

**ALF YEARLY ENVIRONMENTAL MONITORING REPORT  
APRIL-2023 TO SEPTEMBER-2023  
KALYANI KHANI OPEN CAST PROJECT  
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**

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023



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

Ref: No: MMR/ENV/R/003/23/ 224

Date: 24.11.2023

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

Respected Sir,

Sub: Half yearly Environmental Monitoring report in respect of  
"Kalyani Khani Open Cast Project " for the period April, 2023  
to September, 2023 -reg.

Ref: MoEF (GoI), New Delhi No, J-11015/21/2009-IA-II (M), 19<sup>th</sup>  
March, 2015.

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 "Kalyani Khani Open Cast Project " of the  
Singareni Collieries Company Limited, Mandamarri - (PO), Mancherial-(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.  
Mancherial (Dist), Telangana.

Encl: Half Yearly compliance report of Kalyani Khani  
Open cast project

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

**CONTENTS**

S.No		Page No
1	<b>PART-1</b>	
	• Salient features of the project	4
	• Compliance status of the EC conditions	6
2	<b>PART-II</b>	
	1. Production details	30
	2. Topsoil Management	30
	3. Overburden Management	30
	4. Plantation	30
	5. Water Balance statement	31
	6. Revenue expenditure details	31
	7. Soil Erosion control measures	31
	8. Micro meteorological Monitoring	31
	9. Air pollution control measures	32
	10. Water pollution control measures	32
	11. Water conservation measures	33
	12. Noise pollution control measures	33
	13. Socio economic measures	33
	14. Various training programmes	34
	15. Development activities(CSR) under SHAPE programme in the surrounding villages	36
	16. Medical camps	39
	17. Minutes of EMC Meeting	39
	18. Ground water compliance	41
	19. Issues raised during the public hearing & clarification given by the proponent	42
3.	<b>ANNEXURES</b>	
	Annexure-I Plantation Plan	45
	Annexure-II Ground water quality monitoring data	46
	Annexure-III Peizometric & Phreatic monitoring data	50
	Annexure-IV Escrow Bank statement details	52
	Annexure-V Air quality monitoring data	54
	Annexure-VI Noise quality monitoring data	60
	Annexure-VII Effluents monitoring data	63
	Annexure-VIII Workshop Effluents data	64
	Annexure-IX HEMM vehicular emission monitoring data	65
	Annexure-X Surface water quality monitoring data	69
	Annexure-XI Blasting vibrations monitoring data	72

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023



**THE SINGARENI COLLIERIES COMPANY LIMITED**  
(A Government Company)  
**MANDAMARRI AREA**

**PART – I**

**HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS**  
**DURING THE PERIOD FROM APRIL-2023 TO SEPTEMBER -2023**

**SALIENT FEATURES OF THE PROJECT:**

1	<b>Name of the Project:</b>	: Kalyani Khani Open Cast Project
2	Organization	: S.C.Co.Ltd.
3	Coalfield	: GODHAVARI VALLEY COAL FIELD
4	Type of Mine	: Opencast
5	Technology	: Shovel-Dumper combination
6	<b>Environmental Clearance:</b>	
	i. Letter No & date	: J-11015/21/2009-IA-II(M), Dated:19.03.2015 & MoEF (GoI), New Delhi No.J-11015/21/2009-IA.II (M), dated 2 <sup>nd</sup> May, 2022.
	ii. Sanctioned Capacity	: 1.75 MTPA Normative and 2 MTPA Peak
	iii. Mining Lease Area.	: 945.21 Ha
	iv. Date of Public Hearing	: 13.02.2013
7	<b>Location of the Project:</b>	
	i. Village	: Mandamarri
	ii. Tehasil / Mandal	: Mandamarri
	iii. District	: Mancherial
	iv. State	: Telengana State
	v. Latitude	: North :18° 59' 44" to 19° 03' 42"
	vi. Longitude	: East : 79° 26' 32" to 79° 28' 47"
	vii. Topo Sheet	: No : 56 M/8
	viii. Nearest railway station	: Mandamarri
	ix. Nearest Airport	: Hyderabad Airport
	x. Nearest town	: Bellampalli
8	<b>Address for Correspondence:</b>	
	i.Name	: L Ramesh
	ii. Designation	: Dy. General Manager
	iii. Address	: KKOCP, Post: Mandamarri
	iv. PIN Code	: 504231
	v. E-mail ID	: <a href="mailto:po_kkoc@scclmines.com">po_kkoc@scclmines.com</a>
	vi. Telephone No.	: 9491144249
	vii. Fax No.	: --
9	<b>Life of the Project:</b>	
	i. Date of Opening	: 24.03.2017
	ii. Total Life of the project as per EMP	: 19 years
	iii. Balance Life	: 12 years
10	<b>Seams:</b>	
	i.No. of Seams Present	: 10
11	<b>Depth:</b>	

**KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023**

	i. Minimum Depth	:	25 m
	ii. Maximum Depth	:	230 m
	iii. Present working depth	:	130 m
12	<b>Reserves:</b>		
	i. Total Geological Reserves	:	45.318 MT
	ii. Total Mineable Reserves	:	40.790 MT
	iii. Total Extractable Reserves	:	30.540 MT (10.25 MT of coal extracted by underground mining)
	iv. Reserves already Extracted	:	6.445 MT
	v. Balance Reserves	:	21.27 MT
	vi. Coal production during last 6 months	:	0.759MT
13	<b>Over Burden Mm<sup>3</sup></b>		
	i. Total OB	:	368.04 M.Cu.m
	ii. OB extracted since inception	:	75.599 M.Cu.m
	iii. OB removed in last 6 months	:	8.370 M.Cu.m
	iv. Stripping Ratio	:	1 in 11.87
14	<b>Top Soil</b>		
	i. Total Topsoil	:	7.26 M.Cu.m
	ii. Topsoil extracted since inception	:	1.107M.Cu.m
	iii. Topsoil removed in last six months	:	Nil
15	<b>Land Requirement (in Ha)</b>		
	i. Total Requirement	:	945.21 Ha.
	ii. Forestland Involved	:	Nil
	iii. Non-forestland	:	945.21 Ha.
16	<b>Activity wise Land Requirement</b>	As per EMP (Ha)	Present status (Ha)
	i. Quarry Area	: 363.23	191.74
	ii. External OB Dumps	: 259.44	191.80
	iii. Infrastructures	: 14.02	14.02
	iv. Others	: 308.52	Nallah diversion:20.30 Ha Road diversion:32.78 Ha Safe barrier, drainage, protection bund etc:151Ha
	Total	: 945.21	601.60
17	<b>Statutory Clearances</b>		
	i. Mining Plan Approval	:	MP approved Vide Lr.No.13016/13/2009-CA-II, Dated 03.03.2010.
	ii. Ground Water Clearance	:	Lr.No.157/T/2008, Dated 30-04-2009
	iii. Consent for Establishment	:	04/TSPCB/CFE/RO-NZM/HO/2015/1772, Dt:15.11.2015.
	iv. Consent for Operation	:	Consent order No: 220523624450, Date: 23.05.2022, valid up to 31 <sup>st</sup> March, 2027.
	v. Forest Clearance	:	NA
	vi. Mining Lease	:	It comes under North Godavari Mining Lease area. Procgs.No.1538/M/2003, Dated: 13/08/2003.
	viii. Others (Specify)	:	Nil
18	<b>R &amp; R Involved</b>	:	410 PDFs


**KK0C PROJECT EC COMPLIANCE STATUS OF EC CONDITIONS**  
**AS ON APRIL-2023 TO SEPTEMBER-2023**

(MoEF (GoI), New Delhi No, J-11015/21/2009-IA.II (M), 19<sup>th</sup> March, 2015)


**A. SPECIFIC CONDITIONS:**

Sl. No	Condition	Compliance Status																								
(i)	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	<p><b>Being complied.</b></p> <table border="1" data-bbox="756 478 1390 1150"> <thead> <tr> <th>Coal Production</th> <th>As per EC</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>2017-18</td> <td>Normative-1.75 MTPA Peak- -2.0</td> <td>1.01MT</td> </tr> <tr> <td>2018-19</td> <td>Normative-1.75 MTPA Peak- -2.0</td> <td>0.80MT</td> </tr> <tr> <td>2019-20</td> <td>Normative-1.75 MTPA Peak- -2.0</td> <td>1.75MT</td> </tr> <tr> <td>2020-21</td> <td>Normative-1.75 MTPA Peak- -2.0</td> <td>1.34MT</td> </tr> <tr> <td>2021-22</td> <td>Normative-1.75 MTPA Peak- -2.0</td> <td>1.76 MT</td> </tr> <tr> <td>2022-23</td> <td>Normative-1.75 MTPA Peak- 2.0</td> <td>1.841MTPA</td> </tr> <tr> <td>2023-24 (April 2023 to Sep 2023)</td> <td>Normative-1.75 MTPA Peak- 2.0 MTPA</td> <td>0.758 MT</td> </tr> </tbody> </table>	Coal Production	As per EC	Actual	2017-18	Normative-1.75 MTPA Peak- -2.0	1.01MT	2018-19	Normative-1.75 MTPA Peak- -2.0	0.80MT	2019-20	Normative-1.75 MTPA Peak- -2.0	1.75MT	2020-21	Normative-1.75 MTPA Peak- -2.0	1.34MT	2021-22	Normative-1.75 MTPA Peak- -2.0	1.76 MT	2022-23	Normative-1.75 MTPA Peak- 2.0	1.841MTPA	2023-24 (April 2023 to Sep 2023)	Normative-1.75 MTPA Peak- 2.0 MTPA	0.758 MT
Coal Production	As per EC	Actual																								
2017-18	Normative-1.75 MTPA Peak- -2.0	1.01MT																								
2018-19	Normative-1.75 MTPA Peak- -2.0	0.80MT																								
2019-20	Normative-1.75 MTPA Peak- -2.0	1.75MT																								
2020-21	Normative-1.75 MTPA Peak- -2.0	1.34MT																								
2021-22	Normative-1.75 MTPA Peak- -2.0	1.76 MT																								
2022-23	Normative-1.75 MTPA Peak- 2.0	1.841MTPA																								
2023-24 (April 2023 to Sep 2023)	Normative-1.75 MTPA Peak- 2.0 MTPA	0.758 MT																								
(ii)	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, Whichever is earlier.	<p>The validity of the EC is for the life of the mine. Date of opening: 24.03.2017 Total life of the project as per EMP:19 years Balance life: 12 years</p>																								
(iii)	Coal transportation in pit by Tippers, Surface to siding by Tippers and loading at siding by pay loader.	<p><b>Being complied.</b></p> <p>Coal transportation in pit to surface Pit head CHP is being done by 60T dumpers.</p> <p>From Pit head CHP coal is being transported to RKP CHP by road mode. At RKP CHP coal is being loading into Railway wagons through Pre-weigh bin loading system.</p>																								
(iv)	Mechanical covered truck should be used for transportation of coal within 5 years. Conveyor belt should be installed in the 5 <sup>th</sup> year.	<p><b>Will be complied.</b></p> <p>Transportation of coal through trucks by road mode is extended up to 31<sup>st</sup> December 2023, through EC amendment No: J-11015/21/2009-IA.II(M), Dated: 2<sup>nd</sup> May, 2022.</p> <p>Further, an application has been submitted to MoEF &amp; CC for further extension of coal transportation by road mode to the RKP CHP up to 31<sup>st</sup> October 2025 and of MoEF&amp;CC issued MoM of 48<sup>th</sup> EAC (meeting held on 25.08.2023) and recommended for grant of</p>																								

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023


Sl. No	Condition	Compliance Status
		amendment EC for extending the period up to 31 <sup>st</sup> October 2025.
(v)	The internal dump shall not exceed above 90 m above the ground.	<p><b>Will be complied.</b>                      Internal dump started :- Aug,2019                      Quantity of OB Dumped-70.047 LBCM                      Height of Internal dump is reached to 910 RL. (+30)</p> 
(vi)	The depth of the internal void shall be 35 m from the ground level and should be adequate for fishery purpose.	<p><b>Will be complied.</b>                      The final internal void of the project will be filled or left as water reservoir at final stage and depth of the final void will be restricted to 35 m from the ground level for fishery purpose.</p>
(vii)	Final mine void depth will not be more than 40 m. The void area will be made into fish pond. The rest of the area will be back filled up to the ground level and covered with about a meter thick top soil and put to use.	<p><b>Will be complied.</b>                      The final void of the project will be filled or left as water reservoir at final stage.</p>
(viii)	Requisite permission from irrigation department be obtained for diversion of river/nallah.	<p><b>Complied.</b>                      No objection certificate was obtained from the Executive Engineer, I&amp;CADD. vide Ref: EE/DB/D2/68/SE, Dt:17.06.2016</p>
(ix)	Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.	<p><b>Being complied.</b>                      4.0 Lakh gallon capacity, slow sand filter bed is provided in the project for treating mine discharge water. The treated water is partly used for internal consumption and is supplied to the SCCL colonies and nearby villages for drinking.</p> <p>Balance water is discharged in to the diverted Nallah through settling ponds for agriculture use. Nearly 50 Acres of land is cultivated for paddy with mine discharge water.                      The quality of mine discharge water is being regularly monitored and the parameters are within the stipulated standards.</p>
(x)	The depth of the internal void shall be adequate for fishery purpose.	<p><b>Will be complied.</b>                      The depth of the internal void will be kept adequate for fishery purpose.</p>
(xi)	All safety measures shall be taken as per CMR, 1957 & related Circulars.	<p><b>Being complied.</b>                      All safety measures are being taken as per CMR, 2017 (Earlier CMR, 1957) and related circulars. The</p>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
		respective Regional Director of mines safety & Dy. Director of mines of safety, Hyderabad are making inspections periodically and monitoring the compliance status.
(xii)	The production shall be within the same Mining Lease area.	<b>Being Complied.</b> The coal is being excavated with in the mining lease area only.
(xiii)	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.	<b>Will be complied.</b> OB dumping strategy including re-handling sequence will be followed.
(xiv)	Garland drains be provided.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>➤ Garland drain for a length of 9.371 KM around the quarry is provided.</li> <li>➤ Deck Drains for a length of 2.050 KM for dump1, 9.264 KM for dump2 were provided, around the dumps in the quarry for free flowing of water.</li> </ul> 
(xv)	Appropriate embankment shall be provided along the side of the river/nallahs flowing near or adjacent to the mine.	<b>Complied.</b> Embankment has been made along the sides of diverted nallah for a length of 2.23 km, and the critical patches were strengthened by RC lining at about 300 Mtrs length.
(xvi)	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.	<b>Being complied.</b> Works/activities are being taken up by SCCL every year under CSR such as laying of roads, construction of drains, toilets, providing drinking water facilities, bore wells , power lines ,self development trainings , mobile medical van with qualified doctor & crew, medical camps, etc. Give Amount spent for CSR so far in the area Rs.845.50 Lakhs
(xvii)	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	<b>Being complied.</b> Personnel protective equipment like dust masks are provided to employees working in the core area, to those who are exposed to fine dust for protection






KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
		<p>against fugitive dust emissions. All HEMM and crusher cabins are equipped with Air-conditioning cabins.</p> <div data-bbox="852 352 1295 678" style="text-align: center;">  </div> <p align="center"><b>Workmen with dust mask at Pit Head CHP</b></p>
(xviii)	Dust mask to be provided to everyone working in the mining area.	<p><b>Being complied.</b> Dust masks are provided to employees working in the mining area and exposed to fine dust for protection against fugitive dust emissions.</p>
(xix)	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	<p><b>Being complied.</b> Supervisory staff was advised vide Letter No: MMR/KKOCP/S-0/2019/372 Dt: 14.06.2019 to ensure that employees working in core area are wearing dust masks.</p>
(xx)	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><b>Being complied.</b> 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</p>



KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
		<p>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 XRays in accordance with ILO classification of Pneumoconiosis.</p> <p>Out of a total of 209 Doctors on roll as on date, 123 Doctors 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> <p>45 no's of departmental employees &amp; 183 no's contract employees of Off-loading contractor &amp; other outsourcing contractors were undergone IME/PME during the last six months.</p>
(xxi)	The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.	<p><b>Being complied.</b></p> <p>Green belt along the mine boundary is being carrying. An area of 44.5 ha green belt is provided along the mine boundary.</p>
(xxii)	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 stabilized with plantation so as	<p><b>Complied.</b></p> <p>The external OB Dump is acting itself as embankment between the nallah and the quarry. The front side of nallah is strengthened by RC lining at about 300 Mtrs length and also stabilized with plantation to be stand the peak water flow and to prevent the mine inundation.</p>



KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
	to with stand the peak water flow and prevent mine inundation.	 <p align="center"><b><u>Plantation along the bank of nallah</u></b></p>
(xxiii)	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><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ 8 No's of siltation ponds of size 55mx60mx2m are made along the toe of the dumps.</li> <li>➤ A trench is made all around the quarry .Garland drains, deck drains , settling ponds and rock toe wall for a length of 1.55 km are provided. Further the above are regularly de-silted and maintained properly to avoid the overflow of OB material into river and the agricultural fields.</li> </ul>  
(xxiv)	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of The dump shall not exceed 28°. Monitoring and	<p><b>Being complied.</b></p> <p>OB dumping sequence and the reclamation details.</p>


**KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023**

<b>Sl. No</b>	<b>Condition</b>	<b>Compliance Status</b>																			
	<p>management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forests &amp; Climate Change and its concerned Regional Office on yearly basis.</p>	<table border="1" data-bbox="735 254 1406 415"> <thead> <tr> <th data-bbox="735 254 902 317">Details of dump</th> <th data-bbox="902 254 1070 317">Area (Ha)</th> <th data-bbox="1070 254 1237 317">Quantity (M. Cu. M)</th> <th data-bbox="1237 254 1406 317">Height in (M)</th> </tr> </thead> <tbody> <tr> <td data-bbox="735 317 902 348">Ext. Dump</td> <td data-bbox="902 317 1070 348">191.80</td> <td data-bbox="1070 317 1237 348">86.53</td> <td data-bbox="1237 317 1406 348">+90</td> </tr> <tr> <td data-bbox="735 348 902 380">Int. Dump</td> <td data-bbox="902 348 1070 380">52.43</td> <td data-bbox="1070 348 1237 380">14.23</td> <td data-bbox="1237 348 1406 380">+30</td> </tr> <tr> <td data-bbox="735 380 902 415"></td> <td data-bbox="902 380 1070 415"></td> <td data-bbox="1070 380 1237 415"></td> <td data-bbox="1237 380 1406 415"></td> </tr> </tbody> </table> <p>OB is stacked in the earmarked external &amp; Internal dump yards with overall slope not exceeding 28°.</p> <p>The status of progressive reclamation in the mine is being submitted to the Regional Office of MoEF &amp; CC on half yearly basis.</p> <div data-bbox="776 659 1367 932" style="text-align: center;">  </div>				Details of dump	Area (Ha)	Quantity (M. Cu. M)	Height in (M)	Ext. Dump	191.80	86.53	+90	Int. Dump	52.43	14.23	+30				
Details of dump	Area (Ha)	Quantity (M. Cu. M)	Height in (M)																		
Ext. Dump	191.80	86.53	+90																		
Int. Dump	52.43	14.23	+30																		
(xxv)	<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. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rain fall 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.</p>	<p><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ Garland drain for a length of 9.371 KM around the quarry is provided.</li> <li>➤ Deck Drains for a length of 2.050KM for dump1 , 9.264 KM for dump2 were provided around the dumps, in the quarry for free flowing of water.</li> <li>➤ Drains are cleared of debris before start of monsoon as part of annual monsoon preparation.</li> </ul> <p>8 no's of siltation ponds of size 55mx60mx2m are made along the toe of the dumps to avoid silt &amp; sediment flows from dump slopes .</p> <ul style="list-style-type: none"> <li>➤ KKOCP is a day light project and the underground galleries are available to store bulk water as sump and 2 Nos of submersible pumps (350 HP capacity each) are in operation to deal the situation.</li> </ul> <div data-bbox="776 1650 1367 1940" style="text-align: center;">  </div>																			

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
(xxvi)	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><b>Being complied.</b></p> <p>Retaining wall at the toe of the dump is provided for a length of 1.55 kms.</p>
(xxvii)	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.	<p><b>Partially complied.</b></p> <ul style="list-style-type: none"> <li>➤ Sensor activated water spraying arrangements &amp; mist spray arrangements are made at Pit Head CHP.</li> <li>➤ 2 Nos of 28 KL &amp; 4 No's of 20 KL capacity water sprinklers are being deployed for dust suppression on haul roads ,approach roads and dumps, etc.</li> </ul> <div style="text-align: center;">  <p>Mist spraying at crusher</p> </div> <div style="text-align: center;">  <p>Anti-Smog</p> </div>
(xxviii)	Drills shall be wet operated.	<p><b>Being complied.</b></p> <p>Drills are being working with wet operation.</p>
(xxix)	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.	<p><b>Being complied</b></p> <p>The complete coal transport road is black topped and regular repairing and tarring of coal transport is being done by SCCL at regular intervals. A 3-Tier green belt comprising of a mix of native species is developed all along the major approach roads.</p>
(xxx)	Controlled blasting shall be practiced with use of delaydetonators and only during daytime. The mitigative measures for control of ground	<p>Controlled blasting with Nonels is being carried out in order to mitigate ground vibrations, fly rock, noise and air blast.</p> <p>Regular monitoring is being carried out by recording the blast induced ground vibrations in terms of Peak</p>



**KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023**

<b>Sl. No</b>	<b>Condition</b>	<b>Compliance Status</b>												
	vibrations and to arrest the fly rocksand boulders shall be implemented.	Particle Velocity (PPV) and air over pressure in terms of Hz & dB with the help of seismograph (Minimate) and the monitored results are well within permissible limits. Rock breaker is provided for breaking of boulders instead of secondary blasting.												
(xxxii)	A progressive afforestation plan shall be implemented covering an area of 683.02 ha at the end of mining, which includes reclaimed External OB dump area (238.04 ha), internal OB dump area (172.80 ha), along roads and green belt (272.18 ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agricultural Department. The density of the tree shall be around 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.	<p><b>Being complied</b> The progressive afforestation plan is being implementing at the mine. In town ships located out side the lease is being planting in consultation with the local DFO.</p> <p>Progressive plantation within the lease hold Area - 190.76 ha Progressive plantation out side the lease area- 444.80 ha Total area of the green belt: 631.56</p> <p>Plantation plan was ecnclosed as <b>Annexure-I</b></p>  <p align="center">Block Plantation</p>												
(xxxiii)	An estimated total 358.22Mm <sup>3</sup> of OB will be generated during the entire life of mine. Out of which 112.05 Mm <sup>3</sup> of OB will be dumped in three external OB Dumps an earmarked area covering 248.74 ha of land with height of 90 m. 246.18 Mm <sup>3</sup> of will be one internal OB dump in covering an area of 217.18 ha with height of 90 m. The maximum height of external OB dump for hard OB will not exceed 90 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.	<p><b>Being complied</b></p> <p>OB is being dumped at external dump sites as envisaged in the approved EMP.</p> <p>Dump is planned for a maximum height of 90 m with three decks of each deck height not more than 30 m.</p> <p>So far OB is dumped at external dump sites in an earmarked area covering 191.80 Ha. The ultimate slope of the dump is less than 28 degrees.</p> <table border="1" data-bbox="737 1579 1403 1709"> <thead> <tr> <th>Details of dump</th> <th>Area in (Ha)</th> <th>Quantity in (M. Cu. M)</th> <th>Height in (M)</th> </tr> </thead> <tbody> <tr> <td>Ext. Dump</td> <td>191.80</td> <td>78.143</td> <td>+90</td> </tr> <tr> <td>Int. Dump</td> <td>45.00</td> <td>6.826</td> <td>Surface level</td> </tr> </tbody> </table>	Details of dump	Area in (Ha)	Quantity in (M. Cu. M)	Height in (M)	Ext. Dump	191.80	78.143	+90	Int. Dump	45.00	6.826	Surface level
Details of dump	Area in (Ha)	Quantity in (M. Cu. M)	Height in (M)											
Ext. Dump	191.80	78.143	+90											
Int. Dump	45.00	6.826	Surface level											
(xxxiii)	The proponent should prepare	<b>Will be complied.</b>												

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
	restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	The restoration and reclamation envisaged in EMP plan is being implemented. The land diverted for project is being used in a productive and sustainable manner.
(xxxiv)	Compensatory Ecological Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	<b>Will be complied.</b> Compensatory Ecological Restoration of waste land, other degraded land and OB dumps is being done. Plantation was done in the outside of the lease area is 444.8 ha.
(xxxv)	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	<b>Being complied.</b> The mining is being done in a phased and in sustainable manner and OB dumping is being done in external dumps as envisaged in approved EMP. No extra overburden dumps are planned for this project.
(xxxvi)	No groundwater shall be used for mining operations.	<b>Being complied.</b> Ground water is not being used for mining operations. A minimum quantity of mine discharge water is being used for washing, drinking and dust suppression purpose.
(xxxvii)	Of the total quarry area of 363.23ha. the backfilled quarry area of 172.80hab shall be reclaimed with plantation and a void of 190.43 ha at a depth of 36m which is proposed to be converted into a water body 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 ha.	<b>Will be complied.</b> It will be strictly complied during final stage of the quarry.
(xxxviii)	Regular monitoring of ground water 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 collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control	<b>Being complied.</b> <ul style="list-style-type: none"> <li>➤ Regular monitoring of ground water levels is being carried out around the project.</li> <li>➤ A monitoring network is established with six nos.(6) of piezometers constructed for the purpose and with 14 No's of existing open wells. The season wise monitoring is being done.</li> <li>➤ The piezometric &amp; phreatic levels monitoring data is being submitted to the ministry of environment, Forests &amp; climate change &amp; central pollution control board along with half yearly monitoring reports.</li> </ul>

**KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023**

<b>Sl. No</b>	<b>Condition</b>	<b>Compliance Status</b>
	Board quarterly within one month of monitoring.	<ul style="list-style-type: none"> <li>➤ Ground water quality &amp; levels are furnished in the <b>annexure-II &amp; III</b> respectively.</li> </ul> <div style="text-align: center;">  <p><b>Peizometer</b></p> </div>
(xxxix)	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 requirement of nearby village(s) incase the village wells go dry due to dewatering of mine.	<p><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ As per the ground water budgeting carried out for the above project, the project area is categorized under “Safe” category (as Per the GEC-1997 norms. Where the groundwater development is less than or equal to 70%). 14 open wells and six Piezometric wells are being monitored for ground water levels four seasons in a year on long term basis.</li> <li>➤ There is no indication of declining trend in these observation wells. About 8 numbers of rainwater harvesting pits are developed within the mine take area.</li> <li>➤ Excess mine discharge about 2600 KLD water is let out in to Village Mandamarri water pond and nearby water bodies which is augmenting ground water recharge and also being used by local villagers for irrigation. Drinking water is being supplied to nearby areas like Dubbagudem, Bharat colony, part of mandamarri municipality and Somagudem grampanchayat.</li> </ul>
(xl)	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	<p>Sewage treatment plant was constructed at Pranahitha colony and commissioned on 12.04.2023</p> <p>ETP was constructed at Area Workshop and Base workshop of KKOC.</p> <div style="text-align: center;">  <p><b>ETP AT BASE WORKSHOP</b></p> </div>



KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Sl. No	Condition	Compliance Status
		 <p align="center"><b>STP AT PRANAHITHA COLONY (100 KLD CAPACITY)</b></p>
(xli)	<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 a specialized agency /institution within the District/state and the results reported to this Ministry and to DGMS.</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 gynecologists, 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 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</p>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023




Sl. No	Condition	Compliance Status
		<p>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> <p>During the last six months 45 no's employees are undergone for Periodical medical examination.</p>
(xlii)	<p>Land oustees shall be compensated as per the norms laid out R&amp;R Policy of CIL or the National R&amp;R Policy or R&amp;R Policy of the State Government whichever is higher.</p>	<p><b>Will be complied.</b></p> <p>R&amp;R policy of the state govt. (which is the highest among the three) is being implemented.</p> <p>Name of the affected village: Dubbagudem, No of PDF's Aprox. 4, No'.of PAF's 1039.</p> <p>R&amp;R site is acquired at Peddanapalli village, Kasipet Mandal.</p> <p>Status: To be sent for Gezette publication of the Displaced families (SES Data) to R&amp;R, Commissioner by the LAO,BPA through District Collector . Mancherial, Then after Disbursement of R&amp;R Benefits, Under Progress</p>
(xliii)	<p>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 MOEFCC and its concerned Regional Office.</p>	<p><b>Being complied.</b></p> <p>Monitoring of Land use and Land cover is being carrying once in three years. The monitoring report was carried in the year 2020 has been submitted to the MoEF &amp; CC, Chennai vide Ir No: MMR/ENV/G-6/2021/13, Date:25.02.2021.</p>
(xliv)	<p>A detailed Final Mine Closure Plan along with details of</p>	<p><b>Agreed to comply.</b></p>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023


Sl. No	Condition	Compliance Status
	Corpus Fund shall be submitted to the Ministry of Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.	<p>Amount deposited in ESCROW account up to 31.03.2023 is Rs.26,73,40,000 balance amount in ESCROW account till now is Rs. 30,28,04,899.</p> <p>A copy of the ESCROW agreement and bank statement showing amount in the ESCROW account is furnished in <b>Annexure-IV</b></p> <p>The Final Mine Closure Plan will be submitted after approval by MoC five years before the closure of the mine.</p>
(xlv)	The project authorities shall in consultation with the Panchayat's 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.	<p>Socio - economic and welfare measures under CSR is being carrying during the life of the mine as per the Panchayat's / MLA/MLC etc.,</p> <p>The CSR expenditure Rs: 1481.81 spent during last 5 years from 2015-16 to 2021-22.</p>
(xlvi)	<p><b>Corporate Environment Responsibility:</b></p> <p>a) The company shall have a well laid down Environment Policy approved by the Board of Directors.</p> <p>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.</p> <p>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.</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>	<p><b>Being complied.</b></p> <p>Environmental policy of SCCL and Objectives of Environmental Policy have been approved by Board of Directors in its meeting held on 11.11.2011.</p> <p>For effective implementation of environmental policy and its objectives, guidelines have been framed in different facets of environmental management for bringing uniformity in planning, execution and monitoring systems thereby ensuring environmentally sustainable coal mining operations.</p> <p>The Environmental Policy, objectives and guidelines were circulated to all the mines, departments and other units for implementation. Also, necessary arrangements were made for display of the same at the conspicuous places for bringing awareness among the employees of SCCL.</p> <p>Standard operating procedures are in place for bringing out deviations/ violations of environmental or forest norms/conditions and hierarchical system of the company to deal with environmental issues and for ensuring compliance with EC conditions.</p>

**B. GENERAL CONDITIONS**

Cond. 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, Forest & Climate Change.	<p><b>Being complied.</b></p> <p>No change has been made in the methodology of working and the scope of working.</p>																								
(ii)	No change in the calendar plan of production for quantum of mineral coal shall be made.	<p><b>Being complied.</b></p> <p>No change in the calendar plan has been made.</p> <table border="1" data-bbox="776 604 1425 1129"> <thead> <tr> <th>Coal Production</th> <th>As per EC</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>2017-18</td> <td>Normative-1.75 MTPA Peak- -2.0 MTPA</td> <td>1.01MT</td> </tr> <tr> <td>2018-19</td> <td>Normative-1.75 MTPA Peak- -2.0 MTPA</td> <td>0.80MT</td> </tr> <tr> <td>2019-20</td> <td>Normative-1.75 MTPA Peak- -2.0 MTPA</td> <td>1.75MT</td> </tr> <tr> <td>2020-21</td> <td>Normative-1.75 MTPA Peak- -2.0 MTPA</td> <td>1.34MT</td> </tr> <tr> <td>2021-22</td> <td>Normative-1.75 MTPA Peak- -2.0 MTPA</td> <td>1.76 MT</td> </tr> <tr> <td>2022-23</td> <td>Normative-1.75 MTPA Peak- 2.0 MTPA</td> <td>1.841MTPA</td> </tr> <tr> <td>2023-24 (April 2023 to Sep 2023)</td> <td>Normative-1.75 MTPA Peak- 2.0 MTPA</td> <td>0.758 MT</td> </tr> </tbody> </table>	Coal Production	As per EC	Actual	2017-18	Normative-1.75 MTPA Peak- -2.0 MTPA	1.01MT	2018-19	Normative-1.75 MTPA Peak- -2.0 MTPA	0.80MT	2019-20	Normative-1.75 MTPA Peak- -2.0 MTPA	1.75MT	2020-21	Normative-1.75 MTPA Peak- -2.0 MTPA	1.34MT	2021-22	Normative-1.75 MTPA Peak- -2.0 MTPA	1.76 MT	2022-23	Normative-1.75 MTPA Peak- 2.0 MTPA	1.841MTPA	2023-24 (April 2023 to Sep 2023)	Normative-1.75 MTPA Peak- 2.0 MTPA	0.758 MT
Coal Production	As per EC	Actual																								
2017-18	Normative-1.75 MTPA Peak- -2.0 MTPA	1.01MT																								
2018-19	Normative-1.75 MTPA Peak- -2.0 MTPA	0.80MT																								
2019-20	Normative-1.75 MTPA Peak- -2.0 MTPA	1.75MT																								
2020-21	Normative-1.75 MTPA Peak- -2.0 MTPA	1.34MT																								
2021-22	Normative-1.75 MTPA Peak- -2.0 MTPA	1.76 MT																								
2022-23	Normative-1.75 MTPA Peak- 2.0 MTPA	1.841MTPA																								
2023-24 (April 2023 to Sep 2023)	Normative-1.75 MTPA Peak- 2.0 MTPA	0.758 MT																								
(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ The network of four ambient air quality monitoring locations has been identified in consultation with the Regional Office of TSPCB, covering core and buffer zone of the project, basing on meteorological parameters. AAQ stations are as follows.               <ol style="list-style-type: none"> <li>1. KKOC pit office (Core Zone)</li> <li>2.KKOC base work shop (Buffer Zone)</li> <li>3.Patha Bellampalli (Buffer Zone)</li> <li>4.Akenapalli( Buffer Zone)</li> <li>5.Erraguntapalli(Buffer Zone)</li> </ol> </li> <li>➤ Also, heavy metals such as Hg, As, Ni, Cd, Cr concentration is being monitored in coal and particulate matter once in six months.</li> <li>➤ A continuous air quality online monitoring station is established in core zone of the project and it is connected to TSPCB website.The monitoring is being carried out by external agency i.e “Environment Protection Training and research Institute” (EPTRI), Hyderabad</li> </ul>																								

Cond. No.	Condition	Compliance Status
		<div data-bbox="857 382 1328 655" style="text-align: center;">  <p><b>Air Quality Monitoring stations</b></p> </div> <div data-bbox="844 751 1341 1066" style="text-align: center;">  <p><b>Continuous Ambient Air Quality Monitoring station</b></p> </div> <div data-bbox="802 1163 1383 1415" style="text-align: center;">  <p><b>Continuous Ambient Air Quality Monitoring station Display Unit</b></p> </div>
(iv)	<p>Data on ambient air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>) 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 recognized under</p>	<p><b>Being complied.</b></p> <p>Data on ambient air quality (PM<sub>10</sub> to, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data is being regularly submitted to the ministry including it's concerned regional office and to the state pollution control board once in six months along with half yearly reports.</p> <p>Air Monitoring data was enclosed as <b>Annexure-V</b></p>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Cond. No.	Condition	Compliance Status
	the EPA rules, 1986 shall be furnished as part of compliance report.	
(v)	Adequate measures shall be taken for control 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.	<p><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ The periodic planned preventive maintenance &amp; engine tuning of HEMM and other transport vehicles is being done at regular intervals as per schedules submitted by OEM to keep the noise levels below 85 dBA.</li> <li>➤ The persons engaged in high noise work environment provided cabins or other than cabins persons ear plugs are provided.</li> </ul> <p>Noise Levels Monitoring data was enclosed as <b>Annexure-VI.</b></p>
(vi)	Industrial waste water (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 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	<p><b>Being complied.</b></p> <ul style="list-style-type: none"> <li>➤ The Base Work shop is provided with ETP with oil and grease trap.</li> <li>➤ The quality of treated work shop effluents is being monitored and the results are within the limits prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup>December 1993.</li> </ul> <p>Mine Discharge water &amp; Base Workshop Effluents Quality Monitoring data was enclosed as <b>Annexure-VII &amp; VIII</b> respectively.</p>
(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><b>Being complied.</b></p> <p>Maintenance of Heavy Earth Moving Machinery is being done as per the manufacturer's schedules in order to control vehicle exhaust emissions. Vehicular exhaust emissions are being monitored on six monthly bases and the HEMM not meeting the desired standards are being taken up for necessary maintenance. Vehicles used for transporting the coal are being covered with tarpaulins and optimally loaded.</p> <p><u>Vehicular emission test results are furnished in <b>annexure-IX</b></u></p>  <p align="center">Checking vehicular emission</p>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Cond. No.	Condition	Compliance Status
(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.	<p><b>Being complied.</b></p> <p>The post project env. Monitoring stations are identified in consultation with Regional Office, Telangana State Pollution Control Board, Nizamabad based on the meteorological data, topographical features and environmentally and ecologically sensitive targets.</p> <p>Post project environmental monitoring work is being carried out by an external agency, i.e. “Environmental Protection Training and Research Institute” (EPTRI), Hyderabad which has a CPCB recognized &amp; NABL accredited lab (recognized under EPA Rules, 1986).</p> <p>A regional environmental laboratory for Bellampalli region was established by M/s EPTRI at Mandamarri for monitoring of critical parameters.</p>
(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.	<p><b>Being complied.</b></p> <p>Personnel working in dusty areas are being provided dust masks and adopting job rotation practice. Training and information on safety and health aspects are being given through Internal Safety Organization and Mine Vocational Training Centers.</p>
(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.	<p><b>Being complied.</b></p> <p>The SCCL has well-established health centers with qualified doctors &amp; with all facilities as per NIOH, Ahmedabad (Occupational health specialist in each area for monitoring and identification of occupational diseases.</p> <p>10% of workers identified from work force engaged in active mining operations are being examined for occupational diseases and hearing impairment</p> <p>45 nos of departmental employees &amp; 183 no's contract employees of Off-loading contractor &amp; other outsourcing contractors were undergone IME/PME.</p> <p>During the last six months The quality of environment due to outsourcing, the health and safety issues of the outsourced manpower are being addressed by the company while awarding the work to the contractor and compliance status of terms &amp; conditions of the work order (including environment , health &amp; safety issues) being monitored regularly by project authority.</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><b>Complied.</b></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>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Cond. No.	Condition	Compliance Status																																							
		<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" data-bbox="813 636 1425 1104"> <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&amp;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> <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>	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	10.	Project Env. Officer	Member	11.	Area Env. Officer	Secretary	12.	Sr. Hydro Geologist	Member	13.	Area Survey Officer	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																																							
10.	Project Env. Officer	Member																																							
11.	Area Env. Officer	Secretary																																							
12.	Sr. Hydro Geologist	Member																																							
13.	Area Survey Officer	Member																																							
(xii)	<p>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>	<p><b>Being complied.</b></p> <p>The funds (Rs.112.73 Crores) earmarked for the environmental safeguards are being kept in separate account and are being spent for environmental protection works only. The year wise environmental expenditure is being submitted along with half yearly reports to the ministry and it's regional office of MoEF&amp;CC.</p>																																							
(xiii)	<p>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, Forests &amp; Climate</p>	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>➤ The matter i.e. the project was granted EC was advertised in Andhra Prabha(telugu) and The Hans India(English) News papers on 10.04.2015.</li> <li>➤ A copy of environment clearance letter was marked to the member secretary, TSPCB, Hyderabad.</li> </ul>																																							



KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Cond. No.	Condition	Compliance Status
	Change at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	
(xiv)	A copy of the environmental clearance letter shall be marked to concern Panchayat/ Zilla 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.	A copy of the EC was submitted to Zilla Parishad, Mancheriyal/Municipal council, Mandamarri.  A copy of the EC letter displayed on company's website i.e www.scclmines.com
(xv)	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.	<b>Complied.</b>  ➤ A copy of the EC letter was displayed on the website of the State Pollution Control Board. The EC letter was displayed at the Collector's office/ Tehsildar's office for 30 days.
(xvi)	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 monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> (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.	<b>Complied.</b>  The Environment Clearance letter is displayed on company's website i.e.www.scclmines.com.  The compliance status of the stipulated environmental clearance conditions is being updated once in every six months and updated half yearly monitoring report is being uploaded once in every six months on company's website i.e. www.scclmines.com., so as to bring the same in public domain.  The monitoring data of environmental quality parameters (Air, SW, GW, effluents, Noise, etc) and critical pollutants such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , and NO <sub>x</sub> (ambient air) and critical sectorial parameters are being displayed at the entrance of the project premises and mine office and in corporate office and on company's website i.e.www.scclmines.com.
(xvii)	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 CPCB and the SPCB.	<b>Being complied.</b>  The updated half-yearly monitoring reports on status of compliance of the stipulated Environmental Clearance conditions is being submitted once in every six months to the MoEF&CC and TSPCB.

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

<b>Cond. No.</b>	<b>Condition</b>	<b>Compliance Status</b>
(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.	<b>Being complied.</b>  SCCL is extending full cooperation during inspection of projects by officials of MoEF & CC, Regional Office and providing all the information relating to compliance of EC conditions and other environmental safeguards taken up by the organization.
(xix)	The Environmental Statement for each financial year ending 31 March in Form -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 by e-mail.	<b>Being complied.</b>  The environmental statement for each financial year ending 31 <sup>st</sup> march in Form-V is being submitted to the concerned State Pollution Control Board as prescribed under the environment (Protection ) Rules, 1986, as amended subsequently. The environmental -statement in Form -V is being uploaded on the company's website i.e <a href="http://www.scclmines.com">www.scclmines.com</a> ., along with the status of compliance of EC conditions and is being submitted to the respective regional offices of the MoEF & CC by e-mail once in six months.  The environment statement for the financial year 2022-23 was submitted vide Ir No. MMR/ENV/R/001/2023/168, Date: 29.09.2023.
5.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	<b>Agreed.</b>  The commitments and recommendations which were made in the EIA/EMP was complying strictly.
6.	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	<b>Agreed.</b>  The issues was raised during the public hearing is being implementing.
7.	The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	<b>Agreed.</b>  The project operations are started after obtaining all necessary clearance /approvals (CFE order No: 04/TSPCB/CFE/RO-NZM/HO/2015/1772, Dt: 15.11.2015 & CFO order No:TSPCB/RCP/NZB/CFO/HO/CFO/2017-Dt:09.05.2017. If any further condition is stipulated by the ministry or by other competent authority for environmental protection, the same will be obeyed & complied.
8.	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	<b>Agreed.</b>  If any further condition is stipulated by the ministry or by other competent authority for environmental protection, the same will be obeyed & complied.
9.	The Proponent shall set up an Environment Audit cell with	<b>Complied.</b>

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

Cond. No.	Condition	Compliance Status																								
	responsibility and accountability to ensure implementation of all the EC Conditions.	<p>An area level environment audit cell is set up with the following members under the chairmanship of SO to GM of area.</p> <table border="1" data-bbox="776 352 1370 646"> <thead> <tr> <th>S. No</th> <th>Designation</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SO to GM</td> <td>Chairman</td> </tr> <tr> <td>2</td> <td>Area Engineer (E&amp;M)</td> <td>Member</td> </tr> <tr> <td>3</td> <td>DGM(civil)</td> <td>Member</td> </tr> <tr> <td>4</td> <td>Area Env Officer</td> <td>Member</td> </tr> <tr> <td>5</td> <td>Dy. Mgr(Forestry)</td> <td>Member</td> </tr> <tr> <td>6</td> <td>Jr. Accounts Officer(JAO)</td> <td>Member</td> </tr> <tr> <td>7</td> <td>Sr. Hydro-Geologist</td> <td>Member</td> </tr> </tbody> </table> <p>The above audit cell is meeting once in a year and auditing the condition wise compliance status of all the EC conditions. The above audit committee prepares environment audit report and advice project authority to initiate action for compliance of conditions of the EC after conducting meeting.</p>	S. No	Designation		1	SO to GM	Chairman	2	Area Engineer (E&M)	Member	3	DGM(civil)	Member	4	Area Env Officer	Member	5	Dy. Mgr(Forestry)	Member	6	Jr. Accounts Officer(JAO)	Member	7	Sr. Hydro-Geologist	Member
S. No	Designation																									
1	SO to GM	Chairman																								
2	Area Engineer (E&M)	Member																								
3	DGM(civil)	Member																								
4	Area Env Officer	Member																								
5	Dy. Mgr(Forestry)	Member																								
6	Jr. Accounts Officer(JAO)	Member																								
7	Sr. Hydro-Geologist	Member																								
10.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Agreed.</b>																								
11.	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of ground water and surface water, and occupational and	<b>Agreed.</b>																								

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023


Cond. No.	Condition	Compliance Status
	other diseases due to the mining operations.	
12.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Agreed.</b> No appeal was made in NGT within 30 days of issue of this EC.

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

SI No	Condition	Compliance status
1	“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.”	<b>Will be complied.</b> 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.

KKOCP HYMR REPORT FROM APRIL-2023 TO SEPTEMBER-2023

MoEF (GoI), New Delhi No J-11015/21/2009-IA.II(M), Dated:24<sup>th</sup> January, 2020.

S. No	EC condition	Status of compliance
(i)	EAC desired that the MOC/State Govt. of Telangana may direct SCCL to comply the EC/FC/CTO conditions strictly within certain time bound manner so that the mining operations will be environmentally sustainable/viable etc.	<p><b>Being Complied.</b></p> <p>SCCL is complying all the conditions in the Environment clearance and Consent for Operation.</p> <p>No Forest land involved in the project.</p>
(ii)	Also all the mitigation measures proposed during appraisal shall be implemented with additional conditions of planting 50,000 nos of fruit bearing trees (broad leaves) along the transportation route and around the nearby villages to reduce the air pollution.	<p><b>Being complied.</b></p> <p>All mitigation measures which were proposed during appraisal is being complied. The plantation was already existing along the transportation road and Plantation work will be done at vacant places and around the nearby villages. The plantation work is awarded to off loading agency, it will be carried as per schedule.</p> <div data-bbox="873 827 1352 1136" style="text-align: center;">  <p>Existing plantation along the coal transportation road from Kalyankhari Opencast project to RKP CHP, Mandamarri Area</p> </div>
(iii)	State Pollution Control Board, while considering consent to operate for the project, shall ensure that with the proposed coal transportation by road air quality would remain within the national ambient air quality standards.	<p><b>Being complied.</b></p> <p>Air quality monitoring is being carrying regularly once for every fortnight in the core zone and Buffer zone. The air quality analysis results are within the natural ambient air quality standards. The analysis report of air quality is being submitting regularly to the State Pollution Control Board and to the MoEF &amp; CC</p>
iv)	Project proponent shall submit quarterly progress report on progress for implementation of railway siding to the Ministry and its concerned Regional office	<p><b>It is being followed.</b></p>

  
 PROJECT OFFICER  
 KKOCP  
 KK OCP