

Compliance Report on Environmental conditions/safeguards laid down by MoEFCC

Ref. no. J-11015/243/2014-1A.II (M) dated: - 22.08.2014 Krishnashila Project

A. SPECIFIC CONDITIONS	
i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	<ul style="list-style-type: none"> • The permission for 5 MTPA coal production has been given by MOEFCC vide letter no J-11015/243/2011-IA.II(M) dated 22.08.2014. The maximum production in a year is limited to the prescribed limit i.e. 5 MT.
ii. No mining operations shall be undertaken in the forest land until clearance has been obtained from Competent Authority.	<ul style="list-style-type: none"> • Total forest area needed for project is 720.89 Ha. for which Forest clearance has already been obtained. • The details of Forest Clearances are- <ul style="list-style-type: none"> (i) 235.99 Ha. vide letter No. 8-64/2004-FC dated 06.07.2006 (ii) 258.00 Ha. vide letter No. 8-5/94-FC dated 23.05.1996 (iii) 65.50 Ha. vide letter No. 8-298/87-FC dated 30.07.1990 (iv) 161.40 Ha. vide letter No. S.O. SO (E) dated 24.01.1975 • The mining operations are being done in the forest land after obtaining clearance from Competent Authority.
iii. The water body (void) should be backfilled so that at the end of the mining there would be no water body and whole area will be reclaimed.	<ul style="list-style-type: none"> • This condition may be allowed for condition no. XV.
iv. It was observed that the soil and water may be contaminated with Mercury. As a matter of abundant precaution, the EAC desired that decontamination measures should be taken to reduce the mercury pollution in the area. Indian Medical Association (IMA) should be engaged to ascertain the exact numbers of people/villagers affected with Mercury, if any.	<ul style="list-style-type: none"> • Regular studies of water sample have been done for Hg levels. All the reports are showing Hg levels negligible. National Institute of Occupational Health, Ahmedabad has also done a study on occupational health. Interim report showing no Hg contamination. Final report will be received soon.
v. Adequate measures need to be taken so that the emissions are within the prescribed limit.	<ul style="list-style-type: none"> • Regular check-up and monitoring of HEMM is being done to maintain emissions within the prescribed limit.
vi. Monitoring the ambient air quality should be carried out by including new parameters viz. PM₁₀ and PM_{2.5}.	<ul style="list-style-type: none"> • Monitoring the ambient air quality is being carried out in NABL accredited lab of CMPDI including new parameters viz. PM₁₀ and PM_{2.5}.
vii. The commissioning of integrated ETP for Krishnashila Project should be completed by December,2014 and a compliance report be submitted to RO, MOEFCC.	<ul style="list-style-type: none"> • At present no water is going out of mine premises. One mini ETP has already been constructed and it is meeting our present requirement. For our future requirements one new integrated ETP is proposed to be constructed for which work order has already been issued.


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viii. The Coal Handling Plant (CHP) which is in the process of installation should be completed by December, 2014 and a compliance report be submitted to RO, MoEFCC.	<ul style="list-style-type: none"> CHP is under construction and likely to be commissioned by 31.03.2017 as per rescheduled programme. However crushed coal is being despatched through Belt Pipe Conveyor and rail. Further one Surface Miner has been introduced for producing crushed coal of (-) 100 mm size. 											
ix. Coal shall be transported by tubular conveyor belt directly to the power plant and road transport of coal shall be totally eliminated.	<ul style="list-style-type: none"> Tubular conveyor system to carry coal to Linked consumer M/s Renusagar (Hindalco) has been installed and in operation from 4th August'2015. The dispatch through road has been stopped. Only a negligible amount of coal to small consumers through e-auction is allowed by road. 											
x. Proponent should expeditiously take up the matter with Coal India to create an Environment Cadre for future employment in Coal India and its subsidiaries.	<ul style="list-style-type: none"> NCL has already created the environmental Cadre in all of its projects. The name, designation and qualification of the executives in Environment Department of the project are- <table border="1"> <thead> <tr> <th>Name</th> <th>Designation</th> <th>Qualification</th> </tr> </thead> <tbody> <tr> <td>Rakesh Kumar</td> <td>Sr.Mgr(Mining)</td> <td>B.Tech (Mining)</td> </tr> <tr> <td>Omveer Singh</td> <td>Assistant Mgr (Env.)</td> <td>M.Tech (Env.)</td> </tr> </tbody> </table>	Name	Designation	Qualification	Rakesh Kumar	Sr.Mgr(Mining)	B.Tech (Mining)	Omveer Singh	Assistant Mgr (Env.)	M.Tech (Env.)		
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Rakesh Kumar	Sr.Mgr(Mining)	B.Tech (Mining)										
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xi. Transportation of coal in pit by dumper. Surface to siding by conveyor belt and siding to loading by Rly. Siding/Truck (Within one month all coal shall be transported through pipe conveyor system to Power plant directly). This is the 1 st of this kind in coal sector in India. The coal handling and evacuation at present is through road transport to HINDALCO to Power Plant at Renusagar and railway to various power plants in India. It is stated that of the 5MPTA, 3MPTA by tube conveyor and 2MPTA by wagons (crushed coal from CHP) to HINDALCO (linkage) which is about 7km from the mine. The construction of high capacity silo loading system is in process.	<ul style="list-style-type: none"> Tubular conveyor system of 3.50 MTPA capacity to carry coal to Linked consumer M/s Renusagar (Hindalco) has been installed and in operation from 4th August'2015. 											
xii. The production shall be within the same Mining Lease area.	<ul style="list-style-type: none"> The production is within the same Mining Lease area. 											
xiii. The OB shall be completely re-handled at the end of the mining.	<ul style="list-style-type: none"> It will be complied as per Mine Closure Plan. The present status of reclamation is- <table border="1"> <thead> <tr> <th>Dump</th> <th>Nos.</th> <th>Area</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td rowspan="2">External</td> <td>D1</td> <td>62.0 Ha</td> <td>Reclaimed</td> </tr> <tr> <td>D2</td> <td>68.0 Ha</td> <td>Active</td> </tr> </tbody> </table>	Dump	Nos.	Area	Status	External	D1	62.0 Ha	Reclaimed	D2	68.0 Ha	Active
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	Internal																	
	D3	53.0 Ha	Active															
	D4	18.0 ha.	Active															
xiv. The depth of internal void shall be 35m from the ground level and should be adequate for fishery purpose	<ul style="list-style-type: none"> The depth of internal void will be 35 - 40m from the ground level which will be adequate for fishery purpose. 																	
xv. The final void depth will not be more than 40m. The void area will be converted into water body. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.	<ul style="list-style-type: none"> The final void depth will be kept less than 40m. The void area will be converted into water body. The rest of the area will be back filled up to the ground level and covered with about a meter thick top soil and put to use. 																	
xvi. Garland drains be provided.	<ul style="list-style-type: none"> Garland drains have been provided. it is a continuous process. As the mine advances, future Garland drains will be constructed. 																	
xvii. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	<ul style="list-style-type: none"> There is no river/nallah flowing near or adjacent to the mine. One reservoir (Govind Vallabh Pant Sagar) is at a distance of 3-4 Kms from the Project separated by villages, railway line, road and open area. 																	
xviii. The land after mining shall be brought back for agriculture purpose.	<ul style="list-style-type: none"> Only 10.29 Ha. of tenancy land has been taken by the project which will be brought back to the original state after closure of Project. 																	
xix. Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.	<ul style="list-style-type: none"> The mine is almost dry. However whatever water is being generated during mining operation that is being used for dust suppression and horticulture purpose. At present, there is no need to discharge water into any outside water body. 																	
xx. The CSR cost should be Rs 5 per Tonne of Coal which should be adjusted as per the annual inflation.	<ul style="list-style-type: none"> The CSR fund is being generated and utilised as per CSR Rule under Companies Act 2013 and as per CSR policy of Coal India Limited. The year-wise expenditure on CSR by the project is given as under- <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Year</th> <th>Expenditure (in Lac Rs.)</th> </tr> </thead> <tbody> <tr> <td>2010-11</td> <td>17.00</td> </tr> <tr> <td>2011-12</td> <td>35.39</td> </tr> <tr> <td>2012-13</td> <td>0.00</td> </tr> <tr> <td>2013-14</td> <td>103.58</td> </tr> <tr> <td>2014-15</td> <td>54.88</td> </tr> <tr> <td>2015-16</td> <td>89.00</td> </tr> </tbody> </table>				Year	Expenditure (in Lac Rs.)	2010-11	17.00	2011-12	35.39	2012-13	0.00	2013-14	103.58	2014-15	54.88	2015-16	89.00
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xxi. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	<ul style="list-style-type: none"> Employees working in core area are provided with dust masks. In addition to it, proper water sprinkling is done by water sprinklers to suppress fugitive dust. 																	
xxii. Dust mask to be provided to everyone working in the mining area.	<ul style="list-style-type: none"> All Employees working in mining area are provided with dust masks. 																	
xxiii. The supervisory staff should be	<ul style="list-style-type: none"> Instructions in this regard have been given to all 																	

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