



MAHANADI COALFIELDS LIMITED

Office of the Project Officer
HINGULA OCP, HINGULA AREA
PO: Gopal Prasad, Angul, Orissa – 759103

Ref/MCL/HOCP/Envt./Half yearly Report/2022-23/ 978

Dt. 18.05.2022

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

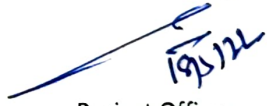
Sub: - Half yearly report on environmental clearance condition for the period from Oct'2021 TO Mar'2022 of Hingula OCP of Hingula Area, MCL.

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 Hingula OCP of Hingula Area, MCL .

Thanking You.

Yours faithfully,


Project Officer,
Hingula 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, HOCP

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

(PERIOD FROM Oct'2021 TO Mar'2022)

**HINGULA 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: - **Hingula Open Cast Project.**

No. & Date of MOEF clearance letter:-**J.11015 / 39/96-IA-II, Dated:-January 06, 1997.**
J.11015 / 136/2007-IA-II (M), Dated:-October 31, 2007.
J-11015/240/2008-I.A.II (M), Dated :- October 28, 2015.

2018. SPECIFIC CONDITION:

CN No.	DETAILS OF SPECIFIC CONDITIONS	STATUS OF IMPLEMENTATION OF THE CONDITION										
1.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Maximum Production will not exceed the limit prescribed in the EC.The abstract of coal production Vs approved capacity for last 3 years are given below: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Year</th> <th>Coal Production (Mty)</th> <th>Approved capacity (Mty)</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>6.581`</td> <td rowspan="3" style="text-align: center;">15</td> </tr> <tr> <td>2020-21</td> <td>6.352</td> </tr> <tr> <td>2021-22</td> <td>7.735</td> </tr> </tbody> </table>	Year	Coal Production (Mty)	Approved capacity (Mty)	2019-20	6.581`	15	2020-21	6.352	2021-22	7.735
Year	Coal Production (Mty)	Approved capacity (Mty)										
2019-20	6.581`	15										
2020-21	6.352											
2021-22	7.735											
2.	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.	Will be complied										
3.	All safety measures shall be taken as per Coal Mining Regulation Act, 1957 & related Circulars.	The condition has been complied.										
4.	The environmental clearance is subject to obtaining prior clearance from wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable.	Site specific wildlife conservation plan has been approved by PCCF (WL), BBSR on 18.11.15.										
5.	Grant of environmental clearance does not necessarily implies that the wildlife clearance shall be granted to the project and that their proposals for wildlife clearance shall be considered by the respective authorities on their merits and decision taken.	Site specific wildlife conservation plan has been approved by PCCF (WL), BBSR on 18.11.15.										
6.	The investment made in the project, if any, based on environmental clearance so	The condition has been complied.										

	granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest & Climate Change shall not be responsible in this regard in any manner.	
7.	Coal transportation to consumers be made by rail mode so as to reduce the dust pollution. Coal transport from mine to Washery and siding will be by pipe conveyor and conveyor and wagon loading through silo, as proposed by the PP. This arrangement will be ready within 3 (three) yrs and no road transport of coal after this period.	The coal transportation to consumers is being made by rail mode as per availability of rail. But Due to delay in receipt of stage II forest clearance and frequent obstruction by local villagers the work of pipe conveyor and SILO could not be completed on scheduled time. Forest clearance has been obtained vide letter Dtd. 19-01-2018. The work of construction of Pipe conveyor and SILO is under progress and 98.79% of work has been completed as on 31.03.2022 in 1 st phase and 2 nd phase tender has been floated, bid opening under process. Coal transportation by road through trucks and tippers. The proposed arrangement of Coal transport from mine to washery and siding will be done by pipe conveyor and conveyor and wagon loading through SILO as mentioned in EC will take two more years to commission and for the same amendment in EC has been applied vide proposal no. IA/OR/CMIN/100723/2015.
8.	Fog Cannons/Atomizers be adopted to minimise dust pollution.	1 No. of mobile fog canon is deployed for the dust suppression in haul roads and CT roads. 06 no of trolley mounted fog canons are deployed for coal stock yard.
9.	Use of dust extractor in drill machines/Wet Drilling be resorted to.	All the drills working in mine is fitted with wet drilling arrangement/dust extractor.
10.	Sufficient Green Belt be provided.	Sufficient Green Belt will be provided as per Environmental Management plan. Till date total area planted is 42.3 Ha of OB/Slope/backfilled/block and 3.375 running km. And total nos. Of plantation is 93,617 nos.
11.	Exclusive Road Corridor for coal transportation from Hingula to NH23 be provided.	Exclusive Road Corridor for coal transportation from Hingula to NH23 has been provided.
12.	All internal CT roads be constructed.	All internal CT roads have been constructed and concreted with a length of 7.770 km.
13.	There shall be no external OBD internal dump will be brought to ground level and final mine void will of be within 40 m depth.	For the expansion project there will not be any external OB dump, the internal dump will be brought up to ground level and final mine void level will be within 40 m depth.

14.	Coal transportation in pit by Tippers, Surface to Siding by Pit head to Washery (7.0 Km), Washery to SILO (900 m) by conveyor and loading at siding by rail wagon.	Condition will be Complied.								
15.	The production shall be within the same Mining Lease area.	Production will be done within the mining lease area only.								
16.	The OB shall be completely re-handled at the end of the mining and will be back filled up to the ground level and covered with about a meter thick top soil and put to use. The land after mining shall be brought back for agriculture purpose.	The condition will be complied.								
17.	Garland drains be provided.	The garland drain is provided and it is desilted & properly maintained and will be extended as per requirement of expansion project.								
18.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Appropriate embankment has been provided all along the side of the nallah flowing near or adjacent to the mine.								
19.	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.	<p>The CSR expenditure will be done 2 % of the profit or Rs 5 per Tonne. Expenditure of Hingula Area for the last 3 years is as follows</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Expenditure (Lakhs)</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>407.31</td> </tr> <tr> <td>2020-21</td> <td>227.57</td> </tr> <tr> <td>2021-22</td> <td>257.32</td> </tr> </tbody> </table>	Year	Expenditure (Lakhs)	2019-20	407.31	2020-21	227.57	2021-22	257.32
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20.	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Personal Protective Equipments is provided to all the workers working in the Core area.								
21.	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Supervisory staff under the Safety Dept is held responsible for ensuring compulsory regarding wearing of dust mask in the core area.								
22.	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.	<p>Periodical Medical examination of every worker is done at 5 years interval.</p> <p>For workmen above 45 years age group, the PME is done in 3 years interval.</p> <p>Occupational health cell is established.</p> <p>Well equipped dispensary with staff is also established in Central colony.</p> <p>Workers showing abnormal symptoms are identified and treated accordingly. The abstract of number of employees undergone PME in last 3 years are given below.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>No of employees undergone PME</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>344</td> </tr> <tr> <td>2020</td> <td>89</td> </tr> <tr> <td>2021</td> <td>120</td> </tr> </tbody> </table> <p>People working in the core area will be periodically tested for the lung diseases.</p>	Year	No of employees undergone PME	2019	344	2020	89	2021	120
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2020	89									
2021	120									

23.	The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.	<p>The condition has been complied with.</p> <p>Till date total area planted is 42.3 Ha of OB/Slope/backfilled/block and 3.375 running km. And total nos. Of plantation is 93,617 nos. Plantation details for the recent years is as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Area (Ha)</th> <th>No of plants</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>2.125</td> <td>5200</td> </tr> <tr> <td>2017-18</td> <td>1.32</td> <td>3300</td> </tr> <tr> <td>2020-21</td> <td>0.4</td> <td>500</td> </tr> <tr> <td></td> <td>0.625RKM (Avenue Plantation)</td> <td>1000</td> </tr> <tr> <td>2021-22</td> <td>6</td> <td>2400 <i>Species-Bamboo</i></td> </tr> </tbody> </table>	Year	Area (Ha)	No of plants	2016-17	2.125	5200	2017-18	1.32	3300	2020-21	0.4	500		0.625RKM (Avenue Plantation)	1000	2021-22	6	2400 <i>Species-Bamboo</i>
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2021-22	6	2400 <i>Species-Bamboo</i>																		
24.	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.	The embankment constructed along the nallah shall be of suitable dimensions and critical patches shall be strengthened by stone pitching and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.																		
25.	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.	<p>The external OB dump has been stabilized and planted with native species. The monitoring of OB dump is done in regular basis.</p> <p>For expansion project the OB dump management will be done and the condition will be complied.</p>																		
26.	OB shall bestacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dumpshall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned Regional office on yearly basis.	OB is stacked at the earmarked OB dumpsite and the slope of the dump is less than the 28°. For the expansion project two external OB dump site will be made with ultimate slope not exceeding 28° and compliance status will be submitted to Regional Office, MoEF & CC on yearly basis.																		
27.	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 utilised 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 area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper	The condition has been complied with.																		

	settling of silt material.	
28.	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.	Retaining wall at the toe of the dump has been construction taking into consideration of rainfall data. The length and height of the retaining wall are 900 m and 3 feet respectively fulfilling the present requirement and for expansion project this will be maintained as per requirement.
29.	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.	In the year 2021-22, more than 99% of coal is produced through eco-friendly surface miner. Presently the CHP is not in used. For expansion project, if CHP is required and it will be operated fulfilling this condition.
30.	Drills shall be wet operated.	All the drills working is fitted with wet drilling arrangement/dust extractor.
31.	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed allalong the major approach roads.	Maintenance of all types of roads with in the mine is done at regular intervals to avoid creation of ruts and pot holes.
32.	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.	The condition has been complied with.
33.	A Progressive afforestation plan shall be implemented covering an area of 1049.36 Ha at the end ofmining, which includes reclaimed external OB dump area (17.34 ha) and internal OB dump area (870 ha) and Green belt (79.87 ha) by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall bearound 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	The Progressive Afforestation plan will be implemented covering an area of 1049.36 ha. Till date total area planted is 42.3 Ha of OB/Slope/backfilled/block and 3.375 running km. And total nos. of plantation is 93,617 nos.
34.	An estimated total 1090.08 Mm ³ of OB will be generated during the entire life of the mine. There will be two temporary external dump having 65.66 Mm ³ 08 in covering area of 163.00 ha on coal bearing area which will be re-handled back into internal dump during mine life only. Out of which 1024.42 Mm ³ of OB will be dumped in one internal OBDumps incovering area 1217.74 Ha of land. The OB dump height	The condition will be complied and the compliance status will be submitted to Regional Office, MoEF & CC on yearly basis.

	is upto 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&CC and its Regional Office on yearly basis.	
35.	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Necessary restoration and reclamation plan will be prepared for productive and sustainable use of land.
36.	Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Forest department is entrusted with compensatory Afforestation in lieu of Forest land diverted for the non-forest purpose, a sum of Rs. 2,11,02,000.00 has been deposited in CAMPA fund for this purpose.
37.	The mining should be phased out in sustainable manner. No extra overburden dumps are permitted. No groundwater shall be used for mining operations.	No extra OB dump will be made and the OB will be backfilled simultaneously. For any purpose, water will be taken from the mine sump.
38.	No groundwater shall be used for mining operations.	The condition has been complied with. For any purpose, water will be used from the mine sump.
39.	Of the total quarry area of 1409.54 Ha the backfilled quarry area of 870 Ha shall be reclaimed with plantation and a void of 539.54 Ha at a depth upto 40 m which is proposed to be converted into a water body. Shall be gently sloped and the upper benches shall be terraced and stabilised 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.	The condition will be complied.
40.	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new 8 piezometers. 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 thus collected shall be submitted to the Ministry of Environment, Forest & Climate Change and the Central Pollution Control Board quarterly within one month of monitoring.	The network of Piezometers has been completed and monitoring is being done at regular interval by CMPDIL, Bhubaneswar and the data is being submitted to Ministry of Environment, Forest & Climate Change and the Central Pollution Control Board at Regular intervals.
41.	The Company shall put up artificial ground water recharge measures for augmentation	Artificial ground water recharge is underway through storing of water in mine sump. Rain water

	<p>of ground water resource incase monitoring indicates a decline in water table. The project authorities shall meet water requirement of near by village(s) incase the village wells go dry due to dewatering of mine.</p>	<p>harvesting structures has constructed in the colony and in other service buildings. The Details of artificial ground water recharge completed till date is as follows:</p> <ol style="list-style-type: none"> 1. No. of pond deepening – 11 Nos. 2. Construction of open well for RWS&S to village Jamunali. <p>The details of Rain Water harvesting as given below: Roof top rainwater harvesting pit has been constructed in following places in Balram colony.</p> <ol style="list-style-type: none"> 1. Guest House – 2 Nos 2. N’Joy club – 2 Nos 3. Utkalika – 2 Nos 4. DAV school - 1 No <p>The requirement of nearby villages in dry season is through an amount of Rs 314.16 lakhs for supply of drinking water to nearby villages.</p>								
42.	<p>Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for work shop and CHP wastewater.</p>	<p>STP is not available as no separate colony is being provided for Hingula OCP. ETP – 270 M³/day capacity is existing, which is adequate as per requirement, after the treatment the water is being reused for vehicle washing. ETP is regularly cleaned and maintained properly.</p>								
43.	<p>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 check-up for occupational diseases and hearing impairment, if any, through an specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.</p>	<p>Periodical Medical examination of every worker is done at 5 years interval. For workmen above 45 years age group, the PME is done in 3 years interval. Occupational health cell is established. Well equipped dispensary with staff is also established in Central colony. Workmen showing abnormal symptoms are identified and treated accordingly and in future the same workmen will be posted safe place away from dust generating source. The abstract of number of employees undergone PME in last 3 years are given below.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>No of employees undergone PME</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>344</td> </tr> <tr> <td>2020</td> <td>89</td> </tr> <tr> <td>2021</td> <td>120</td> </tr> </tbody> </table>	Year	No of employees undergone PME	2019	344	2020	89	2021	120
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44.	Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government which ever is higher.	Compensation package offered to family as per Odisha State Compensation Package- 2006 guidelines, which is better than existing National & CIL R&R policy. The details is as follows: Rehabilitation status: 1. Employment given so far up to 31.03.2022 = 1419 Resettlement Status: 2. PAF's opt for plot at resettlement site = 192 3. PAF's received cash compensation in lieu of plot = 1300
45.	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&CC and its concerned Regional office.	Satellite images are being taken regularly by M/s CMPDIL. The latest satellite imagery has been submitted to the Regional office, MoEF; vide letter no-280, dt.08.04.2021
46.	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	The final Mine Closure Plan has been approved by MCL Board in the 130th meeting of Board of Directors on dated 22nd June 2011. The Corpus Fund for Hingula expansion project under Escrow Account has been deposited in Account no: 365203800000318 and the balance as on 31.03.2022 is Rs. 84.12 Crores.
47.	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	CSR activities are taken after the consultation with the Panchayats of the local villages and administration. CSR activities will be raised by Panchayats of villages and respective activities will be carried out by MCL CSR cell after consultation with the District Administration.
48.	Corporate Environment Responsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors. b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. c) The hierarchical system or Administrative Order of the company to deal with environmental. Issues and for ensuring compliance with the environmental clearance conditions	Coal India as a whole has laid down an Environmental Policy for implementation in different subsidiaries and also SOP has been prepared in this regard for implementation. 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 are being posted to look after the Env. dept. Also qualified environmental engineers have been posted at the project level exclusively to look after the environmental functionaries.

<p>shall be furnished.</p> <p>d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p>	
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B. GENERAL CONDITION:

Sl. No.	DETAILS OF GENERAL CONDITION.	STATUS OF IMPLEMENTATION OF THE CONDITION.										
1.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.	Complied. The mine is operating with shovel – dumper combination & surface miner is used for coal production.										
2.	No change in the calendar plan of production for quantum of mineral coal shall be made.	<p>There is no change in calendar plan. The abstract of coal production Vs approved capacity for last 03 years are given below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Year</th> <th style="text-align: center;">Coal Production (Mty)</th> <th style="text-align: center;">Approved capacity (Mty)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2019-20</td> <td style="text-align: center;">6.581`</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">15</td> </tr> <tr> <td style="text-align: center;">2020-21</td> <td style="text-align: center;">6.352</td> </tr> <tr> <td style="text-align: center;">2021-22</td> <td style="text-align: center;">7.735</td> </tr> </tbody> </table>	Year	Coal Production (Mty)	Approved capacity (Mty)	2019-20	6.581`	15	2020-21	6.352	2021-22	7.735
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3.	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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	<p>Four numbers ambient air quality monitoring station have been established in consultation with OPCB , namely:</p> <ol style="list-style-type: none"> 1. North east of the mine , Solada Village 2. North of Mine, Purnapani, Kumunda Village 3. South west Side of the Mine 4. Near Time office 										
4.	Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office 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 recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	<p>Ambient air quality monitoring being carried out in the above mentioned 4(four) station on fortnightly interval.</p> <p>The details monitoring report is enclosed herewith for reference in annexure.</p>										
5.	Adequate measures shall be taken for control	Noise level is found to be within limits. The details										

	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.	noise monitoring report is enclosed herewith for reference in annexure. The workers engaged in blasting and drilling operations of HEMM have been provided with ear muffs.								
6.	Industrial wastewater (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 15th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Effluents treatment plant has been established for treatment of workshop effluent and the effluent is conforming to the prescribed standard and the discharge from ETP is recycled for vehicle washing. The details report along with drinking water quality is enclosed herewith for reference in annexure								
7.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Routine monitoring of vehicles are done. Periodical maintenance done as per schedule in order to control vehicular emission. Overloading of trucks is avoided. Trucks travelling outside lease hold area/ mining area covered with tarpaulin. All the vehicles carry 'Pollution Under Control' (PUC) certificate.								
8.	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.	The environmental laboratory is established centrally in the Talcher Coal field and M/S CMPDIL is entrusted with the monitoring job and presently they have started the air sampling analysis at the Talcher laboratory. M/S CMPDI laboratory is of national repute & the lab is approved by MoEF & CPCB and having NABL accreditation.								
9.	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.	Protective respiratory devices have been provided to workers working in dusty area. Adequate training is being given on safety management to supervisors and workmen.								
10.	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. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	Occupational health cell has been created. PME of every worker is done in 3 years interval. Mine also has a well equipped dispensary with all facilities. <table border="1"> <thead> <tr> <th>Year</th> <th>No of people underwent PME</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>344</td> </tr> <tr> <td>2020</td> <td>89</td> </tr> <tr> <td>2021</td> <td>120</td> </tr> </tbody> </table> <p>If any potential cases are being identified, then necessary corrective measures are taken accordingly. There is also provision for PME in NIT of the contract to take up PME of man power by contractor before deployment. For all contractual man power PME will be done by company for which proposal is under process to fulfil the requirement.</p>	Year	No of people underwent PME	2019	344	2020	89	2021	120
Year	No of people underwent PME									
2019	344									
2020	89									
2021	120									
11.	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.	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 are being posted to look after the Env't. dept. Also qualified environmental engineers have been								

		posted at the project level exclusively to look after the environmental functionaries/installation.																
12.	The funds earmarked for environmental protection 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 concerned Regional Office.	<p>Fund earmarked for environment protection measures are kept in separate account. The details of expenditure during the year 2021-22 are given below:</p> <table border="1"> <thead> <tr> <th>Head</th> <th>Expenditure (Rupees)</th> </tr> </thead> <tbody> <tr> <td>Tree plantation</td> <td>5,29,181.55</td> </tr> <tr> <td>Environmental Monitoring</td> <td>95,38,608.08</td> </tr> <tr> <td>Consent fees</td> <td>48,00,000.00</td> </tr> <tr> <td>Road Repairing</td> <td>20,77,305.72</td> </tr> <tr> <td>Other environment expenses (Catch/Garland drain, dust suppression)</td> <td>60,68,289.06</td> </tr> <tr> <td>Water Tax</td> <td>37,94,186.00</td> </tr> <tr> <td>Total</td> <td>2,68,07,570.41</td> </tr> </tbody> </table>	Head	Expenditure (Rupees)	Tree plantation	5,29,181.55	Environmental Monitoring	95,38,608.08	Consent fees	48,00,000.00	Road Repairing	20,77,305.72	Other environment expenses (Catch/Garland drain, dust suppression)	60,68,289.06	Water Tax	37,94,186.00	Total	2,68,07,570.41
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13.	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 & Climate Change at http://envfor.nic.in .	<p>The condition has been complied with. The details of advertisement are as follows.</p> <ol style="list-style-type: none"> 1. In English daily "ODISHA POST", dt. 11.11.2015 2. In Oriya daily "SAMBAD", dt. 11.11.2015 																
14.	A copy of the environmental clearance letter shall be marked to concern Panchayat/ZilaParishad, 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 company's website.	<p>The condition has been complied with. The EC letter is uploaded on the MCL website.</p>																
15.	A copy of the environmental clearance letter shall be shall also be displayed on the website of the Concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	<p>The condition has been complied with.</p>																
16.	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The	<p>The EC letter is uploaded on the MCL website. The compliance status of the stipulated environmental clearance conditions is also uploaded on the MCL website and will be updated in every six month. The monitoring data of environmental quality parameter and critical pollutant such as PM10,</p>																

	<p>monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.</p>	<p>PM2.5, SO2 and NOx (ambient) and critical sectoral parameters is displayed at the entrance of the project Office.</p>
17.	<p>The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Offices of CPCS and the SPCS.</p>	<p>The condition has been complied with.</p>
18.	<p>The Regional Office of this Ministry located in the Region 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.</p>	<p>The Project authority will extending full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports and will also do so in future.</p>
19.	<p>The Environmental statement for each financial year ending 31 March in For -V is mandated to be submitted by the project proponent for 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 & CC bye-mail.</p>	<p>The Environment Statement is being submitted to Board every year. Last year it was submitted vide letter no.MCL/HQ/Envt & Forest/2021/65, dtd. 21.09.2021.</p>