



THE SINGARENI COLLIERIES COMPANY LIMITED

(A GOVERNMENT COMPANY)

Registered Office

Kothagudem Collieries (P.O) - 507 101, Bhadradi Kothagudem Dist, Telangana State

CIN: U10102TG1920SGC000571

Environment Dept., Srirampur Area

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Ref.No: SRP/ENV/E-417/2023/347

Date: 25.11.2023.

"By Regd. Post with ACK due"

To

The Director,

Ministry of Environment, Forests & Climate Change (MoEF &CC),
Integrated Regional Office, Hyderabad.

3rd Floor, Aranya Bhawan, Opp, RBI, Saifabad,
Hyderabad- 500 004.

Sir,

Sub: Half yearly Environmental monitoring Report in respect of **RK-5** Incline
underground coal mine expansion Project of SCCL for the period April,2023
to September,2023 - Reg.

Ref : **MoEF Lr.No. J-11015/306/2007-1A.II(M), dated. 24.10. 2008.**

Reference to the MoEF Environmental clearance(E.C) letter cited above, please
find enclosed herewith the Half yearly Environmental Monitoring report for the period
ending 30.09.2023 in respect of **RK-5** Incline Underground Coal Mine expansion Project
of SCCL in the form of Soft Copy.

The report consists of Part -I which indicates the status of implementation of
environmental clearance conditions and Part-II indicates the various pollution control
measures, annexure and analysis data being taken.

Thanking you,

Yours faithfully,



S. S. S. S.
General Manager,
Srirampur Area.
General Manager
SRIRAMPUR

Encl: As above.

C.C. : The Environmental Engineer,
Telangana State Pollution Control Board,
Regional Office, H.No: 6-2-166/A, Subhash Nagar,
Nizamabad - 503 002.

**HALF YEARLY COMPLIANCE REPORT ON
ENVIRONMENTAL CLEARANCE CONDITIONS**

AS ON 30th SEPTEMBER, 2023

**FOR RAVINDRA KHANI – 5 INCLINE UNDER GROUND COAL MINE
NEAR SRIRAMPUR VILLAGE, MANCHERIAL DISTRICT, TELANGANA STATE**



THE SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
SRIRAMPUR AREA

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THE SINGARENI COLLIERIES COMPANY LIMITED


(A Government Company)
SRIRAMPUR AREA

PART-I

HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS AS ON 30TH SEPTEMBER, 2023.


A. SALIENT FEATURES OF THE PROJECT:

1	Name of the Project	:	Ravindra Khani – 5 (RK-5) Incline Underground Coal Mine Expansion Project.
2	Organization	:	Singareni Collieries Company Limited
3	Coalfield	:	Godavari Valley Coal Field
4	Type of Mine	:	Underground Coal Mine
5	Technology	:	Bord and pillar method with SDLs.
6	Environmental Clearance	:	
	A Letter No & date	:	EC. No: J-11015/306/2007-1A.II (M), dtd. 24 th October, 2008.
	B Sanctioned capacity	:	0.5 MTPA
	C Mining Lease Area	:	376.20 Ha.
	D Date of Public Hearing	:	12.03.2008
7	Location of the Project	:	
	A Village	:	Naspur, Tallapalli, Kankur
	B Tehasil	:	Mancherial and Jaipur
	C District	:	Mancherial
	D State	:	Telangana State
	E Latitude	:	N 18 ^o 52' 48" to 18 ^o 53' 56"
	F Longitude	:	E 79 ^o 30' 08" to 79 ^o 30' 50"
	G Topo Sheet	:	56/9
	H Nearest railway station	:	Mancherial
	I Nearest Airport	:	Hyderabad
	J Nearest town	:	Mancherial
8	Address for Correspondence	:	
	A Name	:	A.V.Reddy
	B Designation	:	Agent
	C Address	:	O/o Agent, RK-5 & 6 group of Mines, Coal Chemical Complex (Post) Naspur (Mandal), Mancherial (District) Telangana State
	D Pin Code	:	504 302.
	F E-mail ID	:	agt_rk5n6_srp@scclmines.com
	G Telephone No.	:	Mobile No:9491144692
	H Fax No.	:	08736 - 238222
9	Life of the Project	:	
	A Date of Opening	:	06.04.1975.
	B Total Life of the project as per EMP	:	20Years (EC dated 24.10.2008)
	C Balance Life	:	03 Years
10	Seams	:	
	A Total Seams Present	:	08 No's
	B Seams being worked	:	05 (2A, 2,3, 4 and 5Seam)
11	Depth	:	
	A Minimum Depth (m)	:	39 m.
	B Maximum Depth (m)	:	168 m


	C	Present working depth (m)	: 95.00 m
12	Reserves		:
	A	Total Geological Reserves	: 47.047 MT
	B	Total Extractable Reserves	: 17.500 MT
	C	Reserves already Extracted	: 17.154 MT
	D	Balance Reserves	: 0.198MT
	E	Coal production during last six months	: 0.148 MT
13	Land Requirement		:
	A	Total Requirement (Mine Take Area)	: 376.20 Ha.
	B	Forestland Involved	: 342.00 Ha.
	C	Non-forestland	: Nil
	D	Land acquired so far (Surface rights)	: 39.05 Ha. (34.20 Ha. SCCL acquired Forest land before enactment of FC Act, 1980) (4.85 Ha. for RK-5B additional mine SCCL acquired Vide order No. 8-72/93-FC Dt. 23.02.1996)
		i) Built -up Area.	: 4.58 Ha.
		ii) Plantation Area.	: 34.20 Ha.
		iii) Vacant Land.	: --
14	Statutory Clearances		:
	A	Ground Water Clearance	: Lr. No. 149/T/SCCL/2022, dated.20.03.2022.
	B	Consent for Establishment	: Order No: 47/PCB/CFE/RO-NZB/HO/2009-1073, dtd.20.07.2009.
	C	Consent for Operation	: Consent Order No: TSPCB/RCP/NZB/ CFO/ 210522943403, dtd.15.09.2021 valid upto 30.06.2026.
	D	Forest Clearance	: 337.15 ha of forest land is involved in the project and diverted for mining purpose with underground rights, vide letter No. F. No. 8-5/1988-FC(pt) dated 04.02.2013 (G.O. Ms. No. 73 Dt. 23.08.2013 (Co-terminus with the period of the Mining Lease) valid up to 21.05.2030. Forest Land of 4.85 ha for surface rights was diverted vide F.No.8-72/93-FC, Dt.23.02.1996 (Co-terminus with the period of the Mining Lease) valid up to 21.05.2030. Total Forest land involved in the project is 342.00 ha.
	E	Mining Lease	: 376.20 ha covered in North Godavari Mining Lease (4494 ha) which was issued by G.O.Ms.No.01, dated 12.01.2015 valid up to 21.05.2030.
	F	Others (Specify)	: --
15	R & R Involved		: Nil.
			



B. COMPLIANCE STATUS OF EC CONDITIONS AS ON 30.09.2023


E. C. Cond. No.	Condition	Status as on 30.09.2023.
2. (A)	SPECIFIC CONDITIONS:	
(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>Forest clearance for the entire forest land of 342.00 ha obtained. Out of 342.00 ha of forest land involved in the project, 337.15 ha of forest land is involved in the project and diverted for mining purpose with underground rights, vide letter No. F. No. 8-5/1988-FC(pt) dated 04.02.2013 (G.O. Ms. No. 73 Dt. 23.08.2013 (Co-terminus with the period of the Mining Lease) valid up to 21.05.2030. Forest Land of 4.85 ha for surface rights was diverted vide F.No.8-72/93-FC, Dt.23.02.1996 (Co-terminus with the period of the Mining Lease) valid up to 21.05.2030.</p> <p>Total Forest land involved in the project is 342.00 ha</p> <p>There is no mining activity is being carried in Forest land which is not diverted.</p>
(ii)	Sufficient coal pillars shall be left un-extracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	Air shaft with a diameter of 5.5 m width and 42 m depth is connected to IV&V seams. To protect the Air shaft about <u>60 meters</u> of solid barrier was left all along the perimeter of the shaft as per the DGMS guide lines.
(iii)	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	A length of around 300m public road is falling over the Panel No. RN 24(A+B) of 2 seam and Panel No. YN 24(A+B) of 2A seam in sector B. And length of around 310m over the Panel No. YN2 and YS 11(A+B) of 2A seam and Panel No. RN 2 and RS 11 (A+B) of 2 seam of sector-A. Sufficient barrier (45 m) is left on either sides of the road to avoid any damage. as per the Regulation No.119 of CMR-2017.
(iv)	Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains.	Depression due to subsidence resulting in water accumulating within low lying areas are being drained out by cutting drains and being ensured that no water is accumulated on the surface of the mine.
(v)	While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.	<p>While extracting the panels in the lower seam, all the water bodies in the subsidence area is being drained.</p> <p>Dewatering of old goaves of the upper seams are being done as long as the lower seam is being worked to prevent the accumulation of large water bodies over working area.</p> <p>Further, all the precautions are being taken as per the provisions of Regulation 149 &150 of CMR 2017</p>


E. C. Cond. No.	Condition	Status as on 30.09.2023.
		There is no water accumulated within 60m of the workings on all sides and no water bodies exist in upper seams / Surface of the depillaring caved panels.
(vi)	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	<p>Subsidence survey is being carried out during extraction of the caving panel once in every month and after completion of the extraction once in 6 months till the movement ceases completely. The system, frequency and recording of observations will be carried out as per the provisions DGMS Technical circular No.4 of 1988. The depressions / Cracks are being plugged, if any.</p> <p>Subsidence management details are furnished in point no. 13 of Part-II.</p>  <p style="text-align: center;"><u>Pillars Subsidence Survey</u></p>
(vii)	Garland/surface drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sufficient number of pumps of adequate capacity shall be deployed to pump out mine water during peak rainfall.	<p>Garland/surface drains of adequate size are made around the Air shaft and entries of the mine so that no water from the surface advertently enter into the mine.</p> <p>The mine openings were designed 5.0 m to 9.71 m above the HFL of the nearby water bodies (HFL: 868.63). HFL of Main Incline Dip is 873.63, Man Way Dip is 874.36 and Air Shaft is 877.50.</p> <p>The sumps are designed keeping the highest seepage calculations and retention time to settle the silt material. Sufficient capacities of pumps were installed keeping in view of the maximum seepage during rainy season.</p>
(viii)	Crusher at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	<p>As, no crusher and CHP is provided on the surface of the mine. The blasted coal in the underground is of good fragmentation which is loaded into tubs by the SDL's and brought to the surface from where some part is transported to consumers by road and some part is transported to nearby SRP CHP for transportation by Rail mode.</p> <p>However, to arrest the fugitive emissions water spraying is being carried out in the</p>


E. C. Cond. No.	Condition	Status as on 30.09.2023.
		<p>underground faces before drilling and after blasting. Water spraying is being carried out at the surface bunkers and on the unpaved roads at surface. All the coal transportation roads and permanent internal roads on the surface of the mine area black topped.</p> <p>Further, in the connected SRP CHP coal is not pulverized in the crushers and is only crushed to (-) 200 mm size. Hence, instead of bag filters, fixed as well as mobile mist spray arrangements have been provided for controlling dust emissions and the air quality parameters monitored at the CHP are well within the stipulated norms. Further a 12 KL capacity water sprinkler is being deployed for dust suppression at CHP and surroundings.</p>
(ix)	Drills should be wet operated	As, this is an underground mine. However, as per the provisions of Regulation No.143 of CMR-2017 water spraying is being done in the underground working face before drilling and after blasting to avoid the dust generation in the working places.
(xi)	A progressive afforestation plan shall be prepared and implanted for the undisturbed area and shall include area brought under green belt development, areas along roads, infra- structure, over surface where mining is being done below, along ML boundary an township outside the lease areas, etc, by planting native species in consultation with the Local DFO/Agriculture Department. The density of the trees should be around 2500 plants per Ha.	<p>A progressive afforestation plan has been prepared as envisaged in the EIA/EMP. Accordingly, 33.99 ha of plantation was carried out in the project area. A plan showing the plantation is enclosed as Flag-1.</p> <p>SCCL has a separate Forestry department to implement afforestation plan into the action. The details of progressive plantation is being furnished in the half yearly monitoring reports submitted to Integrated Regional Office, MoEF&CC and Regional Office, TS Pollution Control Board.</p> <p>Plantation was carried out with the following native species with a density of 2500 plants per hectare.</p> <p><i>Dendrocalamus strictus, Hardwickia binata, Ferronia limonea, Inga dulcii, Holoptelia integrifolia, Azadirachta indica, Acacia nilotica, Acacia planifrons, Acacia ferruginea, Delbergia sisoo, Ficus benghalensis, Emblica officinalis, Aegle marmolose, Peltoforum ferrugenium, Pongamia pinnata, Cassia seamea, Albezia procera, Styloxanthus hamata, Sesbania rostrata, Glyricidia maculate, Leucana leucocephala, Agave, Vettiveria, Saccharum munja..</i></p>


E. C. Cond. No.	Condition	Status as on 30.09.2023.
		 <p data-bbox="815 658 1366 689"><u>Thick Greenery around Mine Premises</u></p>
(xii)	<p>Conservation Plan for endangered species found in and around the project area shall be formulated in consultation with the State Forest and Wildlife Departments.</p>	<p>There are no endangered species found in core and buffer zone of the project area. However, a Wildlife Conservation & Mitigation Plan for Schedule-I species (Indian Monitor, Indian Peafowl & Indian Rock Python) present in the buffer zone of Sri Rampur group of mines was prepared for an amount of Rs.526.367 Lakhs and was approved by the PCCF & CWW vide Ref. No.5694/2021/WL-1 dated: 01.04.2022.</p> <p>SCCL has deposited the amount to forest department towards implementation of conservation plan.</p>
(xiii)	<p>Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.</p>	<p>Monitoring of ground water levels in the surrounding villages is being carried out four times a year by establishing a network of twenty five (25) existing piezometers to assess the long-term effects.</p> <p>Regular monitoring of ground water quality is also being carried out as per statute through MoEF&CC approved third party laboratory M/s Environment Protection Training and Research Institute (EPTRI), Hyderabad. Latest ground water levels and ground water quality are enclosed as Annexure-IV respectively.</p>
(xiv)	<p>The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.</p>	<p>32 nos. of rain water harvesting pits have been constructed at various locations of Srirampur area to recharge ground water. Seven check dams were constructed in the nearby nallah for augmentation of ground water. The list of the locations of the rain water harvesting structures is furnished in Part-2 , point 7 (vii).</p>

E. C. Cond. No.	Condition	Status as on 30.09.2023.
		 <p style="text-align: center;"><u>Rain Water Harvesting Pit</u></p> <p>The excess mine discharge water of 1480 KLD after treated through the slow sand filter beds is being let out into nearby nallah for augmentation of ground water and also for agriculture use by nearby villagers.</p> <p>There are no incidences recorded till now of drying of wells in the surrounding villages of the mine. In case if the village wells go dry, SCCL will supply drinking water to the nearby villages.</p>
(xv)	The Company shall obtain approval of CGWA/CGWB Regional Office for use of groundwater if any, for mining operations.	Ground water clearance was obtained from Ground water Department, vide Lr. No. 149/T/SCCL/2022, dated.20.03.2022. A copy of the obtained GWC is enclosed as Annexure-VIII.
(xvi)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater.	<p>Sewage generated in the existing colony is being treated in STP of 3.0 MLD capacity located in Naspur Colony.</p>  <p style="text-align: center;"><u>Sewage Treatment Plant, Naspur colony</u></p> <p>ETP is provided in the Area Workshop and CHP at Srirampur Area. The effluents from the Area Workshop are treated in the ETP.</p>

E. C. Cond. No.	Condition	Status as on 30.09.2023.
		 <p>Oil & Grease Trap (ETP) at Area Workshop</p> <p>The monitoring of ETP and STP outlet is furnished in Point No. 6 of Part-II.</p>
(xvii)	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its Regional Office at Bangalore.	Digital processing of the entire lease area based on satellite imagery is being done regularly once in 3 years for monitoring land use pattern and post mining land use. Satellite imagery land survey was conducted in year 2022, by Greencindia Consulting Private Ltd, Hyderabad.
(xviii)	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>A final mine closure plan along with details of corpus fund was approved by Ministry of Coal vide Lr.No: TEMCH/APP00206/2022, Dt: 22.03.2022.</p> <p>Amount deposited in ESCROW account up to 31.03.2023 is Rs. 5,94,00,000, balance amount in ESCROW account till now is Rs. 5,54,33,883 and Rs.1,83,14,940 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-IX.</p>
2) B	General Conditions	
(i)	No change in Mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	There is no change in mining technology and the coal is being extracted with Bord and Pillar method of mining with SDLs as envisaged in the EIA/EMP.
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	RK-5 Incline exceeded the EC capacity of 0.50 MTPA for 6 years from 2008-09 (0.514 MTPA), 2009-10 (0.518), 2010-11 (0.524), 2011-12 (0.534), 2012-13 (0.688) to 2013-14 (0.648 MTPA) violating the EC conditions and excess production of 0.427 MT was produced. The year-wise productions details from 2008-09 are







E. C. Cond. No.	Condition	Status as on 30.09.2023.																																																																																								
		<p>furnished below.</p> <table border="1" data-bbox="815 230 1426 1025"> <thead> <tr> <th rowspan="2">SI No</th> <th rowspan="2">Year</th> <th colspan="3">Coal (in MT)</th> </tr> <tr> <th>EC Capacity</th> <th>Actual production</th> <th>Excess</th> </tr> </thead> <tbody> <tr><td>1</td><td>2008-09</td><td>0.5</td><td>0.514</td><td>0.014</td></tr> <tr><td>2</td><td>2009-10</td><td>0.5</td><td>0.518</td><td>0.018</td></tr> <tr><td>3</td><td>2010-11</td><td>0.5</td><td>0.524</td><td>0.024</td></tr> <tr><td>4</td><td>2011-12</td><td>0.5</td><td>0.534</td><td>0.034</td></tr> <tr><td>5</td><td>2012-13</td><td>0.5</td><td>0.688</td><td>0.188</td></tr> <tr><td>6</td><td>2013-14</td><td>0.5</td><td>0.648</td><td>0.148</td></tr> <tr><td>7</td><td>2014-15</td><td>0.5</td><td>0.447</td><td>-</td></tr> <tr><td>8</td><td>2015-16</td><td>0.5</td><td>0.469</td><td>-</td></tr> <tr><td>9</td><td>2016-17</td><td>0.5</td><td>0.445</td><td>-</td></tr> <tr><td>10</td><td>2017-18</td><td>0.5</td><td>0.336</td><td>-</td></tr> <tr><td>11</td><td>2018-19</td><td>0.5</td><td>0.343</td><td>-</td></tr> <tr><td>13</td><td>2020-21</td><td>0.5</td><td>0.198</td><td>-</td></tr> <tr><td>14</td><td>2021-22</td><td>0.5</td><td>0.284</td><td>-</td></tr> <tr><td>15</td><td>2022-23</td><td>0.5</td><td>0.146</td><td>-</td></tr> <tr><td>16</td><td>2023-24 (apr-sep)</td><td>0.5</td><td>0.148</td><td>--</td></tr> <tr><td colspan="2">Total</td><td>7.0</td><td>6.242</td><td>0.427</td></tr> </tbody> </table> <p>As per MoEF&CC, S.O. No.804 (E), dated 14thMarch, 2017 and its subsequent amendments, SCCL applied for ToR/EC under violation category and MoEF&CC granted <u>ToR</u> vide File No. 23-251/2018-IA-III(V), dated 21.10.2019 for a capacity of 0.50 MTPA.</p>	SI No	Year	Coal (in MT)			EC Capacity	Actual production	Excess	1	2008-09	0.5	0.514	0.014	2	2009-10	0.5	0.518	0.018	3	2010-11	0.5	0.524	0.024	4	2011-12	0.5	0.534	0.034	5	2012-13	0.5	0.688	0.188	6	2013-14	0.5	0.648	0.148	7	2014-15	0.5	0.447	-	8	2015-16	0.5	0.469	-	9	2016-17	0.5	0.445	-	10	2017-18	0.5	0.336	-	11	2018-19	0.5	0.343	-	13	2020-21	0.5	0.198	-	14	2021-22	0.5	0.284	-	15	2022-23	0.5	0.146	-	16	2023-24 (apr-sep)	0.5	0.148	--	Total		7.0	6.242	0.427
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Total		7.0	6.242	0.427																																																																																						
(iii)	<p>Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, SO₂, NO_x, Hg and other heavy metals such as Pb, Cr, As, etc. 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>	<p>4 No's Ambient Air Quality monitoring stations comprising of core and buffer zone have been established based on meteorological data, topographical features and environmental sensitive areas, in consultation with Regional Office of Telangana State Pollution Control Board. The results of monitoring of Ambient Air Quality including locations, frequency and parameters are furnished in Point No. 5 of Part-II.</p>  <p>Photograph showing Ambient air quality monitoring station At RK-5 Incline</p>																																																																																								

E. C. Cond. No.	Condition	Status as on 30.09.2023.
(iv)	Fugitive dust emissions (SPM and RSPM, Hg and other heavy metals) 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>As per new ambient air quality guidelines the parameters PM₁₀, PM_{2.5}, SO₂ and NO_x are being monitored once in every fortnight through MoEF&CC approved third party laboratory M/s Environment Protection Training and Research Institute (EPTRI), Hyderabad. Data being recorded properly and being submitted to RO, MoEF&CC and RO, TSPCB along with Half yearly monitoring report.</p> <p>The emissions of PM₁₀, PM_{2.5}, and SO_x, NO_x and other heavy metals are within the limits. The latest air quality data is enclosed in Point No. 5 of Part-II.</p> <p>Effective water spraying arrangements are being provided at coal loading, unloading points and along the coal transport route. Coal is being transported in lorries covering with tarpaulin to arrest fugitive dust emissions.</p>  <p><u>Water spraying arrangement at Transportation Road, RK-5 Incline</u></p>
(v)	Data on ambient air quality (SPM, RSPM, SO ₂ and NO _x , Hg and other heavy metals) shall be regularly submitted to the Ministry including its Regional Office at Bangalore and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) is being submitted regularly to the MoEF&CC and RO, TSPCB on half yearly basis.
(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 operations, operation of HEMM etc shall be provided with ear plugs/muffs.	All the noise control measures such as thick Plantation around the fan house and project area has been carried to dampen the noise, provision of Evasee to main mechanical ventilator to reduce the noise from the main mechanical ventilator and height of fall of coal in the bunkers is reduced to minimize the noise etc.,

E. C. Cond. No.	Condition	Status as on 30.09.2023.
		<p>All the employees engaged on drilling, blasting, operations of machinery and pumps and other noise prone areas in the underground are being provided with earplugs.</p> <p>Noise quality is being monitored once in every fortnight through MoEF&CC approved third party laboratory M/s Environment Protection Training and Research Institute (EPTRI), Hyderabad. Data being recorded properly and being submitted to RO, MoEF&CC and RO, TSPCB along with Half yearly monitoring report.</p> <p>The noise levels are within the limits. The latest noise quality data is enclosed in Point No.8 of Part-II.</p>  <p style="text-align: center;">USAGE OF EAR PLUGS</p>
(vii)	<p>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>	<p>The quality of mine discharge water is being monitored as per MoEF&CC recent guidelines i.e. GSR 742 (E) and GSR801 (E) effluent Standards for Coal Mines.</p> <p>The mine discharge water is being treated through the slow sand filter beds and treated mine discharge water is being partly utilized for the purposes of drinking, dust suppression, plantation etc., and partly sent to the nearby nallah.</p> <p>The mine discharge and colony STP water quality parameters are meeting the stipulated norms and analysis reports are being submitted to the ministry along with half yearly reports.</p>
(viii)	<p>Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and</p>	<p>Vehicles used for transportation of coal are being tuned regularly for control of emissions as per manufacturer schedule. Coal is loaded optimally in the coal transportation trucks which are covered with tarpaulin to reduce</p>

E. C. Cond. No.	Condition	Status as on 30.09.2023.
	optimally loaded.	the dust emission during transportation.
(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>Environmental monitoring is being carried out through M/s EPTRI, Hyderabad, a MoEF&CC, CPCB recognized and NABL accredited laboratory. A Regional Environmental Lab has been established by M/s EPTRI, at Mandamarri Area with adequate number and type of pollution monitoring and analysis equipment's in consultation with the TSPCB.</p> 
(x)	<p>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> <p>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.</p>	<p>All the Persons deployed in dusty atmosphere are being provided with dust masks (310) and adequate training is being provided in the mine vocational training centers on safety and health aspects. Occupational health surveillance is being carried out periodically through Periodical Medical Examinations (PME) once in every 5 years (below 45 Years employees) and 3 years (45 Years and above employees). Every year 1/3rd and 1/5th of the total manpower is being covered under PME respectively. Corrective measures are being taken if any abnormality is found during the PME. About 227 persons have under gone PME during last six months.</p>  <p style="text-align: center;"><u>DUST MASKS USING</u></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>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</p>

E. C. Cond. No.	Condition	Status as on 30.09.2023.																																							
		<p>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="815 577 1401 1115"> <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> <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
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(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 regional Office at Bangalore.</p>	<p>The funds earmarked for environmental protection measures are not being diverted for any other purpose.</p> <p>For implementing EMP and environmental conditions, responsibilities are being assigned to the concerned unit level and area level officers after time-to-time review meetings. Till now about Rs.0.22 Crores was spent as environment capital expenditure and about Rs.12.89 Crores from 2008 to 2023 as environmental revenue expenditure. The environmental revenue expenditure is enclosed as Point No.9 of Part-II.</p> <p>Year wise progress of implementation of environmental protection measures is being reported to the RO, MoEF&CC along with the half yearly monitoring report.</p>																																							
(xiii)	<p>The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The Project authorities shall extend full co-operation to the Office(s) of the Regional Office by furnishing the requisite data /</p>	<p>Noted</p>																																							

E. C. Cond. No.	Condition	Status as on 30.09.2023.		
	information/ monitoring reports.			
(xiv)	A copy of the clearance letter will be marked to concerned Panchayat / local NGO, If any, from whom any suggestion/ representation has been received while processing the proposal.	The copy of the Clearance letter was send to following Panchayats vide Lr.No.SRP/ ENV/ E-417/2008/241, dtd.29.11.2008 i) Naspur Gram panchayat, ii) Theegalpahad Grampanchayat iii) Kankur Grampanchayat Further, a copy of the EC copy displayed on company's website i.e., https://scclmines.com/env/docs/ECS/34002.pdf for public viewing.		
(xv)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days.	A copy of the EC letter was at RO, office of SPCB, District Industry Centre and Collector's Office/ Tahsildar's Office for 30 days and was displayed on the website of the State pollution control board. Further, EC copy is also displayed on company's website i.e., https://scclmines.com/env/docs/ECS/34002.pdf for public viewing.		
(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 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 .	The advertisement was given on 18.11.2008 in Deccan chronicle (English Daily paper) and Vartha (Telugu Daily paper) widely circulated around the project area 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 EC copy is also be seen at the website of the MoEF&CC. <table border="1" data-bbox="815 1211 1414 1536"> <tr> <td data-bbox="815 1211 1110 1536"> <p>Vaaritha (Telugu) daily on 18.11.2008</p>  </td> <td data-bbox="1110 1211 1414 1536"> <p>Deccan Chronicle (English) daily on 18.11.2008.</p>  </td> </tr> </table>	<p>Vaaritha (Telugu) daily on 18.11.2008</p> 	<p>Deccan Chronicle (English) daily on 18.11.2008.</p> 
<p>Vaaritha (Telugu) daily on 18.11.2008</p> 	<p>Deccan Chronicle (English) daily on 18.11.2008.</p> 			
3.	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted.		
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Noted.		
5.	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	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.47/PCB/CFE/RO-		

E. C. Cond. No.	Condition	Status as on 30.09.2023.
	and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	NZB/HO/2009-1073 Dt: 20.07.2009. CFO was obtained vide no. 210522943404 Dt: 15.09.2021 valid up to 30.06.2026. 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.

A periodic progress report regarding environmental protection measures till 30.09.2023 is enclosed as **Part - II**.



AGENT,
RK-5&6 Group of Mines.
Agent
RK-5 & 6 Group of Mines
Srirangapatna.