

SIX MONTHLY REPORT
OF
ENVIRONMENTAL CLEARANCE
[J-11015/462/2008-IA.II (M)]
for the period April-2022 to September-2022
SIRKA OCP



S.No.	Name	Capacity in MTPA		Lease Area(Ha)
		Normative	Peak	
1	Sirka OCP	1.000	1.150	362.56
2	Sirka UGP	0.040	0.046	
3	Argada UGP	0.085	0.097	544.48
Total of GOM		1.125	1.293	907.04

ARGADA SIRKA GROUP MIXED MINES

ARGADA AREA



CENTRAL COALFIELDS LIMITED


(A Miniratna Company)


Status of compliance of the terms and conditions given in the Environmental clearance letter No.J-11015/462/2008- IA. II (M) Dt. 25.09.2014 issued by MoEFCC , Govt. of India New Delhi for Argada Sirka Group Mixed Mines for the period from April-2022 to September-2022.


A. SPECIFIC CONDITIONS


S. No.	Conditions	Status
01.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in EC.	The production from the mine at any given time is well within the limit prescribed in EC.
02.	The validity for EC is for the life of the mine as specified in EIA Notification, 2006, whichever is earlier.	Agreed and accepted.
03.	No mining operation shall be undertaken in the forest land until clearance has been obtained under the provisions of FC Act, 1980.	This condition has already been complied.
04.	Coal transportation in pit by dumper, Surface to siding by trucks and siding to loading by pay loaders. Transportation of the coal from the mine to the railway siding should be by mechanically covered trucks.	The mine is non-operational since 31-03-2019. No coal transportation is taking place currently.
05.	The production shall be within the same mining lease area.	The mine is non-operational since 31-03-2019. The production takes place within the same mining lease area.
06.	The OB shall be completely rehandled at the end of the mining.	Agreed and assured to comply.
07.	Coal extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring and coal extraction should be carried out below habitation, H.t lines and beneath road, water bodies.	Agreed and accepted.
08.	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the land owner shall be adequately compensated with mutual agreement with the land owners.	Subsidence is being monitored closely. No subsidence has taken place yet as there is no depillaring in Argada ug and in Sirka ug, depillaring has been done with sand stowing long back. At present, both the underground mines have been closed.
09.	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the areas adjoining the mine sites. Sump capacity	Sump of adequate capacity and sufficient retention time has been provided to allow proper settling of silt material.

	shall also provide adequate retention period to allow proper settling of silt material.	
10.	Water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points etc. Major approach roads shall be black topped and properly maintained.	<p>Water sprinkling using 28 KL tanker is done regularly to minimize fugitive emission.</p> 
11.	Mining shall be carried out as per statute at a safe distance from the river/nallah flowing adjacent to the lease boundary.	Mining was done at a safe distance from the nearby Pararu Nallah. The mine is non-operational since 31-03-2019.
12.	The land after mining shall be brought back for agricultural purpose.	Accepted
13.	Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.	It is being monitored quarterly by CMPDIL. Quarterly reports of last 2 quarters are enclosed as Annexure I.
14.	High root density trees species shall be selected and planted over areas likely to be affected by subsidence.	<p>Afforestation shall be done as per norms.</p> 
15.	The CSR cost should be Rs. 5 per tonnes of coal produced which should be adjusted as per the	It is done as per company's CSR policy. CSR data is attached as Annexure 1

	annual inflation.	
16.	The mining in the existing mines should be phased out after the expiry of the current mining lease after reclamation of mined over area. The operating mines may be analyzed and monitored for compliance of conditions, bearing with movement of wildlife and until such time they are closed/phased out.	Accepted
17.	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Appropriate measures such as dust masks are provided to working personnel deployed in the core mining areas. List of issued devices is hereby attached. List of issued devices is attached as Annexure 2
18.	The supervisory staff should be held personally responsible for protection against fugitive dust emissions.	Accepted No cases of fugitive dust emission have been detected in the past 6 months. The mine is non-operational since 31-03-2019.
19.	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.	Periodical Medical Examination (PME) is done by the doctors/medical experts in our hospitals/dispensaries. PME and IME details are attached as Annexure 3 
20.	The mining area should be surrounded by green belt having thick closed canopy of the tree cover.	Plantation is being done in order to develop the green belt. An approximate area of 40 ha is already under green cover
21.	The embankment constructed along the river boundary of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	Embankment has been done all along river bed to withstand peak water flow and prevent mine inundation.

		
22.	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.	It is complied.
23.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flow from soil, OB and mineral dumps. The water so collected shall be utilized 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 settling of silt material.	Garland drains and sump of adequate capacity are maintained to withstand peak sudden rainfall in the area adjoining the mine site and to provide adequate retention time for proper settling of silt material respectively.
24.	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 rainfall data	Maintained
25.	Crushers at the CHP of adequate capacity for the expansion project shall be operated with the high efficiency bag filters, water sprinkling system shall be provided to check fugitive emission from crushing operation, conveyor system, haulage roads, transfer points etc.	No crushing operations is being done in the mine. The mine is non-operational since 31-03-2019.
26.	Acid Water Treatment plant, volume of water to be treated and disposal of brine should be provided.	This condition is not applicable to our mines.
27.	Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.	Quarterly monitoring is being done by CMPDIL. Quarterly reports of last 2 quarters is enclosed as Annexure 4
28.	Drills shall be wet operated.	The mine is non-operational since 31-03-2019. Wet drilling will be done.

29.	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 all along the major approach roads.	Pucca roads are maintained at all times for transportation purpose. Native species are planted.
30.	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 mine is non-operational since 31-03-2019. Controlled blasting will be done to control vibration and arrest fly rocks.
31.	A progressive afforestation plan shall be implemented covering an area of 185.11 Ha at the end of mining, which includes reclaimed external OB dump area, Internal OB dump area, along roads and green belt and in township located outside the lease by planting native species in consultation with the local DFO/ agricultural department. The density of the trees shall be around 2500 plants per hectare. 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.	Accepted An approximate area of 40 ha is already under plantation cover.
32.	An estimated of total 10.46 Mm ³ of OB will be generated during the entire life of the mine. Out of which 6.45 Mm ³ of Ob will be dumped in six external OB dumps an earmarked area covering 23.07 Ha of land with height of 34 m. 4.01 Mm ³ of will be four internal OB dump in covering an area of 12.14 Ha with height of 34 m above ground level. The maximum height of external OB dump for hard OB will not exceed 90 m and that for soft OB will not exceed 60 m. 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 and its regional office on yearly basis.	Accepted. No OB dump has exceeded the prescribed height 
33.	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Progressive and concurrent reclamation of mined out areas will be carried out as per approved EMP and Mine Closure Plan.
34.	Compensatory Ecological and restoration of waste land, other degraded land and Ob dumps in lieu of breaking open the land be carried out.	Accepted
35.	The mining should be phased out in a sustainable manner. No extra over burden dumps are permitted.	It will be done as per norms.
36.	No void will be left.	Accepted
37.	No groundwater shall be used for mining operations.	It is not being used.
38.	Of the total quarry area of 185.11 ha the backfilled quarry area of 147 Ha shall be	Accepted An approximate area of 40 ha is already under


	reclaimed with plantation and shall be gently sloped and the upper benches shall be terraced and stabilized 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 hectare.	plantation cover.
39.	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new 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 and Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.	It is being monitored by CMPDIL. CCL is in the process of installing Piezometer in the project area of Sirka OCP and will be done in two months time. The water level collected from local well is hereby attached as Annexure 5.
40.	Regular monitoring of subsidence movement on the surface over and around the working area and impact of natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/ suitable material.	Regular monitoring of subsidence movement is done. No case of subsidence has taken place till date.
41.	If subsidence is found exceeding the permissible limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	Accepted
42.	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirements of nearby villages in case the village wells go dry due to dewatering of the mine.	Two nos. of abandoned quarries filled with water will help in recharging the underground water. Below is the photograph of Quarry No.1 
43.	Sewage treatment plant shall be installed in the	ETP at workshop is in operation to ensure the

	existing colony. ETP shall also be provided for workshop and CHP wastewater.	discharge norms as per statute. Sewage treatment in colony is being done by Soak-pit method
44.	Besides carrying out regular 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.	Health checkup of the workers engaged in active mining operations is done on a regular basis. Details of PME and IME is hereby attached as Annexure 3
45.	Land oustees shall be compensated as per norms laid out R&R policy of CIL or the National R&R policy or R&R policy of the state govts. Whichever is higher	It is done as per R&R policy 2012 of CIL and company.
46.	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 the end of the mine life shall be prepared once in every three years (for any particular season which is consistent in the time series) and the report submitted to MoEFCC and its concerned regional office.	The land use pattern based on satellite imagery (on a scale of 1: 5000) of the core and buffer zone is available on CCL website www.ccl.gov.in
47.	A detailed Final Mine Closure plan along with details of corpus fund shall be submitted to the Ministry of Environment, Forest & Climate Change within six months of grant of EC	A detailed Mine Closure plan (MCP) has already been submitted and attached here as Annexure 6
48.	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 is being done in consultation with the Panchayat of adjoining area.
49.	Corporate Environment Responsibility:	
(a)	The company shall have a well laid down Environment Policy approved by the Board of Directors	The company has a well laid down environment policy approved by the Board of Directors. It is displayed on the CIL's website www.cil.gov.in
(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.	It is well laid in the company's environment policy.
(c)	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	The Environment department has been set up at the company's HQ, area and unit levels with appropriate manpower and resources in order to deal effectively with the environmental issues and ensure compliance. Separate environmental cell has been established and put under charge Environment Nodal Officer i.e. Sri Ashok Naik Project Engineer (Civil)) who is directly reporting to the Head of Project (Project Officer).

		There is a senior Area Environmental officer to look after the environment matters. Sri Jay Prakash Sinha, Asst. Manager (Environment) is Nodal Officer (E&F) at Area Level. The letter in this regard as Annexure 7
(d)	To have proper checks and balances, the company shall 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.	The company has a well laid down system of proper checks and balances for reporting of non-compliances and violations.

B. General Conditions

i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	The technology used in the mine is as per approved project report and there is no change in technology.
ii	No change in the calendar plan of production for quantum o mineral coal shall be made.	The mine is non-operational since 31-03-2019.
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM ₂₅ , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological 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.	It is being undertaken by CMPDIL on a fortnightly basis. The monitoring report of the last 2 quarters are enclosed herewith.
1v	Data on ambient air quality (PM ₁₀ , PM ₂₅ , SO ₂ and NO _x) 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 Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	Data submission is being done in online mode and a screenshot of the same is attached as Annexure 8
v	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with ear plugs/muffs.	Adequate measures to minimize noise pollution have been taken. Noise levels are regularly monitored and kept below 85 dbA in the work environment. Ear plugs/muffs have been provided to mine workers for regular use as on date (attached as Annexure 2) Noise monitoring report is enclosed as Annexure 4
vi	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge.	ETP with grease trap has been provided. Industrial waste water produced is treated and recycled at workshop level

	Oil and grease trap shall be installed before discharge of workshop effluents.	
vii	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	<p>Vehicles used for transportation of minerals are properly covered to check fugitive emissions.</p> 
viii	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 analyzed through a laboratory recognized under EPA Rules, 1986.	It is done by CMPDIL.
ix	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.	Dust masks are provided to the workers/personnel working in dusty areas. List of issued devices is hereby attached
x	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.	Health checkups are done periodically on regular basis by doctors/medical experts in our hospitals/dispensaries. PME and IME details are hereby attached as Annexure 3
xi	A separate environment 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.	<p>The Environment department has been set up at the company's HQ, area and unit levels with appropriate manpower and resources in order to deal effectively with the environmental issues and ensure compliance. Separate environmental cell has been established and put under charge Environment Nodal Officer i.e. Sri Ashok Naik Project Engineer (Civil) who is directly reporting to the Head of Project (Project Officer).</p> <p>There is a senior Area Environmental officer to look after the environment matters. Sri Jay</p>

		Prakash Sinha, Asst. Manager (Environment) is Nodal Officer (E&F) at Area Level. The letter in this regard as Annexure 7
Xii	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.	Funds earmarked for environment are used for this purpose only. It is not diverted for any other purpose. The details is hereby attached as Annexure 9
xiii	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 environment 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, Forests & Climate Change at http://envfor.nic.in .	Accepted and complied.
xiv	A copy of the environmental clearance letter shall be marked to concern 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 company's website.	Complied. A receiving copy from a nearby panchayat is attached as Annexure 10 No representation of such kind has been received.
Xv	A copy of the environmental clearance letter shall be shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/ Tehsildar's Office for 30 days.	Copy of Environmental Clearance has been submitted. Compliance of EC condition are submitted to MoEF Regional Office, Ranchi and JSPCB, Ranchi on a regular basis.
Xvi	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	Letter of EC along with the compliance status of the stipulated Environmental Clearance conditions is displayed on the website.
xxvii	The project proponent shall submit six monthly 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 CPCB and the SPCB.	Six monthly compliance of the stipulated EC conditions is submitted to the concerned authorities on a regular basis both in hard as well as soft copies.
Xviii	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.	CCL ensures full cooperation to the offices of the Regional Office by furnishing the requisite data/ information/ monitoring reports.
xix	The Environmental statement for each financial year ending 31 st March in for V is mandated to	The Environmental Statement is annually submitted to the JSPCB and Regional Office

	<p>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 MoEFCC by e-mail.</p>	<p>of MoEFCC, Ranchi on time. It is also uploaded on the CCL's website.</p>
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Project Officer
Sirka OCP