no. of mine sump of capacity a.1,80,000 cu.mt., b.4,50,000 cu.mt., c.2,00,000 cu.mt. and d.1,60,000 cu.mt. The total runoff generated over the OB dump is collected in the mine sump inside the mine. This runoff is allowed to settle down for sufficient time for sedimentation of the suspended particles.. water so collected is being reused for dust suppression of mine, road, and greenbelt. The drains are being regularly de- silted and maintained.
(vi)	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 provided adequate retention period to allow proper settling of silt material.	Garland drain (Size- 3m x 3m),gradient- 1 in 20, length-1935 mt.) and sump (4 no.s, total sump Capacity is 990000 cu.mt.) of adequate capacity, keeping in view of sudden peak rainfall, has already been provided to retain the setting of the silt materials. The retention period for the water is also sufficient for siltation purpose.
(vii)	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.	The retaining wall of the OB material and of proper dimension is provided at the dumps to check surface runoff and siltation. The maximum rain fall observed in one day is 150mm. Further, the OB dumps are provided with drains which connects to the sump. The runoff water is not allowed to go outside directly.
(viii)	Crushers at the CHP shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emission from crushing operations, conveyor system, haulage roads, transfer point etc.	CHP has been closed now.

(xvi)	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 checkup for occupational diseases and hearing impairment, if any, through an agency within the district/state and the results reported to this Ministry and to DGMS.	All the work person engaged in mine is being examined once in five years to observe any contraction due to exposure to coal dust and if needed corrective measures are taken. Frequency reduced to 3 yrs. For those who are more than 45 yrs. 154 nos of employees have been medically examined in 2013-14. Periodical Medical Examination (PME) is being done by expert doctors at our well established Central Hospital which is fully equipped with all modern health check up facility.
(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 Bhubaneswar.	Digital process of entire lease area using remote sensing technique was already submitted to MOEF vide MCL/Hq./Envt./F-61/2011/1520, Dt. 2.12.11. for the year 2010. . This work is being undertaken in three years interval. The report for the year, 2013 has been submitted to MOEF/BBSR on 22.4.13. vide -MCL/Hq./Envt./F-61/2013/3453, 22.4.13. by G.M.(Envt.)
(xviii)	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forest within 6 months of grant of this letter for approval, in case expansion of ML area is not implemented.	The final mine closure plan will be submitted one year in advance before mine closure, depending upon the condition prevailing at that time.
(xix)	R&R for the balance 367 PAFs from the villages of Chharla (154), Darlipali (231), Jurabaga (88), Kirarama (05) and Kusuraloi (31) shall be resettled within an agreed time-frame, R&R norms shall be not less than that of the National R&R Policy.	It is being complied as per the approved plan/guidelines of CIL and State Government. Out of 983 persons to be employed, 947 persons have been provided employment. 244 families have been rehabilitated at Khadam Rehabilitation site/Cash Compensation and further 282 families are balance to be rehabilitated and resettled PAFs of the five villages are being resettled as per the standard guidelines. Attempts are being made to shorten the time frame for it.

B. General Conditions:

(i)	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	No change in technology and scope of work from current one will be made without approval of MOEF.
(ii)	No change in the calender plan including quantum of mineral coal and waste being produced shall be made	No change in the calender plan including quantum of mineral coal and waste being produced will be made.
(iii)	Four ambient air quality minitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM25, SO2 and NO1. Location of the stations shall be decided based on the meteorological data, topographical feaures and environmentally and ecologically and sensitive targets in consultation with the State Pollution Control Board, Monitoring of heavy metals such as Hg, As, Ni,Cd,Cr, in particulates shall be carried out at lest once in six months.	Four no.s of air monitoring station viz. Bandbahal Township, near MDTP, near Quarry no.5 and at quarry no.3 junction tiffin point, has been made based on environmentally & ecologically sensitive location criteria in consultation with State Pollution Control Board. SPM, RPM, SO2 and NOX level in the ambient air is monitored. As suggested, the monitoring of PM 10 and PM 2.5 will be taken up soon. Further, monitoring of heavy metals such as Hg., As,Ni., Cd.,Cr. in particulate matter will also be taken up shortly and will be done at least once in six months.
(iv)	Data on ambient air quality (PM10, PM25,SO2 & NOx and heavy metals such as Hg,As, Ni,Cr etc.) and other monitoring data shall be regularly submitted to the Ministry including its Regional office at Bhubaneswar 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 recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.	At present, the monitoring data of SPM, RPM, SO2 and Nox is regularly sent, once in six months to the desired places, as suggested. Further, the monitoring report of PM10, PM2.5 and heavy metals will also be sent regularly. Action is being taken get it monitored at the mine. CMPDI is monitoring the samples & their laboratories are duly recognised. The report is submitted in the half yearly 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.	Adequate measure are being taken to control the noise level within the prescribe limits. Ears plugs/ muffs are being provided to the worker engaged in blasting, drills and HEMM operation at regular interval. No. of ear plugs/muffs provided in 2013-14 is 30 no.
(vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	The effluent generated in the workshop is being treated in settling tank, oil and grease trap and in secondary settling tank from where it is recycled to raw water sump for reuse and thus achieving zero discharge. Similarly mine water effluent is also treated first, in sedimentation pond in mine quarry and then in secondary settling tank before discharge out side. The final effluent quality is monitored regularly (twice per month). The monitoring for heavy metals will be now taken up, as suggested.
(vii)	Vehicular emissions shal be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	This is under control and regularly monitored. PUC certificates of the vehicles used for transportation of coal is regularly monitored. Further, these coal loaded vehicles are always covered with tarpaulins and they are loaded to the optimum quantity only.
(viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and anlysis equipment in consulation with the State Pollution Control Board and data got analyzed through a laboratory recognized udner EP Rules, 1986	Presently the CMPDIL(A subsidiary of CIL)is doing the environmental quality parameter's monitoring work. The laboratory of CMPDIL is recognized by the CPCB

(xvi)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal Officers of CPCB and the SPCB.	It is being sent regularly at an interval of six months.
(xvii)	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities shall extended full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	We are providing full cooperation to the visiting officials of Regional office and all necessary datas etc. are provided to them, as desired.
(xviii)	The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to 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 by E-mail.	The annual Environmental Statement for each financial year is regularly submitted to the Member Secretary, SPCB, Odisha. The Form V for 2012-13 has been submitted to SPCB vide MCL/Env./Env.Stat./13/3749, Dt. 26.9.2013. Further, it is being uploaded on MCL's website under Emt./Annual Report/lb Valley CF link. Further the Form V/ annual statement and the Half yearly report for complinace to EC conditions will be sent to the Regional Office of MOEF at BBSR. by e mail



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