

**HALF YEARLY ENVIRONMENTAL MONITORING REPORT
APRIL-2023 TO SEPTEMBER-2023
RAMAKRISHNAPUR OPENCAST PROJECT PHASE-1
MANDAMARRI AREA**

Submitted to

**Ministry of Environment, Forests
&
Climate Change
Government of India**

Submitted by



**The Singareni Collieries Company Limited
(A Govt. Company)
Mandamarri Area**



The Singareni Collieries Company Limited
(A Govt. Company)
Mandamarri Area

Ref: No: MMR/ENV/R/003/23/ 222

Date: 24.11.2023

To
THE DIRECTOR/Scientist 'F'
Integrated Regional Office, Hyderabad,
Ministry of Environment, Forest and Climate Change,
Aranya Bhavan, 3rd floor, Saifabad,
Hyderabad- 500004
Telangana State.

Respected Sir,

Sub: Half yearly Environmental Monitoring report in respect of
"Ramakrishnapur Open Cast Project Phase-1" for the period
April, 2023 to September, 2023 -reg.
Ref: MoEF (GoI), New Delhi No, J-11015/219/2008-IA.II (M), 16th
March, 2010.

Reference to the above, the status of implementation of Environmental clearance conditions vis-à-vis Project progress for the period from April, 2023 to September, 2023 in respect of **"Ramakrishnapur Open Cast Project Phase-1"** of the Singareni Collieries Company Limited, Mandamarri - (PO), Mancheri - (Dist), Telangana - (State) is being furnished for your kind perusal.

Thanking You,

Yours faithfully,


General Manager
Mandamarri Area
The S.C.Co.Ltd.
General Manager
The Singareni Collieries Co. Ltd.
MANDAMARRI AREA
P.O. KALYANI KHANI- 504 231.
Mancheri (Dist), Telangana.

Encl: Half Yearly compliance report of Ramakrishnapur
Open cast project phase-1

Cc: EE, TSPCB, RO, Nizamabad
GM(Env), Corp,
PO/RKPOC

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SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
MANDAMARRI-AREA

PART – I
**HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS
FROM APRIL-2023 TO SEPTEMBER-2023**

SALIENT FEATURES OF THE PROJECT:

| | | | |
|---|---|---|---|
| 1 | Name of the Project: | : | Ramakrishnapur Open Cast Project Phase-I |
| | Organization | : | Singareni Collieries Company Limited |
| | Coalfield | : | Godavari Valley Coal Field |
| | Type of Mine | : | Open Cast Mine |
| | Technology | : | Shovel-Dumper combination |
| 2 | Environmental Clearance: | | |
| | A. Letter No & date | : | J-11015/219/2008-IA.II(M) GoI, MoEF dated: 16.03.2010 |
| | B. Sanctioned Capacity | : | 3.40 MTPA |
| | C. Mining Lease Area.(total area) | : | 637.52 ha |
| | D. Date of Public Hearing | : | 22.10.2009 |
| 3 | Location of the Project: | | |
| | A. Village | : | Doragari Palli |
| | B. Tehasil / Mandal | : | Mancherial |
| | C. District | : | Mancherial |
| | D. State | : | Telangana State |
| | E. Latitude | : | North : 18°54'11" to 18°57'37" |
| | F. Longitude | : | East : 79°27'57" to 79°30'.35" |
| | G. Topo Sheet | : | No:56N/5 & 56N/9 |
| | H. Nearest railway station | : | Ravindra Khani Rly. Station (2.5 Km.) |
| | I. Nearest Airport | : | Hyderabad Airport (250 Km.) |
| | J. Nearest town | : | Mancherial (10 Km.) |
| 4 | Address for Correspondence: | | |
| | A. Name | : | M.GOVINDA RAO |
| | B. Designation | : | Dy. General Manager |
| | C. Address | : | Ramakrishnapur Open Cast Project Phase-I |
| | D. PIN Code | : | 504301 |
| | E. E-mail ID | : | po_rkpoc@scclmines.com |
| | F. Telephone No. | : | 08736-226005 |
| | G. Fax No. | : | - |
| 5 | Life of the Project: | | |
| | A. Date of Opening | : | 20.12.2013 |
| | B. Total Life of the project as per EMP | : | 10 years |
| | C. Balance Life | : | 2 years |
| 6 | Seams: | | |
| | A. No. of Seams Present | : | 11 Seams |
| | B. Seams being worked | : | All the seams are working. Coal production is commissioned on 14.03.2014. |
| 7 | Depth: | | |
| | A. Minimum Depth | : | 30 m |


RKPOCP HYMR Report from April-2023 to September-2023


| | | | | |
|----|---|---|---|---------------------|
| | B. Maximum Depth | : | 180 m | |
| | C. Present working depth | : | 160 | |
| 8 | Reserves: | | | |
| | A. Total Geological Reserves | : | 30.79 MT | |
| | B. Total Extractable Reserves | : | 27.81 MT | |
| | C. Reserves already Extracted | : | 15.798MT(4.47MT by underground mining+12.375) MT by opencast mining) | |
| | D. Balance Reserves | : | 3.115 MT | |
| | E. Coal production during last 6 months | : | 0.77 MT | |
| 9 | Over Burden: | | | |
| | A. Total OB | : | 219.24 M m ³ | |
| | B. OB extracted since inception | : | 176.394 M m ³ (including top soil) | |
| | C. OB removed in last 6 months | : | 8.182 M m ³ (including top soil) | |
| | D. Stripping Ratio | : | 10.52 (For last six months) | |
| 10 | Top Soil: | | | |
| | A. Total Topsoil | : | 1.571 M m ³ | |
| | B. Topsoil extracted since inception | : | 1.571 M m ³ | |
| | C. Topsoil removed during last six months | : | 0.51 m ³ | |
| 11 | Land Requirement: | | | |
| | A. Total Requirement | : | 637.52 Ha. | |
| | B. Forestland Involved | : | 202.50 Ha | |
| | C. Non-forestland | : | 435.02 Ha. | |
| 12 | Activity wise Land Requirement: | | As per EMP (Ha) | Present status (Ha) |
| | A. Quarry Area | : | 253.42 Ha | 253.420 |
| | B. External OB Dumps | : | 264.26 Ha | 256.652 |
| | C. Infrastructures | : | 8.08 Ha | 7.760 |
| | D. Others | : | 111.76 Ha | 111.760 |
| | E. Total | : | 637.52 Ha | 629.592 |
| 13 | Statutory Clearances: | | | |
| | A. Mining Plan Approval | : | MP was approved by MoC, Gol vide Lr. No. 13016/13/2009-CA-II, dated: 09.03.2010 and Mine Closure Plan was approved by MoC, Gol vide Lr. No. 13016/10/2006 - CA-II, dated: 25.11.2014. | |
| | B. Ground Water Clearance | : | Lr.No.157/T/2008, Dated 30-04-2009. | |
| | C. Consent for Establishment | : | 60/PCB/CFE/RO-NZB/HO/2010/822, Dated: 12-10-2010 | |
| | D. Consent for Operation | : | CFO has been obtained vide Lr No: Consent order No: 210522811648, Date; 25.02.2021, valid up to 31.12.2025. | |
| | E. Forest Clearance | : | Forest land diversions for 202.50 Ha has been obtained vide Lr. no: 8-26/2010 FC,Dt:13.07.2011 | |
| | F. Mining Lease | : | The mine falls in the North Godavari Mining Lease (Total lease area-637.52 Ha). Lease renewal is obtained vide MoEF letter No. Gol (MoEF) F.No.8-5/1988-FC (pt), Dated: 04/02/2013. | |
| 14 | R & R Involved: | : | No R&R is involved. | |



Status of Implementation of MoEF & CC conditions as on 30.09.2023

A) Specific Conditions:

| Sl.No. | Condition | Compliance Status |
|---------------|--|---|
| (i) | Mining shall not be carried in forest land for which forestry clearance has not been obtained under the provisions of FC Act, 1980. | <p>Being complied.</p> <p>Forest land diversions for 202.50 Ha has been obtained vide Lr. No: 8-26/2010-FC,Dt:13.07.2011.</p> |
| (ii) | Adequate safety measures shall be implemented for mining in areas where underground mining has been undertaken. Prior permission of the DGMS shall be taken to undertake opencast mining in areas where underground mining has been done. | <p>Being complied.</p> <p>All permissions required under CMR 2017 have been obtained from DGMS.</p> <p>All the safety measures are being implemented as per the provisions of CMR 2017, DGMS circulars issued from time to time and as per the conditions stipulated in mine permission issued by D.G.M.S..</p> |
| (iii) | Topsoil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used for reclamation and development of green belt. | <p>Being Complied.</p> <p>Top soil of quantity 3.00 L.cu.m is properly stacked in an area of 12.71 Ha at the earmarked place and remaining 10.023 L.Cu.m top soil is being covered on 60m and 90m OB bench slopes and also for bund formation along the Quarry.</p> |
| (iv) | OB shall be stacked at earmarked one external OB dumpsite of 264.26 ha within ML area and shall not exceed a maximum height of 90m consisting of 3 benches of 30m each. Balance OB to be generated over the last 3 years of mine life shall be re-handled and backfilling into the quarry. The ultimate slope of the dump shall not exceed 28°. Slope stability studies shall be carried out and monitoring of the stability of the dumps continuously undertaken and particularly during monsoon and post monsoon seasons to ascertain its stability. Monitoring and management of existing reclaimed dumpsites shall be submitted to the Ministry of Environment & Forests and its regional office located at Chennai on yearly basis. | <p>Being Complied.</p> <p>Presently, OB dump has reached a maximum height of 90 m. OB dump management is being done as per the approved EMP.</p> <p>OB quantity of 174.823 Mm³(top soil preserved to be removed) is stacked in an extent of 258.652 Ha.</p> <p>OB quantity of 174.823 Mm³ is stacked in an extent of 258.652 Ha. internal OB dump.</p> <p>Over All slope of Dump is 28°, Slope stability studies Done by NIIT Surathkal.</p> |


| Sl.No. | Condition | Compliance Status |
|--------|--|---|
| (v) | <p>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 utilized for watering the mine area, roads green belt development, etc. The drains shall be regularly desilted and maintained properly.</p> <p>Garland drains of suitable 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 be provided for adequate retention period to allow proper settling of silt material.</p> | <p>Being Complied.</p> <p>Catch drains and settling ponds of appropriate size are being constructed by considering maximum rainfall. Garland drain (Average bottom width 2m to 8m, top width 5m to 15m, depth 2m to 11m) is made for a length of 19.05 km around Quarry and also External dump yard.</p> <p>Surface run off during rainy season is being let out in to nallah after proper treatment at settling ponds, check dams. Ultimately where water is being let out to Amaravadi Tank & Dorgaripalle Tank.</p> <p>Garland drain has been prepared for a length of 10.80 km around the dump yard and fifteen settling ponds (capacity – 7500 to 10500 cu.m of each) have been constructed and maintained. Deck drain has been made for a length 8.4 km on 30m OB bench.</p> |
| (vi) | <p>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.</p> | <p>Being Complied.</p> <p>Toe wall of around 5.7 km out of 7.20km constructed all around the OB dumps.</p> <p>Toe walls disturbed during rainy season are re constructing Dimensions of the toe wall are bottom width 4m, height -2m and top width-1m.</p>  |

| Sl.No. | Condition | Compliance Status | | | | | | | | | | | | | | | |
|--------|--|--|--------|-------------|-------------|---|----------|----------------------|---|---------|--------|---|---|--------|---|--|----------|
| (vii) | Crushers at the proposed CHP 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, and transfer points. | <p>Partially Complied.</p> <p>Mist water spraying arrangement has been made at crusher and discharge points at CHP & haul Road.</p>  <p>ANTI SMOKE GUN</p> | | | | | | | | | | | | | | | |
| (viii) | Drills shall be wet operated only. | <p>Being complied.</p> <p>Wet drilling is being practiced.</p> | | | | | | | | | | | | | | | |
| (ix) | Controlled blasting shall be practiced only during day time with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented. | <p>Being complied.</p> <p>OB is being extracted by adopting control blasting technique with non electrical delay detonators (NONELs) and also muffling of blast holes is being done when blasting zone approaches nearer to the village. Monitoring of ground vibrations during blasting is enclosed as Annexure-I.</p> | | | | | | | | | | | | | | | |
| (x) | Afforestation shall cover a total area of not less than 532.37ha which includes reclaimed external OB dump (264.26 ha), reclaimed topsoil dump, backfilled quarry area (31.46 ha from existing project), backfilled quarry area from Ph-II (235.32 ha) topsoil dump (1.33 ha), along ML boundary, along roads and along service buildings and CHP, within the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. | <p>Being complied.</p> <p>Afforestation on OB dumps and green belt has been developed along mine boundary with native species in an, in consultation with the Forest Officer and the density of trees have been maintained about 2500 Plants/ha. The details of plantation are given below.</p> <table border="1"> <thead> <tr> <th>Sl. No</th><th>Description</th><th>Area in Ha.</th></tr> </thead> <tbody> <tr> <td>1</td><td>OB dumps</td><td>Extent of 143.444 Ha</td></tr> <tr> <td>2</td><td>RF land</td><td>122 Ha</td></tr> <tr> <td>3</td><td>along mine boundary, pit head CHP and also surrounding office buildings etc.,</td><td>14 Ha.</td></tr> <tr> <td>4</td><td>Avenue plantation along approach roads of RKOPC, CHP RKP and internal roads of RKP Colony.</td><td>18.50 KM</td></tr> </tbody> </table> <p>Thus, total plantation has been done in an extent 297.94Ha of including non-mandatory under this project till now.</p> <p>Plantation plan was enclosed as Annexure-II</p> | Sl. No | Description | Area in Ha. | 1 | OB dumps | Extent of 143.444 Ha | 2 | RF land | 122 Ha | 3 | along mine boundary, pit head CHP and also surrounding office buildings etc., | 14 Ha. | 4 | Avenue plantation along approach roads of RKOPC, CHP RKP and internal roads of RKP Colony. | 18.50 KM |
| Sl. No | Description | Area in Ha. | | | | | | | | | | | | | | | |
| 1 | OB dumps | Extent of 143.444 Ha | | | | | | | | | | | | | | | |
| 2 | RF land | 122 Ha | | | | | | | | | | | | | | | |
| 3 | along mine boundary, pit head CHP and also surrounding office buildings etc., | 14 Ha. | | | | | | | | | | | | | | | |
| 4 | Avenue plantation along approach roads of RKOPC, CHP RKP and internal roads of RKP Colony. | 18.50 KM | | | | | | | | | | | | | | | |

| Sl.No. | Condition | Compliance Status |
|--------|---|---|
| | |  <p data-bbox="862 604 1266 632">PLANTION AT SAFETY ZONES</p> |
| (xi) | <p>A progressive Mine Closure plan shall be implemented by reclamation of quarry area of 253.42 ha which shall be backfilled from the 4th year of mining and backfill the void by bringing 205.02 Mm³ of OB from the next phase of the RKP OCP Ph-II project and by re-handling OB generated during the last 3 years of mine life and backfilled into the quarry which would be raised by 10m above ground level the backfilled quarry area shall be afforested 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. There shall be no de coaled void left at the end of mine life.</p> | <p>Being complied.</p> <p>The mine is in initial stages of operation and progress of reclamation of the mine is being informed to MoEF & CC through half yearly compliance reports.</p>  <p data-bbox="867 1188 1133 1215">DUMP PLANTATION</p> |
| (xii) | <p>Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells 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 thus</p> | <p>Being complied.</p> <p>Six Nos of Peizometers are established around the quarry area, in addition to existing wells for regular monitoring of ground water levels during 4 seasons in a year and data is being submitted to the Regional office, MoEF & CC, Chennai and to the Member Secretary, TSPCB, Hyderabad and Ground water Department. Groundwater quality and Ground water levels were enclosed as Annexure-III & Annexure-IV respectively.</p> |

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| Sl.No. | Condition | Compliance Status |
|--------|--|---|
| | collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution control Board quarterly within one month of monitoring. | |
| (xiii) | The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of ground water level indicates decline in the water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine. | <p>Being complied.</p> <p>In case any abnormal fall in Ground water levels observed in nearby villages and the open wells go dry, company will make alternate arrangements to supply water to the villagers. Further excess water will be let out into nearby tanks. De silting of tanks and other repairs of protection bunds will be undertaken for retention of original ground water levels. Initially, Amarawadi tank was de-silted by removing 12500 M³ for augmentation of ground water recharge in and around the Amarawadi village. It is proposed to de-silt nearby tanks and also it is sanctioned for 2.00 L cu.m of de-silting.</p> |
| (xiv) | Beside 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 agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS. | <p>Being complied.</p> <p>SCCL is also conducting regular health camps in villages located in the vicinity of project to study the health status of the people and is providing free treatment in SCCL hospitals.</p> <p>In addition, SCCL established eleven Initial Medical Examination (IME) /Periodical Medical Examination (PME) centres in the company, i.e., at Kothagudem, Manuguru, Yellandu, Godavarikhani, Sector - III Colony(Godavarikhani), Bellampalli, Ramakrishnapur, Mandamarri, Srirampur, Bhupalpally and Sathupalli for conducting IME/PME of the employees including contract employees.</p> <p>All the PME Centres are equipped with necessary infrastructure for carrying out IME/PME and maintenance of data base.</p> <p>Every PME centre is provided with the facility for chest radiographs as per ILO guidelines with a set of ILO standard chest radiographs on Pneumoconiosis, lung function tests with computerized Spirometres of RMS make, and facilities for Audiometry with pure tone Audiometry equipment.</p> <p>All the Chest radiographs of the Initial and Periodical Medical examinations are being classified for detection, diagnosis and documentation of Pneumoconiosis in accordance with the ILO classification for Pneumoconiosis according to DGMS guidelines.</p> <p>All the PME Doctors employed except gynaecologists, paediatricians, surgeons and ortho surgeons are trained to read PME X Rays in accordance with ILO classification of Pneumoconiosis.</p> <p>Out of a total of 209 Doctors on roll as on date, 123 Doctors</p> |



| Sl.No. | Condition | Compliance Status |
|--------|--|---|
| | | <p>are trained in reading the chest radiographs as per the ILO guide lines. SCCL has one Occupational Diseases Board (Pneumoconiosis Board) in existence since 1965. Chief of Medical Services, Radiologist constituted the Occupational Diseases Board, Physician and Occupational Health Physician together.</p> <p>In SCCL, Every employee above 45 years age is examined at an interval of once in three years and employees of below 45 years age are examined once in five years under PME. If, on examination his health status is found to be normal, he will be reviewed after completion of 5/3 years period.</p> <p>Eye refraction test is being done for vehicle drivers and HEMM operators at an interval of once in a year.</p> <p>The PME details are being submitted to the Ministry and to the DGMS at regular intervals. In SCCL, Every employee above 45 years age is examined at an interval of once in three years and employees of below 45 years age are examined once in five years under PME. If, on examination his health status is found to be normal, he will be reviewed after completion of 5/3 years period.</p> <p>Eye refraction test is being done for vehicle drivers and HEMM operators at an interval of once in a year.</p> <p>The PME details are being submitted to the Ministry and to the DGMS at regular intervals.</p> |
| (XV) | ETP shall also be provided for work shop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course. | <p>Being complied.</p> <p>An ETP has been constructed and being maintained properly.</p>  <p style="text-align: center;">ETP AT BASE WORKSHOP</p> |
| (xvi) | 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) on 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 | <p>Being complied.</p> <p>Satellite data based land use/land cover studies for coal mining projects was carried by off-loading agency M/s Geosis Enterprise Solutions Pvt.Ltd,Hyderabad.in the year 2019 and the reports were submitted to the MoEF and its Regional office at Chennai with reference letter no: MMR/ENV/G6/2020/56,Dated: 27.05.2020.</p> <p>The Land use & Land cover study report copy was enclosed as Annexure-V</p> |

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| Sl.No. | Condition | Compliance Status |
|---------|---|---|
| | its Regional office at Chennai. | |
| (xvii) | A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval. | <p>Will be complied. Mine Closure Plan along with details of corpus fund was approved by MoC, GoI vide Lr. No. 13016/10/2006 - CA-II, dated: 25.11.2014.</p> <p>Amount deposited in ESCROW account No. 40886384579 up to 31.03.2023 is Rs.66.53 Crore, balance amount in ESCROW account till now is Rs. 66.09 Crore and Rs.16.62 Lakhs is reimbursed from ESCROW account.</p> <p>A copy of the ESCROW agreement and bank statement showing amount in the ESCROW account is furnished in Annexure-VI</p> <p>Final mine closure plan will be prepared and submitted to MoEF &CC, 5 years in advance of final closure of the mine. Progressive mine closure plan is being submitted to the coal controller.</p> |
| (xviii) | An amount not less than a capital expenditure of Rs.160 Lakhs and a revenue expenditure of Rs.297.30 lakhs shall be earmarked and utilized for environmental protection measures, the status of which shall be uploaded regularly on the company website and also furnished as part of the monitoring report. | <p>Being complied.</p> <p>The earmarked funds are being spent exclusively for environmental protection works and will not be diverted for any other purpose. The details of the expenditure is being regularly furnished and uploaded in the company website once in every six months.</p> <p>The expenditure incurred on environmental protection works is furnished as Annexure-VII.</p> |
| (xix) | The project authorities shall carry out a pre-mining socio-economic survey based on the UNDP Human Development Report and monitor the socio-economic status of the adjoining villages once every three years and maintain records thereof and report in their Annual Report, the socio-economic impact of CSR activities. The yearly activities undertaken and progress made on CSR shall be uploaded on the company's website and updated at least once in six months. | <p>Being complied.</p> <p>A socio-economic survey was carried out through Centre for good governance, Jubilee hills, Hyderabad on the impacts of CSR activities and the study report was submitted to the Director, MoEF & CC, Chennai vide Lr No: MMR/ENV/G-6/2021/73, Sate: 16.07.2021.</p> |

B. GENERAL CONDITIONS:

| S.No | Condition | Compliance Status |
|-------|---|---|
| (i) | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests. | <p>Being complied.</p> <p>There is no change of mining technology and scope of work and it is being done with shovel, dumper combination. Prior approvals will be obtained from MoEF & CC in case of any change in technology and scope of work.</p> |
| (ii) | No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made. | <p>Being complied.</p> <p>It is being scrupulously followed.</p> |
| (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 _{2.5} , SO ₂ and NO _x , 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. | <p>Being complied.</p> <p>Post project environmental parameters monitoring work is being carried out through M/s EPTRI, Hyderabad and results are being regularly sent to the Regional office, MoEF & CC, Chennai and State Pollution Control Board. To observe meteorological features, automatic weather monitoring station has been installed in the area and the locations of monitoring stations were fixed in consultation with RO, TS. Pollution Control Board, Nizamabad. The post project ambient air quality data is enclosed as Annexure-VIII.</p> <div data-bbox="828 1173 1299 1373" data-label="Image"> </div> <p>Ambient Air Quality Monitoring station</p> |
| (iv) | Fugitive dust emissions (PM ₁₀ and PM _{2.5}) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading and dump trucks (loading and unloading) points shall be provided and properly maintained. | <p>Being complied.</p> <p>To control dust emission along haul roads 2nos of 28KL (SCCL) and 1no of 28KL, 2nos of 20KL and 2nos of 10KL (off-loading agency) water sprinklers are being deploying in all three shifts.</p> <p>Water spraying arrangement has been made at crusher and discharge points at CHP for suppression of dust from crushing operations. One 10KL hired water sprinkler is being deployed for suppression of dust on public roads.</p> |

| S.No | Condition | Compliance Status |
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| (v) | Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) shall be regularly submitted to the Ministry including its Regional Office at Chennai and to the State Pollution Control Board and the Central Pollution Control Board once in six months. | <p>Being complied.</p> <p>The ambient air quality data on PM₁₀, PM_{2.5}, SO₂ and NO_x is being submitted to MoEF & CC, and State Pollution Control board, Hyderabad once in every 6 months.</p> |
| (vi) | Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operation, operation of HEMM, etc shall be provided with ear plugs/muffs. | <p>Being complied.</p> <p>All the HEMM are being tuned regularly to control noise levels in the work environment.</p> <p>100 no's ear plugs were provided for persons who are engaged in blasting, drilling operations.</p> |
| (vii) | 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 19th 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. | <p>Being complied.</p> <p>ETP has been constructed and maintained for removal of Oil and Grease from work shop effluents.</p> |
| (viii) | Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be | <p>Being complied.</p> <p>All HEMMs are being maintained as per manufacturer schedule. Vehicular emission are being monitored</p> |

RKPOCP HYMR Report from April-2023 to September-2023

| S.No | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | covered with tarpaulins and optimally loaded. | regularly and kept under control. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (ix) | Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board. | <p>Complied.</p> <p>Environmental parameters monitoring is being carried out through EPTRI, Hyderabad, a CPCB recognized and NABL accredited laboratory. Also, a Regional Environmental Lab has been established by M/s EPTRI, Hyderabad at Mandamarri Area for analysis of critical parameters in the field.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (x) | 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. Occupational health surveillance programmed 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. | <p>Being complied.</p> <p>150 Nos protective respiratory devices are being issued to the workmen who are likely to be exposed to dusty areas. Refresher training: 13 Change of job training: 11</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (xi) | 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. | <p>Complied.</p> <p>A company level environment cell with qualified personnel headed by General Manager (Environment) who is reportable to the Director of the Company is established to monitor and guide in implementation of the environmental safeguards.</p> <p>An area level environmental cell headed by qualified environmental officer is established and functioning under the control of area General Manager to monitor and guide in implementation of the environmental safeguards.</p> <p>Apart from this, a unit level Environmental Management Committee with multidisciplinary team has been constituted under the chairmanship of SO to GM. The committee has been constituted with following members.</p> <table border="1"> <tr> <td>1.</td><td>SO to General Manager</td><td>Chairman</td></tr> <tr> <td>2.</td><td>Project Officer</td><td>Member</td></tr> <tr> <td>3.</td><td>Area Engineer (E&M)</td><td>Member</td></tr> <tr> <td>4.</td><td>Area Civil Engineer</td><td>Member</td></tr> <tr> <td>5.</td><td>Area Forest Officer</td><td>Member</td></tr> <tr> <td>6.</td><td>Area Estates Officer</td><td>Member</td></tr> <tr> <td>7.</td><td>Project Manager</td><td>Member</td></tr> <tr> <td>8.</td><td>Project Engineer</td><td>Member</td></tr> <tr> <td>9.</td><td>Project Surveyor</td><td>Member</td></tr> </table> | 1. | SO to General Manager | Chairman | 2. | Project Officer | Member | 3. | Area Engineer (E&M) | Member | 4. | Area Civil Engineer | Member | 5. | Area Forest Officer | Member | 6. | Area Estates Officer | Member | 7. | Project Manager | Member | 8. | Project Engineer | Member | 9. | Project Surveyor | Member |
| 1. | SO to General Manager | Chairman | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Project Officer | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Area Engineer (E&M) | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Area Civil Engineer | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Area Forest Officer | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Area Estates Officer | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Project Manager | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Project Engineer | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Project Surveyor | Member | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RKPOCP HYMR Report from April-2023 to September-2023

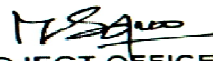
| S.No | Condition | Compliance Status | | | | | | | | | | | | | | |
|--------|--|--|--|--|-----|----------------------|--------|-----|-------------------|-----------|-----|---------------------|--------|-----|---------------------|--------|
| | | <table><tr><td>10.</td><td>Project Env. Officer</td><td>Member</td></tr><tr><td>11.</td><td>Area Env. Officer</td><td>Secretary</td></tr><tr><td>12.</td><td>Sr. Hydro Geologist</td><td>Member</td></tr><tr><td>13.</td><td>Area Survey Officer</td><td>Member</td></tr></table> <p>Environment Management Committee (EMC) meeting was conducted on 26.09.2023 to review all EMP works.</p> | | | 10. | Project Env. Officer | Member | 11. | Area Env. Officer | Secretary | 12. | Sr. Hydro Geologist | Member | 13. | Area Survey Officer | Member |
| 10. | Project Env. Officer | Member | | | | | | | | | | | | | | |
| 11. | Area Env. Officer | Secretary | | | | | | | | | | | | | | |
| 12. | Sr. Hydro Geologist | Member | | | | | | | | | | | | | | |
| 13. | Area Survey Officer | Member | | | | | | | | | | | | | | |
| (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 Regional Office at Chennai. | <p>Being complied.</p> <p>Expenditure incurred on environmental related works is being maintained in separate account and head wise details is being informed regularly to the departments concerned in Half Yearly as well as annual Revenue Expenditure reports.</p> <p>The fund provision for Environmental protection and Management: In order to implement the environmental protection measures, an amount of Rs.160.00 lakhs is proved in capital cost.</p> | | | | | | | | | | | | | | |
| (xiii) | The Regional Office of this Ministry located at Chennai 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>Being complied.</p> <p>Area as well as Corporate Authorities of the company will extend full co-operation whenever authorities seek any information about the project.</p> | | | | | | | | | | | | | | |
| (xiv) | A copy of the letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal. | <p>Complied.</p> <p>A copy of the EC was submitted t to Zilla Parishad, Mancheriyal / Muncipal council, Mandamarri.</p> <p>A copy of the EC letter displayed on company's website i.e., www.scclmines.com.</p> | | | | | | | | | | | | | | |
| (xv) | State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tahsildar's Office for 30 days. | <p>Complied.</p> <p>A copy of the EC letter displayed on the website of the State pollution control board. The EC letter was displayed at the Collector's office / Tahsildars office for 30 days.</p> | | | | | | | | | | | | | | |
| (xvi) | 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 | <p>Complied.</p> <p>The project was granted EC was advertised in Eenadu telugu local language daily paper and Deccan chronicle in English language.</p> <p>A copy of Environment clearance letter was marked to the Member Secretary, TSPCB, Hyderabad.</p> | | | | | | | | | | | | | | |

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| S.No | Condition | Compliance Status |
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| | clearance letter is available with the State Pollution Control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in . | |
| 3) | The ministry or any other competent authority may stipulate any further condition for environmental protections | Agreed. Any further condition stipulated by the ministry or any other competent authority for environmental protections will be complied. |
| 4) | Failure to comply with any of the condition mentioned above may result in withdrawal of this clearance. | Agreed. |
| 5) | The above conditions will be enforced, inter -alia under the provisions of the Water (Prevention & Control Of Pollution) Act – 1974, Air (Prevention & Control Of Pollution) Act – 1981, The Environment (Protection) Act 1986 and the Public Liability Insurance Act 1991 along their amendments and rules. | Complied. The above conditions are being complied as per Water (Prevention & Control of Pollution) Act 1974, The Air (Prevention & Control of Pollution) Act, 1981 The Environment (Protection) Act, 1986. CFE was obtained vide no.60/PCB/CFE/RO-NZB/HO/2010/822, Dt:12.10.2010. CFE Order copy was enclosed as Annexure-IX CFO was obtained vide no. 210522811648, Date:25.02.2021.. CFO Order copy was enclosed as Annexure-X Public Liability Insurance Policy is taken from the New India Assurance Company Ltd under Public Liability Insurance Act, 1991 vide policy No. 61360136233300000001, valid from 30.04.2023 to 29.04.2024, which will be renewed periodically Public Liability Insurance Policy copy was enclosed as Annexure-XI |

MoEF & CC O.M.No.22-34/2018-IA.III, dated:16.01.2020.

| SI No | Condition | Compliance status |
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| 6 | “The mining lease holders shall, after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.” | Will be complied. At the end of mining operations, the mining areas and other areas which were disturbed due to mining will be regrass and restored to the land to a condition which is fit for growth of fodder, flora, fauna etc. |


PROJECT OFFICER
RKOC
Project Officer
RKPOC, MM.