101-856

Envt. Clearanace 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:

SI.No	Specification	`Compliance
(i)	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.	backfilled area (21,766.00 cu.mt. from April 13 to Sep. 13) . 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 stubilised by vegetation.	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)	be simultaneously backfilled into the decoated quarry	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-coaled 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- sustaning. Compliance status shall be submitted to the Ministory of Environment & Forest and its Regional Office located at Bhubaneswar on yearly basis.	satisfactory and already self sustained. Compliance Status is already being submitted in half yearly report.
(>)	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	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 rainfal 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.	cu.mt.) of adequate capacity, keeping in view of sudden peak rainfall, has already been provided to retain the setting
(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.	

(viii)	b ti a p tti w	already closed and second one is also likely to be closed soon. However, Proper care is being taken at the CHP to control the dust. 48 Nos of misters has already been provided at the unloading point. 04 Nos of canopies have been provided to arrest the fugitive dust generated during the process.09 nos of sprinklers have been provided all along the conveyor belt to control the dust, with additional pumping arrangement. Perforated pipes are provided at all the transfer points. The conveyor is covered all along the way. 4 no. 28 KL and 2 no. 12 KL mobile tankers are in operation on the haulage road/ coal transportation roads to control fugitive dust emission. Regular monitoring is also
(ix)	Drills shall be wet operated, Roads shall be metal topped and mechanical sweepers shall be regularly deployed to clear the dust off the main approach and mineral 2 transportation roads. Water sprinkling (fixed and mist ruppe, mobile) shall be regularly done along the main haul roads.	extractor. Roads are already metal topped. 4 no. 28 KL and 2 no. 12 KL mobile tankers are in operation on the haulage road/ coal transportation roads to control fugitive dust
(x)	At the post mining stage, an area of 720.495 ha shall be afforested which includes 473 ha of backfilled area, 70 ha of safety zone, 55.33 ha of ext. OB dumps, 76.502 ha of infrastructure area, 35 ha of area afer rationalisation, and to ha outside the ML in colony, by planting native species in consulation with the local DFO/ Agriculture Department. The density of the trees shall be around 2500 plants per ha.	Ex. OB dump- 55.33 ha., B/F area- 93.80 Ha., Block blantation- 252.50 ha.) . Further 24 Km of p[lantation has been done along road side. Plantation is being done by Chattisgarh Rajya Van Vikas Nigam Ltd.Density is kept at
(xi)	A progressive Mine Closure Plan shall be implemented and OB generated shall be simultaneously backfilled in an area of 379.803 ha so as to backfill and reclaim 473 ha of decoaled quarry area and stabilsed with plantation.	OB excavated is concurrently backfilled in the de coaled
(xii)	No fly ash shall be dumped into the decoaled void without feasibility studies on long-term impacts on the adquifers and life systems and without prior approval of the Ministry.	This will be taken care off. At present, there is no such plan of using fly ash for dumping in de coaled area
(xiii)	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells i 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 it thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of minitoring.	interval. The ground water level is being measured at three dug wells at the required frequency. Const. of new peizometer will be taken up shortly for ground water monitoring. Further, the qualities of the underground water is also monitored every month by CMPDI. The detail report about the ground water level and its quality is being
(xiv)	project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatrering of mine.	cu.mt.,200000 cu.mt., 160000 cu.mt.) inside the mine is also

(xv)	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Sewage treatment Plant of capacity 1.70 MLD has already been provided in the colony which treats the domestic sewage and the treated effluent is discharged into nearby Eco pond from where it is used for various industrial purpose. The effluent generated in the workshop is being treated in three stages i.e. first in primary settling tank, then in oil and grease trap and lastly in secondary settling tank before discharge out side. Similarly mine water effluent is also treated in two stages. First, in sedimentation pond in mine quarry then in secondary settling tank before discharge out side. The final effluent quality is monitored regularly (twice per month). Further, the treated effluent is going to be recycled for industrial use very shortly. Work order has been issued and work to commence soon
(xvi)	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	All the work person engage in mine is being examined once in five year to observe any contraction due to exposure to coal dust and if needed corrective measure are taken. Frequency reduced to 3 yrs. For those who are more than 45 yrs. 149 no.s of employees has been medically examined in 2012. Periodical Medical Examination (PME) is being done by expert doctors at our well established Central Hospita which is fully equipped with all modern health check up facility.
(xvii)	use, a time series of landuse maps, based on satellite imagery (on a scale of I: 5000) of the core zone and buffer zone from the start of the project until end of mine	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 this year, 2013 has been submitted to MOEF/BBSR on 22.4.13. vide -MCL/Hq./Envt./F-
(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.	advance before mine closure , depending upon the condition prevailing at that time.
(xix)	Chharla (154), Darlipali (231), Jurabaga (88), Kirarama	employed, 947 persons has been provided employment. 244

B. General Conditions:

(i)	No change in technology and scope of working shall be	No change in tenchnology and scope of work from current
	made without prior approval of the Ministry of	one will be made without approval of MOEF.
	Environment and Forests.	· ·
(ii)	No change in the calender plan including quantum of	No change in the calender plan including quantum o
		mineral coal and waste being produced will be made.
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(iii)	estabilished 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.	tiffin point, has been made based on environmentally & ecologically sensative 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.
(iv)	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	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)	levels below 85 dBA in the work environment. Workers	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 2012 is 85 no.
(vi)	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	
(vii)		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 anslysis equipment in consustation with the State Pollution Control Board and data got analyzed through a laboratory recognized udner EP Rules, 1986	environmental quality parameter's monitoring work. The laboratory of CMPDIL is recognized by the CPCB
(ix)	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	In 2012-13, 382 no.s of protective respiratory devices have been provided to the work person engaged in dusty area. They are being trained and informed on use of protective respiratory devices. All the work person engaged in mine is being examined once in five year to observe any contraction due to exposure to coal dust and if needed corrective measure are taken. Frequency reduced to 3 yrs. For those who are more than 45 yrs. 149 no.s of employees has been examined in 2012.

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(x)	qualified personnel shall be set up under the control of a	Environment management cell has been established in project as well as area and head quarter level. One Sr. Manager (E-6) level officer is heading the project environment cell and reporting to the Project Officer directly.At Hq. level, one G.M.(Envt.) is heading the company's environment dept. and reporting to Director(T, P&P)
(xi)	The funds earmarked for environmental protection measures shall be kept separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneswar.	protection measures. For 2012-13, Rs.281.62 lakhs has been spent on environment prtection related expenditure.
(xii)	_ _	· · · · · · · · · · · · · · · · · · ·
(xiii)	A copy of the environmental clearance letter shall be marked to concerned 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 the company's website.	Sarpanch office namely Bandbahal, Sarandamal and Kusraloi on 1.3.13.(all three). Further, it has also been placed on M.C.L.'s website under Environment/Environmental Clearrance link.
(xiv)	A copy of the clearance letter shall be displayed on the website of the concerned Sate Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	
(xv)		
(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.	

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(xvii)	· · · · · · · · · · · · · · · · · · ·	
(xviii)	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	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 Envt./Annual Report/lb Valley CF link. Further the Form V/ annual statement and the Half yearly report for complinace

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