

Ref/MCL/BOCP/Envt./Half yearly Report/2022-23/ 193

Dt. 25 .05.2022

To,
The Addl Principal Chief Conservator of Forest,
Eastern Regional Office,
Ministry of Environment & Forest,
A/3, Chandrasekharapur,
Bhubaneswar-751023.

Sub: - Half yearly report on environmental clearance condition for the period from Oct'2021 to Mar'2022 of Balram OCP of Hingula Area, MCL.

Dear Sir,

Please find enclosed here with the half yearly progressive report on environmental clearance condition for the period from **Oct'2021 to Mar'2022** in respect of Balram OCP of Hingula Area, MCL.

Thanking You.

Yours faithfully,


Project Officer
Balram OCP, MCL

Copy to,

1. The Director, EIA Monitoring Cell, MoEF, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi – 110 003
2. The GM (Envt.),MCL
3. The Regional Officer, M/s OSPCB, Angul
4. The Staff officer (Envt.), HA/Envt. In-charge, BOCP

**HALF YEARLY PROGRESS REPORT
ON
IMPLEMENTATION OF
ENVIRONMENTAL CLEARANCE CONDITION
BY MoEF**

(PERIOD FROM Oct'2021 TO Mar'2022)

**BALRAM OPEN CAST PROJECT
HINGULA AREA
MAHANADI COALFIELDS LIMITED**

SIX MONTHLY PROGRESS REPORT

ON

THE IMPLEMENTATION OF ENVIRONMENTAL CLEARANCE CONDITIONS BY MoEF (FOR THE PERIOD OCT'2021 TO MAR'2022)

Name of the Project: **Balram Open Cast Project.**

No.& Date of MoEF clearance letter:-**J.11015 / 4 / 87-IA-C ,Dated:- October 24th,1990.**

CN No.	DETAILS OF CONDITIONS	STATUS OF IMPLEMENTATION OF THE CONDITION
(i)	The emission levels should be maintained below the prescribed standard limit. In the event of levels of emissions exceeding the limit, the particular operation should be stopped and should not be started until the levels are brought back within permissible limit.	The HEMM is maintained & checked regularly. We have well equipped workshop & tech staff including Engineers to look after maintenance and repairing of HEMM (Excavation Department). Drilling & blasting operation in coal has been minimized by introduction of surface miner. The AAQ is monitored at 4 nos locations. The details of last six month air quality data is enclosed for reference in Annexure.
(ii)	The quality of effluents finally discharged into the main water course should confirm to the standards prescribed by the Central/State Pollution Control Board. Regular monitoring of quality of effluents should be done at different points and recorded data furnished to this Ministry quarterly.	The workshop effluent is treated through ETP(Capacity 300 KLD)and the treated water is reused again for industrial purposes. The effluents are analyzed monthly and the parameters are found to be within permissible limit. Summary of recorded data of last 6 months are enclosed herewith in Annexure for reference. Balaram OCP is a Zero Discharge Mine.

(iii)	The ultimate slopes of external dump should be maintained at a maximum of 28 degrees.	<p>At present internal OB dumping (i.e. Back filling) is going on. The old external OB dumps are stable and planted with indigenous trees. The slopes are also stable and maintained at a max of 28 degree. The last five years plantation and plant species details are given below: Type of species: - Neem,Mahaneem,Amla,Harida ,Bahada,Gambhari,Karanja,Sisris,Kataki, Kayan,Sisoo,Teak,Radha Chuda,Krishna Chuda etc.</p> <table border="1" data-bbox="824 289 1498 646"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">OB dump / BF/Slope/Vacant Area</th> </tr> <tr> <th>Area in Ha</th> <th>No of plantation</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>2.0</td> <td>5,000</td> </tr> <tr> <td>2017-18</td> <td>1.0</td> <td>2,500</td> </tr> <tr> <td rowspan="2">2020-21</td> <td>7.15</td> <td>2880</td> </tr> <tr> <td>4.2 RKM (Avenue Plantation)</td> <td>6720</td> </tr> <tr> <td>2021-22</td> <td>10.625</td> <td>17,000</td> </tr> </tbody> </table>	Year	OB dump / BF/Slope/Vacant Area		Area in Ha	No of plantation	2016-17	2.0	5,000	2017-18	1.0	2,500	2020-21	7.15	2880	4.2 RKM (Avenue Plantation)	6720	2021-22	10.625	17,000
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(iv)	The forest land use for the proposed activity should be restricted to 85.01 ha only. No change in land use plan as submitted to this Ministry vide letter no. 43011/18/85-CPA dated 21.9.90 should be made without the approval of this Ministry.	The forest land will not exceed 85.01 Ha. There will be no change in land use plan as submitted to the ministry vide letter No.43011/18/85-CPA Dt.21.09.90. Till date the total forest land used for the mining purpose is 53.85 ha only.																			
(v)	The Rehabilitation Package for the displaced person should be in conformity with the Government of India decision on rehabilitation.	<p>The rehabilitation package provided for the displaced person is with conformity to Govt of India norms and also confirming to the guideline of Govt. of Odisha rehabilitation package-2006. R & R status as on 31.03.2022 is as follow;</p> <p>Rehabilitation status:</p> <p>1. Employment given so far up to 31.03.2022=3687 persons</p> <p>Resettlement Status:</p> <p>1. PAF's opt for plot at resettlement site = 365 2. PAF's received cash compensation in lieu of plot = 767</p>																			
(vi)	The reclamation of mined areas shall be implemented to make it compatible with the pre-mining land use pattern. The progress in this regard should be made available to this Ministry half yearly for review. The strategies for release of land should be furnished within six months.	The internal dumping is technically reclaimed by bringing it into surface level and plantation is being done on it regularly. Total area excavated till 31.03.2022 is 504.11 Ha and area backfilled is 331.41 Ha. The total area planted on the Backfilled area/OB dump is 122.98 Ha total no. of saplings planted is 3,74,758.																			
(vii)	The right of way for the proposed MGR should not fall on any Reserve Forest area.	Will be complied as and when required.																			
(viii)	Noise levels should be maintained within the permissible limit, to avoid occupational health hazard to the persons working within the plant.	Noise levels are maintained within the permissible limit. The summary of recorded data of last 6 months is enclosed herewith for your reference in Annexure.																			

(ix)	All other pollution control measures listed in the EMP should be strictly implemented as per schedule.	<p>Dust suppression of the mine is being done at various points by spraying water through mobile water tankers as mentioned below:</p> <p>HAUL ROAD: 28 KL 3 nos. & 1 Nos 50 T dumper converted to Mobile water sprinkler. Water tankers fitted with pumps for sprinkling of water on haul road and mines area are working in three shifts round the clock.</p> <p>Fog Canon: 2 No. of mobile Fog canons is deployed and 08 nos of trolley mounted fog canons for the dust suppression in coal stock, railway siding, haul road and coal corridor.</p> <p>CHP:4* 400 TPH CKTs are in operation and are being provided with mister for spraying of water at the crusher chamber and also sprinklers are provided all along the conveyors. And two nos. high capacity 360 degree fixed type sprinklers are being installed for dust suppression in CHP premises. (N.B.- CHP is not operated since 2020)</p> <p>Railway Siding: 03 nos. of trolley mounted fog canons & 15 nos. of fixed sprinkler are deployed at the railway sidings for control of fugitive dust emission.</p>												
(x)	The depth of the water bodies must be kept to the minimum and approach slopes to the water should be made gentle to enable the water for fishery utilization.	This will be implemented during the mine closure period.												
(xi)	Regular safety audit should be done for the fire hazards on and other major accident in the workshop.	Safety audit are being done for avoiding accidents in workshop and mine.												
(xii)	The capacity of the project shall not be increased without prior environment clearance from this Ministry.	<p>Till date the Project has not exceeded the approved capacity of 8 MTY coal production. The details of last four years production are given below;</p> <table border="1" data-bbox="824 1234 1502 1491"> <thead> <tr> <th>Year</th> <th>Coal Production(MTY)</th> <th>Approved capacity</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>3.632</td> <td rowspan="4">8 MTY</td> </tr> <tr> <td>2019-20</td> <td>5.233</td> </tr> <tr> <td>2020-21</td> <td>6.269</td> </tr> <tr> <td>2021-22</td> <td>6.526</td> </tr> </tbody> </table>	Year	Coal Production(MTY)	Approved capacity	2018-19	3.632	8 MTY	2019-20	5.233	2020-21	6.269	2021-22	6.526
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(xiii)	A separate Environmental Management Cell with suitably qualified people to carry out various functions relating to environmental management should be set up under the control of senior technical person, who will directly report to Chief Executive. A laboratory facility should be set up for collection and analysis of samples.	A separate environment management cell headed by D(T/ P&P), MCL has been established in MCL and suitable qualified senior executives at HQ & area level are being posted to look after the envt. dept. Also qualified environmental engineers have been posted at the project level exclusively to look after the environmental functionaries.												

(xiv)	Adequate fund provision (capital and recurring expenditure) provided towards environmental control measures should not be diverted for any other purpose.	<p>The fund for environment protection is not diverted for any other purpose & is utilized for environmental purpose only. The expenditure towards environmental control measures details during the year 2021-22 are given below.</p> <table border="1" data-bbox="824 180 1471 583"> <thead> <tr> <th data-bbox="829 180 1263 254">Head</th> <th data-bbox="1263 180 1466 254">Expenditure (Rupees)</th> </tr> </thead> <tbody> <tr> <td data-bbox="829 254 1263 289">Tree plantation</td> <td data-bbox="1263 254 1466 289">90,83,367.33</td> </tr> <tr> <td data-bbox="829 289 1263 325">Environmental Monitoring</td> <td data-bbox="1263 289 1466 325">55,26,216.63</td> </tr> <tr> <td data-bbox="829 325 1263 361">Consent fees</td> <td data-bbox="1263 325 1466 361">30,00,000.00</td> </tr> <tr> <td data-bbox="829 361 1263 396">Road Repairing</td> <td data-bbox="1263 361 1466 396">1,24,415.77</td> </tr> <tr> <td data-bbox="829 396 1263 506">Other environment expenses (Catch/Garland drain, dust suppression)</td> <td data-bbox="1263 396 1466 506">78,82,315.43</td> </tr> <tr> <td data-bbox="829 506 1263 541">Water Tax</td> <td data-bbox="1263 506 1466 541">81,03,434.00</td> </tr> <tr> <td data-bbox="829 541 1263 577">Total</td> <td data-bbox="1263 541 1466 577">3,37,19,749.16</td> </tr> </tbody> </table>	Head	Expenditure (Rupees)	Tree plantation	90,83,367.33	Environmental Monitoring	55,26,216.63	Consent fees	30,00,000.00	Road Repairing	1,24,415.77	Other environment expenses (Catch/Garland drain, dust suppression)	78,82,315.43	Water Tax	81,03,434.00	Total	3,37,19,749.16
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