

**HALF YEARLY ENVIRONMENTAL MONITORING REPORT
OCTOBER-2024 TO MARCH-2025
RAMAKRISHNAPUR OPENCAST COALMINE PROJECT (PHASE-I) (RKP OCP-I)
MANDAMARRI AREA**

Submitted to

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

Submitted by



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



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

Ref: No: MMR/ENV/R/003/2025/132

Date: 17.05.2025

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


Sir,

Sub: Half yearly Environmental Monitoring report in respect of
"Ramakrishnapur Opencast Coalmine Project (Phase-I)
(RKP OCP-I)" for the period October-2024 to March-2025
- Reg.
Ref: MoEF (GoI), New Delhi No, J-11015/219/2008-IA.II (M), 16th
March, 2010.

Reference to the above, the status of implementation of Environmental clearance conditions vis-à-vis Project progress for the period from October-2024 to March-2025 in respect of **"Ramakrishnapur Opencast Coalmine Project (Phase-I) (RKP OCP-I)"** 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.

Encl: Half Yearly compliance report of Ramakrishnapur
Opencast Coalmine Project (Phase-I) (RKP OCP-I)

GENERAL MANAGER,
MANDAMARRI AREA.



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

**HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS
FROM OCTOBER-2024 TO MARCH-2025**

SALIENT FEATURES OF THE PROJECT:

1	Name of the Project:	:	Ramakrishnapur Opencast Coalmine Project (Phase-I) (RKP OCP-I)
	Organization	:	Singareni Collieries Company Limited
	Coalfield	:	Godavari Valley Coal Field
	Type of Mine	:	Open Cast Mine
	Technology	:	Shovel-Dumper combination
2	Environmental Clearance:		
	A. Letter No & date	:	J-11015/219/2008-IA.II(M) GoI, MoEF dated: 16.03.2010
	B. Sanctioned Capacity	:	3.40 MTPA
	C. Mining Lease Area.(total area)	:	637.52 ha
	D. Date of Public Hearing	:	22.10.2009
3	Location of the Project:		
	A. Village	:	Doragari Palli
	B. Tehasil / Mandal	:	Mancherial
	C. District	:	Mancherial
	D. State	:	Telangana State
	E. Latitude	:	North : 18°54'11" to 18°57'37"
	F. Longitude	:	East : 79°27'57" to 79°30'35"
	G. Topo Sheet	:	No:56N/5 & 56N/9
	H. Nearest railway station	:	Ravindra Khani Rly. Station (2.5 Km.)
	I. Nearest Airport	:	Hyderabad Airport (250 Km.)
	J. Nearest town	:	Mancherial (10 Km.)
4	Address for Correspondence:		
	A. Name	:	R VIJAYA PRASAD
	B. Designation	:	Dy. General Manager
	C. Address	:	Ramakrishnapur Open Cast Project Phase-I
	D. PIN Code	:	504301
	E. E-mail ID	:	po_rkpoc@scclmines.com
	F. Telephone No.	:	08736-226005
	G. Fax No.	:	-
5	Life of the Project:		
	A. Date of Opening	:	20.12.2013
	B. Total Life of the project as per EMP	:	10 years
	C. Balance Life	:	0 months (RKP OCP (Phase I) is proposed for expansion by annexing closed RK-3 & closed RK-1A incline UG mines (conversion from UG to OC) and named as RKP OCP (Phase II).
6	Seams:		
	A. No. of Seams Present	:	11 Seams

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	B. Seams being worked	:	All the seams are working. Coal production is commissioned on 14.03.2014.	
7	Depth:			
	A. Minimum Depth	:	30 m	
	B. Maximum Depth	:	180 m	
	C. Present working depth	:	170 m	
8	Reserves:			
	A. Total Geological Reserves	:	30.79 MT	
	B. Total Extractable Reserves	:	23.34 MT	
	C. Reserves already Extracted	:	15.809MT (4.47MT by underground mining+11.339 MT by opencast mining)	
	D. Balance Reserves	:	0.108 MT	
	E. Coal production during last six months	:	0.405 MT	
9	Over Burden:			
	A. Total OB	:	219.24 M m3	
	B. OB extracted since inception	:	202.692 M m3 (including top soil)	
	C. OB removed in last 6 months	:	1.345 M m3 (including top soil)	
	D. Stripping Ratio	:	3.318 (For last six months)	
10	Top Soil:			
	A. Total Topsoil	:	1.571 M m3	
	B. Topsoil extracted since inception	:	1.571 M m3	
	C. Topsoil removed during last six months	:	Nil m3	
11	Land Requirement:			
	A. Total Requirement	:	637.52 Ha.	
	B. Forestland Involved	:	202.50 Ha	
	C. Non-forestland	:	435.02 Ha.	
12	Activity wise Land Requirement:		As per EMP (Ha)	Present status (Ha)
	A. Quarry Area	:	253.42 Ha	253.420
	B. External OB Dumps	:	264.26 Ha	258.114
	C. Infrastructures	:	8.08 Ha	7.760
	D. Others	:	111.76 Ha	111.760
	E. Total	:	637.52 Ha	631.054
13	Statutory Clearances:			
	A. Mining Plan Approval	:	Approved by MoC on 09.03.2010	
	B. Ground Water Clearance	:	Lr.No.157/T/2008, Dated 30-04-2009	
	C. Consent for Establishment	:	60/PCB/CFE/RO-NZB/HO/2010/822, Dated: 12-10-2010	
	D. Consent for Operation	:	CFO has been obtained vide Lr No: Consent order No: 210522811648, Date; 25.02.2021, valid up to 31.12.2025.	
	E. Forest Clearance	:	Forest land diversions for 202.50 Ha has been obtained vide Lr. no: 8-26/2010-FC,Dt:13.07.2011	
	F. Mining Lease	:	The mine falls in the North Godavari Mining Lease (Total lease area-637.52 Ha). Lease renewal is obtained vide MoEF letter No. Gol (MoEF) F.No.8-5/1988-FC (pt), Dated: 04/02/2013.	
14	R & R Involved:	:	No R&R is involved.	

Status of Implementation of MoEF & CC conditions as on 31.03.2025**A) Specific Conditions:**

Sl.No.	Condition	Compliance Status
(i)	No Mining operations shall be undertaken in 202 ha of forestland until prior clearance has been obtained under the provisions of FC Act, 1980.	<p>Complied.</p> <p>Mining operation commenced only after diversion of Forest land. Forest land diversion for 202.50 ha has been obtained, vide Lr. No: 8-26/2010-FC,Dt:13.07.2011.</p> <p>Forest clearance letter as Annexure-I</p>
(ii)	Adequate safety measures shall be implemented for mining in areas where underground mining has been undertaken. Prior permission of the DGMS shall be taken to undertake opencast mining in areas where underground mining has been done.	<p>Being complied.</p> <p>All permissions required under CMR, 2017 have been obtained from DGMS.</p> <p>All safety measures are being implemented as per the provisions of CMR 2017, DGMS circulars issued from time to time and as per the conditions stipulated in mine permission issued by D.G.M.S.</p>
(iii)	Topsoil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used for reclamation and development of green belt.	<p>Being Complied.</p> <p>Top soil is being stacked properly at earmarked site with proper slope. Till now about 1.57 M. Cum of top soil excavated and spread over the external dump and plantation has been taken up.</p>
(iv)	OB shall be stacked at earmarked one external OB dumpsite of 264.26 ha within ML area and shall not exceed a maximum height of 90m consisting of 3 benches of 30m each. Balance OB to be generated over the last 3 years of mine life shall be re-handled and backfilling into the quarry. The ultimate slope of the dump shall not exceed 28°. Slope stability studies shall be carried out and monitoring of the stability of the dumps continuously undertaken and particularly during monsoon and post monsoon seasons to ascertain its stability. Monitoring and management of existing reclaimed dumpsites shall be submitted to the Ministry of Environment & Forests and its regional office located at Chennai on yearly basis.	<p>Being Complied.</p> <p>OB has been stacked at the earmarked external dump in 264.26 ha and about 174.823 M.Cum of OB has been dumped on the external dump with a maximum height of 90 m consisting of 3 benches of 30m each. About 31.345 M.Cum of OB has dumped in the back filled area and is being continued.</p> <p>The ultimate slope of the dump is maintained in such a way that it is not exceeding 28°.</p> <p>Slope stability studies were carried out by NIIT, Surathkal in 2018 and all the recommendations are being implemented for maintaining the stability of the solpes.</p> <p>So far reclamation on the dump has been done in an area of 171.44 ha and information being submitted to Regional Office of MoEF&CC on Half Yearly basis.</p>
(v)	Catch drains and siltation ponds of appropriate size shall	Being Complied.

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Sl.No.	Condition	Compliance Status
	<p>be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads green belt development, etc. The drains shall be regularly desilted and maintained properly.</p> <p>Garland drains of suitable size, gradient and length and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also be provided for adequate retention period to allow proper settling of silt material.</p>	<p>Catch drains and settling ponds of appropriate size are being provided taking into consideration of maximum rainfall. Catch drain (2mx2m) is made for a length of 21.044 km around the dumps.</p> <p>Surface run off during rainy season is being let out in to the nearby tanks for agriculture purpose after proper treatment in settling ponds.</p> <p>Garland drains have been provided for a length of 10.80 km around the dump yards and quarry. About 8 nos. of settling ponds with adequate capacity have been provided and maintained regularly.</p> <p>RKOCOP is a conversion of underground to Opencast project and the developed underground galleries are being utilised as sump to allow proper settling of silt material.</p>
(vi)	<p>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.</p>	<p>Being Complied.</p> <p>Retaining wall at the toe of the dump is provided for a length of 6.4 kms with adequate dimensions</p>
(vii)	<p>Crushers at the proposed CHP shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.</p>	<p>Complied.</p> <p>In line with KK OCP</p>
(viii)	<p>Drills shall be wet operated only.</p>	<p>Complied.</p> <p>Drills are being working with wet operation.</p>
(ix)	<p>Controlled blasting shall be practiced only during day time with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.</p>	<p>Being complied.</p> <p>Blasting is being carried out only in the day time and control blasting techniques with non electrical delay detonators (NONELs) are being adopted to minimize the ground vibrations and to arrest the fly rocks. Rock breaker is provided for breaking of in-situ boulders to avoid secondary blasting.</p> <p>The monitored ground vibrations data was attached for reference.</p>

Sl.No.	Condition	Compliance Status
(x)	Afforestation shall cover a total area of not less than 532.37ha which includes reclaimed external OB dump (264.26 ha), reclaimed topsoil dump, backfilled quarry area (31.46 ha from existing project), backfilled quarry area from Ph-II (235.32 ha) topsoil dump (1.33 ha), along ML boundary, along roads and along service buildings and CHP, within the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	<p>Being complied.</p> <p>Plantation was carried out on OB dumps. Green belt has been developed in 325.94 ha on OB dumps, other areas including avenue plantation with native species, in consultation with the DFO and the density of trees have been maintained about 2500 Plants/ha. The details of plantation are given below.</p> <p>Plantation plan was enclosed as Annexure-II</p>  <p style="text-align: center;">PLANTION AT SAFETY ZONES</p>
(xi)	A progressive Mine Closure plan shall be implemented by reclamation of quarry area of 253.42 ha which shall be backfilled from the 4th year of mining and backfill the void by bringing 205.02 Mm3 of OB from the next phase of the RKP OCP Ph-II project and by re-handling OB generated during the last 3 years of mine life and backfilled into the quarry which would be raised by 10m above ground level the backfilled quarry area shall be afforested by planting native plant species in consultation with the local DFO/ Agriculture Department. The density of the trees shall be around 2500 plants per ha. There shall be no de coaled void left at the end of mine life.	<p>Being complied.</p> <p>Progressive Mine Closure plan is being implemented as per the approved MP& MCP and the EIA/EMP.</p> <p>Plantation is being carried out with native species (Hardwickia binata, Dendrocalamus strictus, Ficus religiosa, Pterocarpus santalinus, Azadirachta indica, Limonia acidissima, Ficus bengalensis, Aegle marmelos, Mitragyna parvifolia, Dalbergia latifolia, Pterocarpus marsupium, Syzygium cumini, Albizzia procera, Terminalia bellarica, Pongamia pinnata, Madhuka indica, Tamarindus indica, Pithecelobium dulce, Sterculia urens, Dalbergia sissoo, Bombax ceiba, Albizzia lebbek) with a density of around 2500 plants per ha.</p> <p>It is proposed for extension of the existing project by conversion of the adjoining closed RK-1A, RK-3 and remaining part of MK-4 & RK-4 Inclines into opencast under the name of Ramakrishnapur Opencast (RKP OC) Project (Phase-II).</p> <p>Accordingly, Mining Plan (including Mine Closure Plan) (2nd Modification) for Ramakrishnapur Opencast (RKP OC) Project (Phase-II) (Project Area –1209.249 Ha; Capacity – 2.50 (peak_3.75) MTPA; Life -18 Years) was prepared and approved by CCO, MoC, GoI vide Application No. Ramakrishnapur Opencast (RKP OC) Project (Phase-II)</p>

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Sl.No.	Condition	Compliance Status
		<p>TEMCH/APP00295/2024, dated: 05.11.2024.</p> <p>Final void will be maintained as per the revised mining Plan after obtaining EC for the proposed expansion.</p>
(xii)	<p>Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new Peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution control Board quarterly within one month of monitoring.</p>	<p>Being complied.</p> <p>Six Nos of Peizometers are established around the quarry area for regular monitoring of ground water levels during 4 seasons in a year and data is being submitted to the Regional office, MoEF&CC and to the Pollution Control Board and Ground water Department Authorities.</p> <p>Groundwater quality is being monitored and the data attached for reference .</p> <p>Ground water quality and Ground water levels were enclosed as Annexure-III & Annexure-IV respectively.</p>
(xiii)	<p>The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of ground water level indicates decline in the water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.</p>	<p>Agreed to comply.</p> <p>About 60 nos. in Mandamarri Area were constructed for augmentation of groundwater resource.</p> <p>Long term monitoring of the ground water levels does not shown any decline of the water table.</p> <p>Further, excess water from the project after treatment is being let out into nearby tanks for agriculture. The nearby Amarawadi tank was de-silted recently for augmentation of ground water. SCCL will continue to de-silt nearby tanks in future as per the requirement.</p> <p>In the event of any adverse impact, SCCL shall take suitable remedial measures</p>
(xiv)	<p>Beside carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.</p>	<p>Complied</p> <p>SCCL is providing free medical treatment to all the workmen and their family members in the 7-area hospital (with a total of 821 beds) and 21 dispensaries established in all the workings areas of the company.</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</p>

Sl.No.	Condition	Compliance Status
		<p>Colony(Godavarikhani), Bellampalli, Ramakrishnapur, Mandamarri, Srirampur, Bhupalpally and Sathupalli for conducting IME/PME of the employees including contract employees.</p> <p>All the PME Centres are equipped with necessary infrastructure for carrying out IME/PME and maintenance of data base.</p> <p>Every PME centre is provided with the facility for chest radiographs as per ILO guidelines with a set of ILO standard chest radiographs on Pneumoconiosis, lung function tests with computerized Spirometres of RMS make, and facilities for Audiometry with pure tone Audiometry equipment.</p> <p>All the Chest radiographs of the Initial and Periodical Medical examinations are being classified for detection, diagnosis and documentation of Pneumoconiosis in accordance with the ILO classification for Pneumoconiosis according to DGMS guidelines.</p> <p>All the PME Doctors employed except gynaecologists, paediatricians, surgeons and ortho surgeons are trained to read PME X Rays in accordance with ILO classification of Pneumoconiosis.</p> <p>(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>PME details</p>




Sl.No.	Condition	Compliance Status
(XV)	ETP shall also be provided for work shop and CHP wastewater. Mine discharge water shall be treated to prescribed standards before discharge into any natural water course.	<p>Complied.</p> <p>An ETP of 60 kld has been constructed and being maintained properly to treat waste water. Mine water is being treated properly to meet the standards before discharging into water bodies.</p> <p>Workshop Effluents quality monitoring data enclosed as Annexure-VIII.</p>  <p style="text-align: center;">ETP AT BASE WORKSHOP</p>
(xvi)	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) on the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series.) and the report submitted to MOEF & CC and its Regional office at Chennai.	<p>Being complied.</p> <p>Satellite data based land use/land cover studies for coal mining projects was carried in the year 2022 and the reports were submitted to the MoEF&CC, Integrated Regional office at Hyderabad with reference letter no: MMR/ENV/G-6/2023/230, Dated: 15.12.2023.</p> <p>The Land use & Land cover study report copy was enclosed as Annexure-V</p>
(xvii)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	<p>Agreed to comply.</p> <p>Mine Closure Plan along with details of corpus fund was approved by MoC, GoI vide Lr. No. 13016/10/2006 - CA-II, dated: 25.11.2014. Amount deposited in ESCROW account No. 40886384579 up to 31.03.2024 is Rs.66.53 Crore,</p> <p>Further, RKP OCP (Phase I) is proposed for expansion by annexing abandoned RK-3 & closed RK-1A Incline UG mines (conversion from Ug to OC) and named as RKP OCP (Phase II).</p> <p>Mining Plan Including Mine Closure Plan RKP OC (Phase II) was prepared and approved by MoC, GoI vide Ramakrishnapur Opencast (RKP OC) Project (Phase II) TEMCH/APP00295/2024 dated 05.11.2024. After obtaining EC for expansion project, Final Mine Closure Plan will be prepared and submitted to MoEF&CC, 5 years in advance of Final Closure of the RKP OCP (Phase II) project.</p>

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Sl.No.	Condition	Compliance Status
(xviii)	An amount not less than a capital expenditure of Rs.160 Lakhs and a revenue expenditure of Rs.297.30 lakhs shall be earmarked and utilized for environmental protection measures, the status of which shall be uploaded regularly on the company website and also furnished as part of the monitoring report.	<p>Being complied.</p> <p>So far, an amount not less than a capital expenditure of Rs.160 Lakhs and Rs. 8,136 Lakhs towards revenue expenditure spent for environmental protection measures. The details of the expenditure is being regularly furnished and uploaded in the company website once in every six months.</p>
(xix)	The project authorities shall carry out a pre-mining socio-economic survey based on the UNDP Human Development Report and monitor the socio-economic status of the adjoining villages once every three years and maintain records thereof and report in their Annual Report, the socio-economic impact of CSR activities. The yearly activities undertaken and progress made on CSR shall be uploaded on the company's website and updated at least once in six months.	<p>Being complied.</p> <p>A socio-economic survey was carried out during 2023-24 through Centre for good governance, Hyderabad on the impacts of CSR activities.</p> <p>Report</p>

B. GENERAL CONDITIONS:

S.No	Condition	Compliance Status
(i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	<p>Being complied.</p> <p>There is no change in mining technology and scope of work as envisaged in approved Mining Plan and EMP. Prior approvals will be obtained from MoEF&CC in case of any change in technology and scope of work.</p>
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	<p>Being complied.</p> <p>There is no change in calendar plan including excavation quantum of mineral coal and waste.</p>
(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x , monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and	<p>Being complied.</p> <p>Four ambient air quality monitoring stations are established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x, monitoring. Location of the stations are decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control</p>

S.No	Condition	Compliance Status
	environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	<p>Ambient air quality monitoring data enclosed as Annexure-VI.</p>  <p>Ambient Air Quality Monitoring station</p>
(iv)	Fugitive dust emissions (PM ₁₀ and PM _{2.5}) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading and dump trucks (loading and unloading) points shall be provided and properly maintained.	<p>Being complied.</p> <p>For controlling Fugitive dust emissions (PM₁₀ and PM_{2.5}) from all the sources one 28KL and 4 nos. of 20KL water sprinklers are being regularly deployed in all three shifts. The ambient air quality is regularly monitored and data recorded properly. Water spraying arrangement and Mist water spraying arrangements have been made at crusher and discharge points at CHP for suppression of dust from crushing operations are provided and properly maintained.</p>  
(v)	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) shall be regularly submitted to the Ministry including its Regional Office at Chennai and	<p>Being complied.</p> <p>The ambient air quality data on PM₁₀, PM_{2.5}, SO₂ and NO_x is being submitted to MoEF & CC, and State Pollution Control board, Hyderabad once in every 6</p>

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S.No	Condition	Compliance Status
	to the State Pollution Control Board and the Central Pollution Control Board once in six months.	months. Data
(vi)	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operation, operation of HEMM, etc shall be provided with ear plugs/muffs.	Being complied. To control noise levels in the work environment all the HEMM are being tuned regularly and 70 no's ear plugs were provided for persons who are engaged in blasting, drilling operations. The Noise levels of core & buffer zone of the project were enclosed as Annexure-IX.
(vii)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December, 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Being complied. ETP has been constructed and maintained for collection and treatment of industrial waste water, Oil and Grease trap are installed before discharge of workshop effluents. Water from the mine effluents quality were enclosed as Annexure –VII. Main workshop effluent quality report enclosed as Annexure-VIII.
(viii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Being complied. To control the vehicular emission all HEMMs are being maintained as per manufacturer schedule. Vehicular emission are being monitored regularly and kept under control. Vehicles used for transporting the mineral are covered with tarpaulins and optimally loaded Vehicular emission results were furnished as Annexure-X.
(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.	Complied. Environmental parameters monitoring is being carried out through EPTRI, Hyderabad, a CPCB recognized and NABL accredited laboratory. Also, a Regional Environmental Lab has been established by M/s EPTRI at Mandamarri Area for analysis of critical parameters in the field.
(x)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programmed of the workers shall be undertaken periodically to observe any	Being complied. Personnel working in dusty areas are provided with protective respiratory devices and ensuring wearing by them. 120 Nos of dust mask are issued and also be provided with adequate training and information on safety and health aspects all the employees. Occupational health surveillance programme of the workers is conducted periodically to observe any contractions due to exposure to dust and corrective

S.No	Condition	Compliance Status																																							
	contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof.	measures are taken, and records maintained																																							
(xi)	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the Company.	<p>Complied.</p> <p>A company level environment cell with qualified personnel headed by General Manager (Environment) who is reportable to the Director of the Company is established to monitor and guide in implementation of the environmental safeguards.</p> <p>An area level environmental cell headed by qualified environmental officer is established and functioning under the control of area General Manager to monitor and guide in implementation of the environmental safeguards.</p> <p>Apart from this, a unit level Environmental Management Committee with multidisciplinary team has been constituted under the chairmanship of SO to GM. The committee has been constituted with following members.</p> <table border="1"> <tr> <td>1.</td><td>SO to General Manager</td><td>Chairman</td></tr> <tr> <td>2.</td><td>Project Officer</td><td>Member</td></tr> <tr> <td>3.</td><td>Area Engineer (E&M)</td><td>Member</td></tr> <tr> <td>4.</td><td>Area Civil Engineer</td><td>Member</td></tr> <tr> <td>5.</td><td>Area Forest Officer</td><td>Member</td></tr> <tr> <td>6.</td><td>Area Estates Officer</td><td>Member</td></tr> <tr> <td>7.</td><td>Project Manager</td><td>Member</td></tr> <tr> <td>8.</td><td>Project Engineer</td><td>Member</td></tr> <tr> <td>9.</td><td>Project Surveyor</td><td>Member</td></tr> <tr> <td>10.</td><td>Project Env. Officer</td><td>Member</td></tr> <tr> <td>11.</td><td>Area Env. Officer</td><td>Conveyor</td></tr> <tr> <td>12.</td><td>Sr. Hydro Geologist</td><td>Member</td></tr> <tr> <td>13.</td><td>Area Survey Officer</td><td>Member</td></tr> </table> <p>Environment Management Committee (EMC) meeting was conducted on 13.03.2025 to review all EMP works.</p>	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	Conveyor	12.	Sr. Hydro Geologist	Member	13.	Area Survey Officer	Member
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9.	Project Surveyor	Member																																							
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11.	Area Env. Officer	Conveyor																																							
12.	Sr. Hydro Geologist	Member																																							
13.	Area Survey Officer	Member																																							
(xii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Chennai.	<p>Being complied.</p> <p>Expenditure incurred on environmental related works is being maintained in separate account and head wise details is being informed regularly to the departments concerned in Half Yearly as well as annual Revenue Expenditure reports.</p> <p>The fund provision for Environmental protection and Management:</p> <p>In order to implement the environmental protection measures, an amount of Rs.160.00 lakhs is proved in capital cost.</p>																																							

HYMR Report of RKPOCP for the period from October-2024 to March-2025

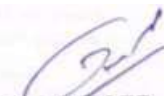
S.No	Condition	Compliance Status
(xiii)	The Regional Office of this Ministry located at Chennai shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	Being complied. Area as well as Corporate Authorities of the company will extend full co-operation whenever authorities seek any information about the project.
(xiv)	A copy of the letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied. 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)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tahsildar's Office for 30 days.	Complied. A copy of the EC letter was provided to TGPCB for displaying the same at their Regional Office, Collector's office / Tahsildars office for 30 days. Letter
(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 .	Complied. The project was granted EC was advertised in Eenadu Telugu local language daily paper and Deccan Chronicle in English language. A copy of Environment clearance letter was marked to the Member Secretary, TSPCB, Hyderabad. Advertisement
3)	The ministry or any other competent authority may stipulate any further condition for environmental protections	Agreed. Any further condition stipulated by the ministry or any other competent authority for environmental protections will be complied.
4)	Failure to comply with any of the condition mentioned above may result in withdrawal of this clearance.	Agreed.
5)	The above conditions will be enforced, inter -alia under the provisions of the Water (Prevention & Control Of	Complied. The above conditions are being complied as per Water (Prevention & Control of Pollution) Act 1974, The Air

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S.No	Condition	Compliance Status
	Pollution) Act – 1974, Air (Prevention & Control Of Pollution) Act – 1981, The Environment (Protection) Act 1986 and the Public Liability Insurance Act 1991 along their amendments and rules.	<p>(Prevention & Control of Pollution) Act, 1981 The Environment (Protection) Act, 1986.</p> <p>CFE was obtained vide no.60/PCB/CFE/RO-NZB/HO/2010/822, Dt:12.10.2010.</p> <p>CFE Order copy was enclosed as Annexure-XI</p> <p>CFO was obtained vide no. 210522811648, Date: 25.02.2021.</p> <p>CFO Order copy was enclosed as Annexure-XII</p> <p>Public Liability Insurance Policy is taken from the New India Assurance Company Ltd under Public Liability Insurance Act, 1991 vide policy No. 550200492510000035, valid from 30.04.2025 to 29.04.2026, which will be renewed periodically.</p> <p>Public Liability Insurance Policy copy was enclosed as Annexure-XIII</p>

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

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


PROJECT OFFICER
RKOC
Project Officer,
RKPOC. MM.

PART – II**A periodic progress report regarding Environmental protection measures till 31.03.2025****1. Production Details:**

Sl. No	Year	Coal (in MT)		OB (M.Cu.m)	
		As per EC	Actual	As per EC	Actual
1	2020-21	3.40	0.600	26.00	8.220
2	2021-22	3.40	2.200	26.00	20.554
3	2022-23	3.40	1.881	26.00	18.679
4	2023-24	3.40	1.872	26.00	18.723
5	2024-25	3.40	0.919	26.00	6.935

2. Topsoil Management (in L. Cu.m)

1	Total Topsoil	:	1.571 M. m ³
2	Topsoil removed so far	:	1.571 M m ³
3	Topsoil stored in temporary stockyard	:	0.300 M. m ³
4	Topsoil spread on Dumps	:	1.271M. m ³
5	Topsoil removed in last six months	:	0.051 M m ³

3. Overburden Management (in M.Cu.m)

1	Total Overburden	:	219.24 M m ³			
2	Total OB removed since inception	:	202.692 M m3			
3	Total OB removed during last six months	:	0.405 M m ³			
4	Details of External OB dump	:	Area (in Ha)	Details of External OB dump	:	Area (in Ha)
			258.652 Ha	174.823		258.652 Ha
5	Details of Internal dump (Backfilling)	:	Area (in Ha) (w.r.t. Ground level)	Details of Internal dump (Backfilling)		Area (in Ha) (w.r.t. Ground level)
			124.51 Ha	27.869 M m3		124.51 Ha

4. Plantation:

1	No of plants planted during last six months.	76150
2	Area covered in Ha	28
3	Expenditure incurred in Rs. Lakhs	1.64
4	Total area brought under plantation so far (including beyond mandate plantation) in Ha	355.34
5	Total no of plants planted so far since inception	700370
6	Species of plants planted	Native mixed forest species
7	Seeds sown so far	1240 kgs.
8	Small plants planted so far	18000
9	Total expenditure in Rs. lakhs	2845.57

5. Water Balance Sheet:

Sl. No	Purpose	Quantity
1.	Average quantity of water pumped out of the mine	3120 KLD
2.	Dust suppression	702 KLD
3.	HEMM washings	50KLD
4.	Domestic	-
5.	Plantation	60 KLD
6.	Excess mine water	2308 KLD
	Total	3120

6. Revenue Expenditure incurred on Environment Management and Pollution Control Measures:

The Expenditure incurred from October-2024 to March-2025 as follows:

Sl. No	Description	Expenditure (in Rs:)
1	Air Pollution Prevention & Control measures (Free Gas supply of workers)	3,277,141
2	Water Pollution Prevention & Control measures	4,267,026
3	Plantation (Block & Avenue)	1,807,147
4	Water spraying arrangements	597,362
5	Water cess	-
6	CFO fee	-
	Total:	9,948,677

7. Soil Erosion control measures:

1	Toe wall	6.40 km length is completed and remaining work is under progress
2	Garland drains & deck drain on OB benches	21.04 km garland drain & 4.20 km deck drain
3	Settling ponds	Eight ponds with capacity 4500 to 15000 cu.m each

8. Micro-meteorological Monitoring:

Micro-meteorological station was installed on the top of GM's office, Mandamarri. The summary of the monitoring from 01.10.2024 to 31.03.2025 as follows:

S.No	Parameter (s)	Min	Max	Mean
1.	Temperature (°C)	13.3	43.6	25.7
2.	Wind Speed (m/s)	Calm 18.48%	9.0	1.5
3.	Relative Humidity (%)	8.0	99.9	38.6
4.	Predominant Wind direction for the study period	North North West (NNW) direction		
5.	Total Rainfall (mm)	41.0 mm		

9. Air Pollution Control Measures:

- To avoid the dust generation from the drilling operations, wet-drilling and also dust extraction system is provided and maintained.
- Use of appropriate explosives and adopting controlled blasting technique with shock tube, delay action non electrical detonators (NONELs) and also muffling the holes wherever required to control ground vibrations, noise and dust pollution.
- The volume of dust rising from dumps by the action of wind is controlled significantly by planting grasses on slopes and native plants on dumps soon after their formation.
- Black topping of permanent approach roads to coal handling plant, permanent internal roads etc.,
- Water spraying on haul roads and permanent transport routes at required frequencies. one 28 KL and four 20KL capacity tankers are provided for water spraying along the haul roads regularly in 3 shifts.
- Development of thick green belt along mine boundary, garland drains and also surrounding CHP which serve as a barrier to prevent the dispersion of dust.
- Mist water spraying is arranged at pit head coal handling plant (CHP).
- The exhaust emissions from HEMM containing CO, SO₂ & NO_x are being controlled by strictly adhering to the scheduled maintenance that includes periodical tuning of engines.

10. Water Pollution Control Measures:

Garland drains and deck drains for a length of 19.05 km and 4.20 km respectively are being made and maintained along the Quarry and external dump for which 0.9 Cu.m diesel hydraulic backhoe shovel is provided. (Dimensions of drain: Top width – 5m to 14m, Bottom width - 1.5m to 8m, Depth – 2.0m to 11m).

- Eight settling ponds have been constructed with capacity of 4500 to 15000 Cu.m each to treat the OB runoff. Three Check dams and toe wall for a length of 6.20 km is being constructed and balance will be completed during dry spell of 2018 to reduce silt and suspended solids.
- The mine water is being utilized for dust suppression and plantation etc.
- The excess mine discharge is being treated in settling tanks before discharge in to natural drains.
- Workshop effluents are being treated properly at ETP.

The summary of Surface water quality monitoring data for the period, 01.10.2023 to 31.04.2024 is enclosed as **Annexure-XIV**.

11. Water Conservation Measures

- Measures are being taken for optimum utilization of mine discharge water for the requirements like dust suppression, washing of HEMM and plantation.
- Phreatic surface levels are being monitored throughout the life of the project and if there is any impact on ground water table then measures will be taken for ground water recharge by construction of rain water harvesting pits or other recharge options.

12. Noise Pollution Control Measures:

- Creation of green belts of dense foliage in three rows between mine areas and residential colonies which is acting as noise attenuator.
- Proper maintenance of machinery (including transport vehicles) including fine tuning of engines to reduce noise.
- Protective devices like acoustic wool, earplugs and earmuffs are being provided to the workers working in HEMM where noise levels are above 90 dB(A).
- Controlled blasting techniques using milli-second delay action NONEL detonators is being adopted in this project for minimizing noise and blast vibrations and also muffling the blast holes where ever necessary to control ground vibrations and noise.
- Sound and dust proof AC cabins are being provided in the machines shovels, dumpers, graders and feeder breakers at CHP etc.

13. Socio-economic Measures:

- i. A common central township is provided on a non coal bearing area and it is maintained with such facilities like dispensary, schools, drinking water supply, market place, recreation clubs, Parks, well lighted approach roads and play ground, dust bins etc., at various places in the colony and it is away from mining activity. Sulabh Complexes are constructed in and around mining colonies in addition to individual toilets provided in quarters.
- ii. Existing no of quarters in Mandamarri area : 8098
- iii. Workers are being educated about the importance of family planning and an incentive of Rupees 220.00 for ladies & Rs: 150.00 for gents along with 6 days leave is being given as encouragement.
- iv. Arrangements are being made for giving vaccination to children and adults to protect from diseases and steps are taken to eliminate / control Malaria under effective supervision of Health Officer.
- v. All necessary steps are being taken for improving general sanitation of Township/Colony under effective supervision of Health Officer.
- vi. Sports and games are being conducted for workmen and also in the surrounding villages regularly.

- vii. Greenery is being developed in the existing colonies and also avenue plantation along the roads of surrounding villages.
- viii. a) Planting has been done in 70.00 ha with 165700 numbers of seedlings.
b) 84500 fruit bearing plants were disturbed to surrounding villages and to other departments during 2021 monsoon season.

ix. Similarly as part of Haritha haram:

- 500 nos saplings are planted at Muthyampalli village, Kasipet Mandal.
- 201463 nos of fruit bearing saplings are planted on 26.09.2020 and 17.02.2021 at monkeys food court at KK-5 mine premises.
- 2 nos solar power plants has been installed at Mandamarri area. 1 no 15MW capacity solar power plant (MMR-II) synchronized with TS Transco at Muthyampalli village, Kasipet Mandal, Mancherial district near Kasipet mine on 08.04.2021.
 - 1 no 28 MW capacity solar power plant (MMR-I) synchronized with TS Transco at Mandamarri town, Mancherial district near Kalyan khani no.5 incline on 17.04.2021. **Welfare measures:** New canteens constructed and inaugurated during the year at Shantikhani Longwall project and Kasipeta-2 Underground Mine Project.
 - Installed RO plants at all the mines and departments for supply of purified and hygienic mineral water to all employees.
 - Ayurvedic medical camps conducted for benefit of the employees and their family members.
 - CPRMS-NE: Health cards issued to Ex Employees -3901.
 - HBLIRS availed by 461 employees.
 - Swachta Maha & Swachta hi seva 2021, “Swatchatah Pakhwada,” “Swachta hi seva” “Haritha Haram” programmes conducted.
 - 2100 persons were donated BLOOD at MVTC, Mandamarri area since 2019.
 - Conducted World Yoga Day programme at SCH grounds and other schools of Mandamarri on 21.06.2019 with involvement of 12,141 persons.
 - Conducted CIL Athletic meet wherein 10 companies participated in the event.
 - SEVA ACTIVITIES; Training given to 9000 persons in various works like Tailoring, Beautician, Maggam works, DCA course, motor driving, Security guard training, Army Training, Volvo driving training etc since starting of seva activities in the company .
- As in the part of welfare measures – civil repairs are being taken up regularly for the benefit of employees, as well to the common public.
- Avenue plantation done in KKOC mine premises (2.5 km) -1000 nos and Kasipet-2 approach road (2.5km) -1733 nos.

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- As per Govt of India, circular **Bharath Ka Amruth Mahotsav** programmes were conducted on the following topics.
- Fruit bearing plants were distributed to the neighbouring villages Yerraguntapalli and Mamidigudem on 20.10.2021.
 - 500 nos Jute bags were distributed to the employees on 20.01.2022.
- a) General awareness programme was conducted on “**Plastic waste Management**” on 10.02.2022.

14 (a) Various training programmes have conducted for unemployed surrounding village people and the details as follow in the year 2018-19:

Sl. No.	Course	Location	Centre	No of persons
1	Computer DCA course	Mandamarri	Maya computer centre	20
2	Motor Driving (LMV)	SRR Motors, Mandamarri	Jendavenkatapur	40
		Dubbagudem	Dubbagudem	
		Mamidigattu	Mamidigattu	
		Sravanpalli	Sravanpalli	
		Adilpet, Sarangapalli	Adilpet, Sarangapalli	
		Erraguntapalli	Erraguntapalli	
		Dubbagudem	Dubbagudem	
3	Tailoring	Ramakrishnapur	Ramakrishnapur	25
		Mandamarri	Mandamarri	28
		Yapal	Yapal	34
		Kasipet & Somagudem	Kasipet & Somagudem	25
4	Beautician	Ramakrishnapur	Ramakrishnapur	25
		Mandamarri	Mandamarri	25
		Yapal	Yapal	25
		Bellampalli	Bellampalli	20
5	Fashion designing course	Ramakrishnapur	Ramakrishnapur	20
		Mandamarri	Mandamarri	25
		Yapal	Yapal	25
		Bellampalli	Bellampalli	25
6	Meggam work course	Ramakrishnapur	Ramakrishnapur	28
		Mandamarri	Mandamarri	28
		Yapal	Yapal	40
		Bellampalli	Bellampalli	25
Total:				473

b) Training given to project affected people in the year 2018-19.

Sl. No	Project affected peoples	Vocational course	No of students
1	Adilpet village (Sravanpalli OCP)	Tailoring course	22
2	Amarawadi, Sheshapelli, Doragaripalli & Kyatanpalli (RKPOCP)	Tailoring course	60
3	Lambadi thanda, Dubbagudem	Tailoring course	25
4	Akenapalli (KKOCP)	Tailoring course	25
5	Mamidigattu (Sravanpalli OCP)	Fashion designing	30
6	Mamidigattu, Kasipet & Muthyampalli (KKOCP)	Beautician	60
7	Mamidigattu, Dubbagudem, Amaravadi & RK-4 gadda (KKOCP, RKOCP & Sravanpalli OCP)	Computer DCA	40
8	Jendavenkatapur, Dubbagudem, Mamidigattu, Sravanpalli, Adilpet, Sarangapalli & Erraguntapalli.	LMV (Driving)	60
Total:			322

c) To encourage unemployed youth on Entrepreneurs Development Programme for establishment of Ancillary units and from which the products are being utilized in mines and departments and the details are as follows:

Presently, 13 new entrepreneurs were selected for establish new ancillary units i.e. BPA-3, MM-5 and SRP- 05

Entrepreneur Development Programme was conducted to these 14 candidates from 4th June to 14th June 2012 at Yellandu Club, Mandamarri jointly by the Centurion University, Khadi Gramodyog Vidyalay and Officials from Singareni collieries Co Ltd.,

The units proposed are: Roof bolts – 4 persons, motor winding works – 1, House wiring – 3, GI Canisters 1, Dog nails, bolts & nuts – 1, Fish plates – 1, Fabrication – 2, GI Wire items – 1

Out of these 14 persons, 13 have applied for loan through Prime Minister's Employment Generation Programme as detailed Below:

For Rs 25 lakh: 4 persons
 For Rs 20 lakh: 1 person
 For Rs 10 lakh: 2 persons
 For Rs 7 lakh :1 person
 For Rs 1 lakh :5 person

All the above 13 candidates obtained Vendor codes from SCCo Ltd. and got their proposed firms registration. SCCL had given tenders of order value of Rs:13.43 crores to the Ancillary units during 2017-18.

Singareni Sewa Samithi Course List 2022-23

Sl. No	Name of course	Location	Strength
TAILORING			
01		PH colony	25
02		RKP	25
03		Yapal	25
04		Somagudem	25
BEAUTICIAN			
01		RKP	25
02		MM (Yoga hall)	25
FASHION DESIGNING			
01		RKP	25
02		Yapal	25
03		SCHS ground,MM	25
MAGGAM WORK			
01		RKP	20
02		Adilpet	26
03		Yapal	25
04		Peddana palli	25
Total:			321

Singareni Sewa Samithi training particulars for the year 2023-24

Sl.No	Name of Course	Location of Centre	No of persons
TAILORING			
01		PH colony	49
02		RKP	41
03		Yapal, MM	26
04		Somagudem	24
05		SCHS ground MM	26
BEAUTICIAN			
01		RKP	49
02		SCHS MM (Yoga hall)	40
FASHION DESIGNING			
01		RKP	20
02		Yapal, MM	40
03		SCHS ground, MM	20
04		Sarangapalli village	27
MAGGAM WORK			
01		RKP	20
02		Adilpet	24
03		Yapal, MM	17
04		Peddnapelli	25
05		SCHS ground, MM	19
06		Somagudem	21
COMPUTER COURSE			
01		Maya computer center, Mandamarri Market	20
Total:			508

Singareni Sewa Samithi training particulars for the year 2024-25

Sl. No	Name of Course	Location of Centre	No of persons
TAILORING COURSE			
01	Tailoring	RKP (Sewa room)	50
		Adilpet (village)	24
02	Tailoring	SCHS ground MM, (Sewa room)	46
03	Tailoring	Turuka palli ,Village (Sewa room)	25
			145
BEAUTICIAN COURSE			
01	Beautician course	RKP (Sewa room)	27
02	Beautician course	SCHS ground MM. (Sewa room)	55
			82
FASHION DESIGNING COURSE			
01	Fashion designing	Ph colony ,MM	17
02	Fashion designing	SCHS ground MM. (Sewa room)	47
			64
MAGGAM WORK COURSE			
01	Maggam work	RKP (Sewa room)	19
02	Maggam work	SCHS ground (Sewa room), MM	18
03	Maggam work	SCHS ground MM. (Sewa room)	19
			56
COMPUTER CLASSES			
01	COMPUTER	MAYA COMPUTER CENTER, MM	20
			20
		TOTAL	367

15) Development activities (CSR) under SHAPE Programme in the surrounding villages from 2003-04 to 2008-09:

a).Towards school building and compound : 21.80 lakhs

b).Towards drinking water in the surrounding villages
(namely Mandamarri, Amaravadi, Kurmapalli, Kasipet
and Muthyampalli etc) for bore holes, overhead tanks
and pipe lines : 24.50 Lakhs

c).Towards BT, CC roads, drainages, bridges & street lighting : 498.25 Lakhs

Total : 544.55 Lakhs

CSR works for the year 2014-15

Sl. No.	Description of the work	Amount in Lakhs
1	Miscellaneous civil works to police station building to accommodate CI office room	2.90
2	Drilling of bore holes including fixing of hand pumps under CSR at MM area	2.77
3	White washing and coloring works to police station building at MM area	1.60
4	M&R works to police station building at RKP	1.10
5	Providing dust bins and iron gates to project affected villages of KKOC and sravanapalli OC at Mandamarri area	2.86
6	Providing pipe culvert at Mamidigattu, Mandamarri area	2.94
	Total Amount:	14.17

CSR works for the year 2015-16 to 16-17

Sl. No	Description of the work	Amount in Lakhs
1	Towards CC road and metal road	111.30
2	Towards CC drains	41.00
3	Drilling of bore holes	45.74
4	Construction of overhead tank	30.00
	Total:	228.04

CSR activities during 2017-18:

- 1) Similarly, during the year 2017-18 the following works are being taken up:
 - An amount of Rs.189.64 lakhs for CC Drains & development of roads
 - An amount of Rs.60 Lakhs allotted for widening of roads & Central lighting system.
 - Hand Pumps worth Rs.17 Lakhs
 - Construction of Public Toilets worth Rs.19.37 Lakh and in Bellampalli Town
 - An amount of Rs.162.90 lakhs for CC Drains & Roads
 - An amount of Rs.100.00 Lakhs for construction of Ambedkar Building
- 2) On 04.02.2018, a mega medical camp was organized at Sarangapalli Village with medical specialists and medical tests were conducted for nearly 1200 persons and necessary treatment was extended for identified persons. In the coming days also, medical camps will be organized in the project affected villages. 81 persons were identified for cataract surgery which will be done at free of cost.
- 3) Company has supplied 55 nos. benches to the schools of nearby villages.
- 4) 14 Unemployed youth were given training in Volvo Truck driving at Bengaluru.
- 5) 87 persons were given training for Army Recruitment.

HYMR Report of RKPOCP for the period from October-2024 to March-2025

- 6) Specialized training session has been given to 25 Female & 30 Male unemployed youth so far for police recruitment.
- 7) SCCL authorities have already deposited with District Collector, Mancherla around Rs.215 Crores (from January, 2016 to March, 2018 under D.M.F (District Mineral Foundation) Trust, which will be spent for developments and upliftment of surrounding villages.

CSR works for the year 2018-19

(Rs in Lakhs)

- 1) Providing second toilet complex at Shanthinagar colony, RK-4 -gadda RKP, MM area : 9.31
- 2) Drilling of 8 nos bore wells with hand pumps to surrounding villages of proposed Kalyanikhan -6 inc project , MM area. : 2.79
- 3) Development works in surrounding habitations of SCCL areas of Bellampalli and MM area under SHAPE-11-12 programme : 6.71
- 4) Providing development works at Mandamarri and its surrounding villages under CSR programme : 13.827
- 5) Infrastructure development works (laying of Roads and construction of Drains etc.) in the surrounding areas of Mandamarri area, Mancherla District : 50.876
- 6) Laying of CC roads and Drains at Kasipet GP in Mancherla District Works sanctioned under CSR.- **Under Corporate Social Responsibility activities (CSR)** : 56.39

CSR works for the year 2019-20:

1. Development works such as laying CC/BT roads construction of open GYM, providing Hy-mast solar light planting trees Bellampalli Assembly constituency. : 200.00
2. Construction of integrated market at Chennur Municipality of Chennur Assembly constituency. : 150.00

CSR works for the year 2021-22:

1. Construction of class rooms and toilet blocks at ZPS School at Orregadda, Mandamarri of Chennur constituency, certain balance works to park at Bellampalli Municipal limits. : 100.00

CSR works for the year 2022-23:

- Install CCTV cameras in Mandamarri Area for the safety and Security of women/public in Mancherla-Dist. : 10.00
- Note no MMR/GMO/G/006/2022/983/5 dt 21.11.2022

CSR works for the year 2023-24:

- 1) Financial support for poor ST students towards School fee and tutor Fees-
Ramji gond student home (ST Home) at Bellampalli : 3.00
- 2) Providing Rural development works in the Chennur (SC) constituency : 200.00
- 3) Providing Rural development works in the Bellampalli (SC) constituency : 200.00

CSR works for the year 2024-25:

- 1) Providing Rural development works in the Chennur (SC) constituency : 200.00
- 2) Providing Rural development works in the Bellampalli (SC) constituency : 200.00

16) Medical camps conducted in nearby villages and the details are as below:

Medical camps/programmes	No of Programmes	No of Beneficiaries
Medical Camps	2	1300
Mobile Medical Services	2	246
School Health Programmes	7	750
Health Awareness Programmes	16	1746

17) MINUTES OF THE ENVIRONMENTAL COMMITTEE MEETING:

Environmental committee meeting of RKPOCP held on 13.03.2025 under the Chairmanship of Shri A.Rajeswar Reddy, SO to GM, Mandamarri and the following executives were attended.

Sl. No.	Name S/Sri	Designation	Administrative set up
1	R.Vijaya Prasad	SO To GM	Chairman
2	R.Vijaya Prasad	Project officer	Member
3	Sudhir Jayavantrao Jakkulwar	Project Manager	Member
4	Y.Venkataramana	Area Engineer(E&M)	Member
5	B.Ramu	Area Engineer(Civil)	Member
6	Ujjwal Bandopadyaya	Area survey officer	Member
7	K.Venkata Reddy	Area Environmental officer	Convener
8	R.V.Ramana Reddy	Area Forest officer	Member
9	K.Swapna	Area Estate Officer	Member

At outset, the Area Environmental Officer briefed about each condition imposed in Environmental Clearance and for every condition present status reviewed and the ATR vs responsibility of the executive is being furnished as under.

Minutes of the Meeting**Specific conditions:**

S. No	EC condition	Action to be taken	Responsibility
1	(i) No Mining operations shall be undertaken in 202 ha of forestland until prior clearance has been obtained under the provisions of FC Act, 1980.	No work should be carried in the forestland, for which forest clearance has not been obtained.	Sri. Sudhir Jayavantrao Jakkulwar Project Manager
2	(vii) Crushers at the proposed CHP shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, and transfer points.	Dust suppression arrangements such as water spraying at the crusher, Fog canons along the Pit Head CHP and the mobile water sprinklers and fixed water guns to be kept effectively working and properly maintained.	Sri. Balaji Bhaqwathi Jha Project Engineer
3	(x) Afforestation shall cover a total area of not less than 532.37ha which includes reclaimed external OB dump (264.26 ha), reclaimed topsoil dump, backfilled quarry area (31.46 ha from existing project), backfilled quarry area from Ph-II (235.32 ha) topsoil dump (1.33 ha), along ML boundary, along roads and along service buildings and CHP, within the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	Afforestation should be carried and ensured as per Environment Management Plan.	Sri. Sudhir Jayavantrao Jakkulwar Project Manager Sri R.Venkata Ramana Reddy Area Forest Officer
4	(xii) Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new Piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution control Board quarterly within one month of monitoring.	Regular monitoring of groundwater levels and quality should be checked at regular intervals.	Sri K.Venkata Reddy Area Environmental Officer

General Conditions:

S. No	EC condition	Action to be taken	Responsibility
5	(i) No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	The mining technology and scope of working should not be changed without prior approval of the Ministry of Environment and Forests.	Sri. Sudhir Jayavantrao Jakkulwar Project Manager
6	(v) Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) shall be regularly submitted to the Ministry including its Regional Office at Chennai and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	The data on ambient air quality should be regularly submitted to the Ministry TSPCB and CPCB.	Sri K.Venkata Reddy Area Environmental Officer

The above meeting was concluded by expressing thanks to the participants.

18) Issues raised during the public hearing and clarification given by the proponent:

Issue raised by the Public	Clarification given by the Project Proponent	Present Status
Stated that water retaining capacity in the tanks of Doragaripalli and Amarawadi villages may be affected due to the proposed OC mine.	GM Mandamarri clarified that there would not be any problem to the tanks of Doragaripalli and Amarawadi as the existing drainage system would not get disturbed.	There is no effect on retaining capacities of Doragaripalli and Amarawadi tanks. However Amarawadi tank was de-silted and removed 12500 m ³ of silt and formed a bund. In future, the tanks will be regularly de-silted and maintain their water level without any effects on ground water regime.
Stated that the proposed OC mine may lead to depletion of water table in the surrounding villages.	GM, MM informed that there would not be any depletion in the water table as the present proposal is to convert the existing underground mines in to an opencast mine.	Since the present Opencast proposal is exploitation of developed under ground pillars by opencast method. Thus there is no possibility of disturbance for the fresh ground water table; Therefore there is no scope for depletion of water in surrounding areas. However regular water levels in surrounding areas are being monitored.
Informed that paddy fields can not be given for the purpose of OC mine.	GM, MM assured that no paddy field would be taken without the consent of the villagers.	Paddy fields wouldn't be taken without the consent of the villagers.
Informed that there was temperatures rise coal mining areas due to the presence of OC mines at Ramagundam in particular	GM, MM clarified that the temperatures during the last 3 years have come down by 3° C – 4° C at Ramagundam which was just because of the green belt developed by SCCL.	Thick green belt is being developed in the vacant lands by the company i.e., 884 ha block plantation and also the regular efforts have been put continually, as such temperatures are fallen down from 48°C to 44°C during summer season for the last six years.
Stated that many skin disease cases were	GM, MM clarified that there was no such incidence and	This may not be the fact, because so far in the opencast mining areas, there is no

Issue raised by the Public	Clarification given by the Project Proponent	Present Status
found in Thallapalli Village due to the opencast mining operations.	it is not the fact that the opencast mining operations can result in to such disease.	noticeable incidents of skin diseases recorded and also it is a fact that coal mines activity comes under the purview of "Red-non hazardous" category and will not cause such diseases..
It was stated that this OC mine was not the only way for development of this area and economic progress of the public	In this regard, he illustrated the examples of Bhupalpalli where a lot of development has taken place because of SCCL mining activities. Further, GM, MM assured that similar development would also taken place in the area.	It is informed that the coal from this project is being linked to STPP, Jaipur of 2 x 600 MW and it is also evident that by establishing such thermal power plants and innumerable other ancillary units is being opened. As such, development of the surroundings caused bringing down the unemployment.
Demanded the management to provide drinking water facilities, supply of water to the village tanks for cultivation purposes, employment to the local unemployed people and to make every arrangement for the development of the area.	GM, MM said that SCCL is already coping the needs of surrounding villagers under "Surrounding Habitat Assistance Program (SHAPE)" and the same will be continued in future also.	All village tanks will be de-silted so that existing agriculture will not be hampered. Due to upcoming of the project, various ancillary units are being established and also present unemployment is being reduced by giving priority to the local people. Further, various trainings is being imparted to the educated youth to stop their migration to various places for searching jobs. 42 nos. drinking water bore wells have provided in the surrounding villages and also water will be supplied through tankers if any village wells go dry in summer season.
Demanded for starting of Old age home and establishing a Nursing College and providing all other amenities required for the work persons.	GM, MM said that SCCL is having a tie up with SRKM Nursing College, Mancheria in which 50% of the Govt. Quota Seats were allocated to the wards of SCCL employees on government fee rates.	SCCL is having a tie up with SRKM Nursing College, Mancheria in which 50% of the Govt. Quota seats were allocated to the wards of SCCL employees on government fee rates.


PROJECT OFFICER
RKOC
Project Officer,
RKPOC. MM.

Annexure-I

Forest Clearance Certificate

F. No. 8-26/2010-FC
Government of India
Ministry of Environment and Forests
(F.C. Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110003.
Dated: 31st May, 2013

To,
The Special Secretary to Government,
Environment, Forests, Science & Technology Deptt.,
A.P. Secretariat,
Hyderabad.

Sub: Diversion of 202.50 ha. forest land in favour of M/s. Singareni Collieries Company Limited (SCCL) for their proposed Ravindrakhani Opencast Project (Phase-I) in Indaram Reserved Forest in Mancherial Range of Mancherial Forest Division located in Adilabad District of Andhra Pradesh.

Sir,

I am directed to refer to Government of Andhra Pradesh's Letter No. 811/FOR.I (1)/2010-1 dated 15.02.2010 wherein prior approval of the Central Government for the diversion of 202.50 ha. forest land in favour of M/s. Singareni Collieries Company Limited (SCCL) for their proposed Ravindrakhani Opencast Project (Phase-I) in Indaram Reserved Forest in Mancherial Range of Mancherial Forest Division located in Adilabad District of Andhra Pradesh was sought, in accordance with Section 2 of the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under Section-3 of the said Act, stage-I approval for diversion of the said forest land was accorded by the Ministry vide its letter of even number dated 13th July, 2011, subject to fulfilment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the stage-I approval and has requested the Central Government to grant final approval.

2. In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government of Andhra Pradesh vide letter No. 811/For. I(1)/2010 dated 10.10.2012 and No. 811/For. I(1)/2010 dated 20.02.2013 approval of the Central Government is hereby granted under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 202.50 ha. forest land in favour of M/s. Singareni Collieries Company Limited (SCCL) for their proposed Ravindrakhani Opencast Project (Phase-I) in Indaram Reserved Forest in Mancherial Range of Mancherial Forest Division located in Adilabad District of Andhra Pradesh, subject to the following conditions:

- (i) Legal status of the diverted forest land shall remain unchanged;
- (ii) Compensatory afforestation over equivalent non-forest land transferred and mutated in favour of the State Forest Department shall be raised and maintained by the State Forest Department from the funds realised from the user agency;



- (iii) The non-forest land identified for raising Compensatory Afforestation shall be notified by the State Government as Reserved Forest under Section-4 or Protected Forest under Section-29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act, as the case may be, within a period of six months;
- (iv) The user agency shall transfer the cost of raising and maintaining the compensatory afforestation, at the current wage structure, to the State Forest Department;
- (v) The State Government shall realise the additional NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India and transfer the same to the ad-hoc CAMPA;
- (vi) Fencing, protection and regeneration of the safety zone area (7.5 metre strip all along the outer boundary of the mining lease area) shall be done undertaken by the User Agency at the project cost. Besides this, afforestation on degraded forest land, to be selected elsewhere, measuring one and a half times the area under safety zone, shall also be done at the project cost;
- (vii) The State Government shall implement the detailed proposal for harvesting and conservation of rain water in vicinity of the forest land proposed to be diverted prepared by the user agency from funds realised from the user agency;
- (viii) The State Government shall implement the detailed plan for promotion of Agro-Forestry and Social Forestry in vicinity of forest land proposed to be diverted from funds realised from the user agency;
- (ix) The period of diversion under this approval shall be twenty (20) years or till the expiry of the valid mining lease in favour of the User Agency, in accordance with the Mines and Minerals (Development & Regulating) Act, 1957, for the forest area to be diverted or till the life of the project, whichever is earlier;
- (x) The User Agency in consultation with the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.4) located in the area within 100 m. from outer perimeter of the mining lease;
- (xi) The User Agency shall, in consultation with the forest department, study soil erosion from the over-burden areas;
- (xii) The User Agency shall take up the de-silting of the village tanks located within five km from the mine lease boundary so as to mitigate the impact of siltation of such tanks whenever required;
- (xiii) The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan shall be executed by the User Agency from the very first year, and an annual report on implementation of the concurrent reclamation plan shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, Government of Andhra Pradesh and the



Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (Southern Zone), Bangalore. If it is found from the annual report that the annual activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the mining activities shall remain suspended till such time such activities are satisfactorily executed;

- (xiv) No labour camp shall be established on the forest land;
- (xv) Sufficient alternate fuel for cooking etc. shall be provided by the user agency to the labourers ;
- (xvi) The User Agency shall ensure that no damage is caused to the wildlife available in the area because of this project;
- (xvii) The entire project area and the safety zone shall be demarcated on ground at the project cost, using four feet high RCC pillars, with each pillar inscribed with the serial number, forward and backward bearings etc.;
- (xviii) The forest land shall not be used for any purpose other than that specified in the proposal;
- (xix) Any other condition that the Addl Principal Chief Conservator of Forests (Central), Regional Office, Bangalore or State Govt. may impose from time to time for protection and improvement of flora and fauna in the forest area; and
- (xx) User agency shall submit annual self-monitoring report, indicating status of compliance to the conditions stipulated in the approval, to the State Government and the concerned Regional Office of this Ministry; and
- (xxi) All other conditions including any other standard condition applicable to the diversion of forest land under the Forest (Conservation) Act, 1980 or any other relevant Rules, Regulations and Guidelines, including the Environment (Protection) Act, 1986.

Yours faithfully,

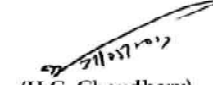


(H.C. Chaudhary)

Assistant Inspector General of Forests

Copy to:

1. Principal Chief Conservator of Forests, Andhra Pradesh, Hyderabad.
2. Nodal Officer, Office of the PCCF, Andhra Pradesh, Hyderabad.
3. The Addl. Principal Chief Conservator of Forests (Central), Regional Office (southern Zone), Bangalore.
- ✓ 4. User Agency.
5. RO (HQ), MoEF, New Delhi.
6. Monitoring Cell, FC Division, MoEF, New Delhi.
7. Guard File.



(H.C. Chaudhary)

Assistant Inspector General of Forests

PLANTATION PLAN



Annexure-III**Ground water quality monitoring data****Groundwater Sampling Locations**

Sl. No.	Sampling code	Date of Sampling		Sampling Location	Latitude	Longitude
		1 st Quarter	2 nd Quarter			
1	GW-2	26.09.2024	30.12.2024	Kyatanpalli	N 18°55'24.0"	E 79°27'28.8"
2	GW-3	26.09.2024	30.12.2024	Doragaripalli	N 18°53'54.6"	E 79°28'52.3"

Physico-Chemical, Bacteriological Characteristics of Groundwater Collected within the Study Area
Organoleptic and Physical Parameters

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-2 Kyatanpalli		GW-3 Doragaripalli	
						1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1.	Colour	Hazen	2120. B	5	15	<5	5	<5	5
2.	Odour	TON	2150. B	Agreeable	Agreeable	Agree.	Agree.	Agree.	Agree.
3.	pH	-	4500-H*B	6.5 to 8.5	No relaxation	7.1	7.2	7.0	7.3
4.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.	Agree.	Agree.
5.	Turbidity	NTU	2130. B	1	5	0.1	0.18	0.3	0.24
6.	Total Dissolved Solids at 180° C	mg/L	2540.C	500	2000	866	552	622	632

General Parameters Concerning Substances Undesirable in Excessive Amounts

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-2 Kyatanpalli		GW-3 Doragaripalli	
						1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1.	Calcium as Ca	mg/L	3500-Ca.B	75	200	138	38	92	60
2.	Magnesium as Mg	mg/L	3500-Mg.B	30	100	61	20	58	35
3.	Chlorides as Cl-	mg/L	4500-Cl-.B	250	1000	179	120	89	120
4.	Sulphates as SO42-	mg/L	4500-SO42- .E	200	400	126	56	56	51
5.	Fluoride as F-	mg/L	4500-F-.C	1.0	1.5	1.2	0.91	0.77	0.84
6.	Nitrates as NO3	mg/L	4500-NO3-.B	45	No relaxation	26	35	44	38
7.	Total Alkalinity as CaCO3	mg/L	2320. B	200	600	420	240	395	335
8.	Total Hardness as CaCO3	mg/L	2340. C	200	600	596	178	469	294
9.	Sulphide as H ₂ S	mg/L	4500-S2-F&D	0.05	No relaxation	BDL	BDL	BDL	BDL
10.	Total Ammonia-N	mg/L	IS 3025 (Part 34)	0.5	No relaxation	BDL	BDL	BDL	BDL
11.	Phenolic compounds as C6H5OH	mg/L	5530-D	0.001	0.002	BDL	BDL	BDL	BDL
12.	Residual free chlorine	mg/L	4500-Cl-.B	0.2	1.0	BDL	BDL	BDL	BDL
13.	Mineral oil	mg/L	IS:3025 (part 39)	0.5	No relaxation	absent	absent	absent	absent
14.	Anionic Detergents (as MBAS)	mg/L	IS:13428:2005K	0.2	1.0	<0.2	<0.2	<0.2	<0.2
15.	Aluminium as Al	mg/L	3120-B	0.03	0.2	0.07	BDL	BDL	BDL
16.	Barium as Ba	mg/L	3120. B	0.7	No relaxation	0.18	0.21	0.19	0.12
17.	Boron as B	mg/L	3120-B	0.5	2.4	0.12	0.11	0.11	0.07
18.	Iron as Fe	mg/L	3120-B	1.0	No relaxation	0.66	0.61	0.46	0.48
19.	Zinc as Zn	mg/L	3120-B	5	15	0.14	0.11	0.18	0.15
20.	Copper as Cu	mg/L	3120-B	0.05	1.5	BDL	BDL	BDL	BDL
21.	Manganese as Mn	mg/L	3120-B	0.1	0.3	BDL	BDL	BDL	BDL
22.	Selenium as Se	mg/L	3120-B	0.01	No relaxation	BDL	BDL	BDL	BDL
23.	Silver as Ag	mg/L	3120. B	0.1	No relaxation	BDL	BDL	BDL	BDL

Parameters Concerning Toxic Substances

S.No	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-2 Kyatanpalli		GW-3 Doragaripalli	
						1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1.	Cadmium as Cd	mg/L	3120-B	0.003	No relaxation	BDL	BDL	BDL	BDL
2.	Cyanide as CN-	mg/L	4500-CN-.F	0.05	No relaxation	BDL	BDL	BDL	BDL
3.	Lead as Pb	mg/L	3120-B	0.01	No relaxation	BDL	BDL	BDL	BDL
4.	Molybdenum as Mo	mg/L	3120. B	0.07	No relaxation	BDL	BDL	BDL	BDL
5.	Nickel as Ni	mg/L	3120-B	0.02	No relaxation	BDL	BDL	BDL	BDL
6.	Total Arsenic as As	mg/L	3120-B	0.01	0.05	BDL	BDL	BDL	BDL
7.	Total Chromium as Cr	mg/L	3120-B	0.05	No relaxation	BDL	BDL	BDL	BDL
8.	Mercury as Hg	µg/L	3500-Hg.B	0.001	No relaxation	BDL	BDL	BDL	BDL
9.	Pesticides: α-BHC, β-BHC, γ-BHC, δ-BHC, o, p-DDT, p, p' -DDT, Endosulfan, β- Endosulfan, Aldrin, Dieldrin	µg/L	6630. D	Absent	0.001	ND	ND	ND	ND
	2,4-D, Carbaryl (Carbonate) Malathion Methyl Parathion Anilophos, Chloropyriphos	Qualitative analysis	6630. D	Absent	0.001	ND	ND	ND	ND
10	Polyaromatic Hydrocarbons (PAH's): Acenaphthene, Acenaphthylene, Anthracene, B(a)A, B(a)P, B(b)F, B(k)F, Pyrene, Dibenz (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-d) Pyrene, Naphthalene, Phenanthrene, Pyrene, Methyl Naphthalene	µg/L	6440.C	--	--	ND	ND	ND	ND

Bacteriological Quality of Drinking water

S. No.	Parameters	Unit	Test Method	IS: 10500 Requirement (Acceptable Limit)	IS: 10500 Permissible Limit in the absence of alternate source	RESULT			
						GW-2 Kyatanpalli		GW-3 Doragaripalli	
						1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1	Total Coliforms	MPN/100 mL	9221B	-	-	<1.8	<1.8	<1.8	<1.8
2	Fecal Coliforms	MPN/100 mL	9221 E	-	-	<1.8	<1.8	<1.8	<1.8

NTU – Nephelometric Turbidity Unit; BDL – Below Detection Limit

Detection Limits of Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Chromium (Cr)/Total Chromium, Cobalt (Co), Copper (Cu), Iron (Fe), Lead (Pb), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Nickel (Ni), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn), Phenols is 0.01mg/L. Detection Limit of Mercury (Hg), Phosphates/Total Phosphates, Nitrites NO₂, Free Ammonia, Total Ammonia is 0.02mg/L. Detection Limits of Potassium (K), Sodium (Na) is 0.03mg/L. Detection Limits of Cyanide (CN), Sulfide (S₂), Hexavalent Chromium Cr+6 is 0.05mg/L. Detection Limits of Nitrates as NO₃, Fluoride is 0.1mg/L. Detection Limits of Residual Free chlorine, Free Available chlorine, O&G is 1mg/L. Detection Limits of Sulfate SO₄⁻², Ammonical Nitrogen, Total Kjeldahl Nitrogen (TKN), COD, Total Nitrogen (TN) is 5mg/L. BOD-3mg/L. ND-Not Detected; Detection Limit: Pesticides– 0.1 ppm; PAHs – 1 ppm.

Annexure-IV

Peizometric monitoring data
Attitude of phreatic surface in Peizometric wells
Mandamarri

S. No.	Location	Peizometric well No.	Depth (m)	Dia (m)	Measuring point (m)	Period	Depth to water (m)				
							2021	2022	2023	2024	2025
1	In front of Alphonsa school, about 400m from western edge of quarry excavation limit.	RKOCP_PW-1	50	0.1	0.4	Winter	4.19	3.82	4.59	4.22	5.10
						Pre-monsoon	5.73	5.44	5.24	6.38	
						Monsoon	3.65	2.39	3.54	2.30	
						Post-monsoon	3.73	3.79	3.84	4.30	
2	In Central Magazine, About 500m from Eastern edge of quarry excavation limit.	RKOCP_PW-2	50	0.1	0.4	Winter	7.08	5.50	5.42	3.94	5.81
						Pre-monsoon	8.33	7.59	6.89	5.15	
						Monsoon	5.43	2.90	3.34	2.47	
						Post-monsoon	5.46	3.74	5.23	3.00	
3	Near RKP-CHP Filter bed, About 1.3km from NW corner of quarry excavation limit.	RKOCP_PW-3	50	0.1	0.5	Winter	4.14	3.97	3.82	3.98	WD
						Pre-monsoon	4.46	4.56	4.32	4.40	
						Monsoon	3.18	3.27	3.32	3.10	
						Post-monsoon	3.86	3.73	3.91	3.60	
4	In RKP Area Hospital, About 1 km from NW of the excavation limit.	RKOCP_PW-5	50	0.1	0.4	Winter	10.82	10.59	10.07	8.92	9.45
						Pre-monsoon	NA	11.61	10.29	9.84	
						Monsoon	7.84	8.14	7.63	6.55	
						Post-monsoon	3.86	8.61	8.69	8.39	
6	Near Check post of CHP-SRP, About 1400m from south side excavation limit.	RKOCP_PW-6	50	0.1	0.5	Winter	19.79	19.21	19.00	16.10	14.45
						Pre-monsoon	20.27	20.02	16.45	16.60	
						Monsoon	15.84	10.71	14.48	10.50	
						Post-monsoon	17.81	11.28	15.43	10.45	

Note:- MP: Measuring point and Peizometric Well No. RKOCP PW-4 and RKOCP PW-7 were abandoned.

ATTITUDE OF PHREATIC SURFACE IN GODAVARI VALLEY COAL FIELD

Area:Mandamarri

Well No.	Name of village	Location	Type of well	Dimensions (m)	Total depth (m)	Geology	Measuring point (m)	Period	YEAR					Nearest mine & dist. (km)
									2021	2022	2023	2024	2025	
2	Rama Krishnapur	B zone X-Road	Domestic	1.0	6.0	Talchir Fm.	0.60	Winter	4.63	2.50	2.41	2.82	2.62	RKPOC
								Pre-monsoon	4.80	3.90	3.18	3.25		
								Monsoon	1.78	1.41	2.67	1.35		0.6
								Post-monsoon	1.78	1.98	3.08	2.20		
3	Ketanpalli	Near Rly Gate towards RKP	Domestic	3.0	9.3	Sullavai Fm.	0.20	Winter	8.52	5.03	5.23	6.27	AB	RKPOC
								Pre-monsoon	8.64	7.90	7.87	8.15		
								Monsoon	2.50	2.00	2.64	WD		2.25
								Post-monsoon	3.22	3.54	3.63	AB		
5	Adilpet	Centre of the village	Domestic	3.0	11.0/12.0	Kamthi Fm.	0.50	Winter	7.67	5.53	5.47	5.50	6.15	RKPOC
								Pre-monsoon	10.57	10.43	5.50*	5.65		
								Monsoon	4.45	2.10	2.22	1.77		5.5
								Post-monsoon	5.26	5.03	5.07	2.90		
6	Mamidigattu	Village road junction	Domestic	2.8	9/7.7	Kamthi Sst	G.L	Winter	6.68	6.33	5.80	6.24	6.34	RKPOC
								Pre-monsoon	7.10	7.15	6.60*	6.50		
								Monsoon	6.23	2.55	4.96	3.40		6.3
								Post-monsoon	6.28	4.48	5.73	4.65		
7	Avudam	In the village	Domestic	3.0	7.5	Kamthi Fm.	G.L	Winter	6.81	5.26	5.38	5.83	5.38	RKPOC
								Pre-monsoon	6.87	7.24	5.47	6.00		
								Monsoon	1.80	1.15	2.23	2.00		7.8
								Post-monsoon	4.92	3.98	3.72	4.55		

HYMR Report of RKPOCP for the period from October-2024 to March-2025

Well No.	Name of village	Location	Type of well	Dimensions (m)	Total depth (m)	Geology	Measuring point (m)	Period	YEAR					Nearest mine & dist. (km)
									2021	2022	2023	2024	2025	
8	Avudam	Road side towards village	Agriculture	4.5	6.0	Kamthi Fm.	G.L	Winter	6.68	3.26	3.55	4.33	AB	RKPOC
								Pre-monsoon	7.07	5.98	5.07	5.50		
								Monsoon	2.10	1.15	2.08	0.80		7.8
								Post-monsoon	3.11	2.92	2.71	AB		
9	Sarangapalli	Main road	Domestic	1.3	10.0	Barren Measures Fm.	0.50	Winter	1.51	1.94	2.08	1.97	1.77	RKPOC
								Pre-monsoon	4.46	3.97	2.60	2.60		
								Monsoon	1.10	1.13	1.23	1.34		3.80
								Post-monsoon	1.89	1.73	1.80	1.25		

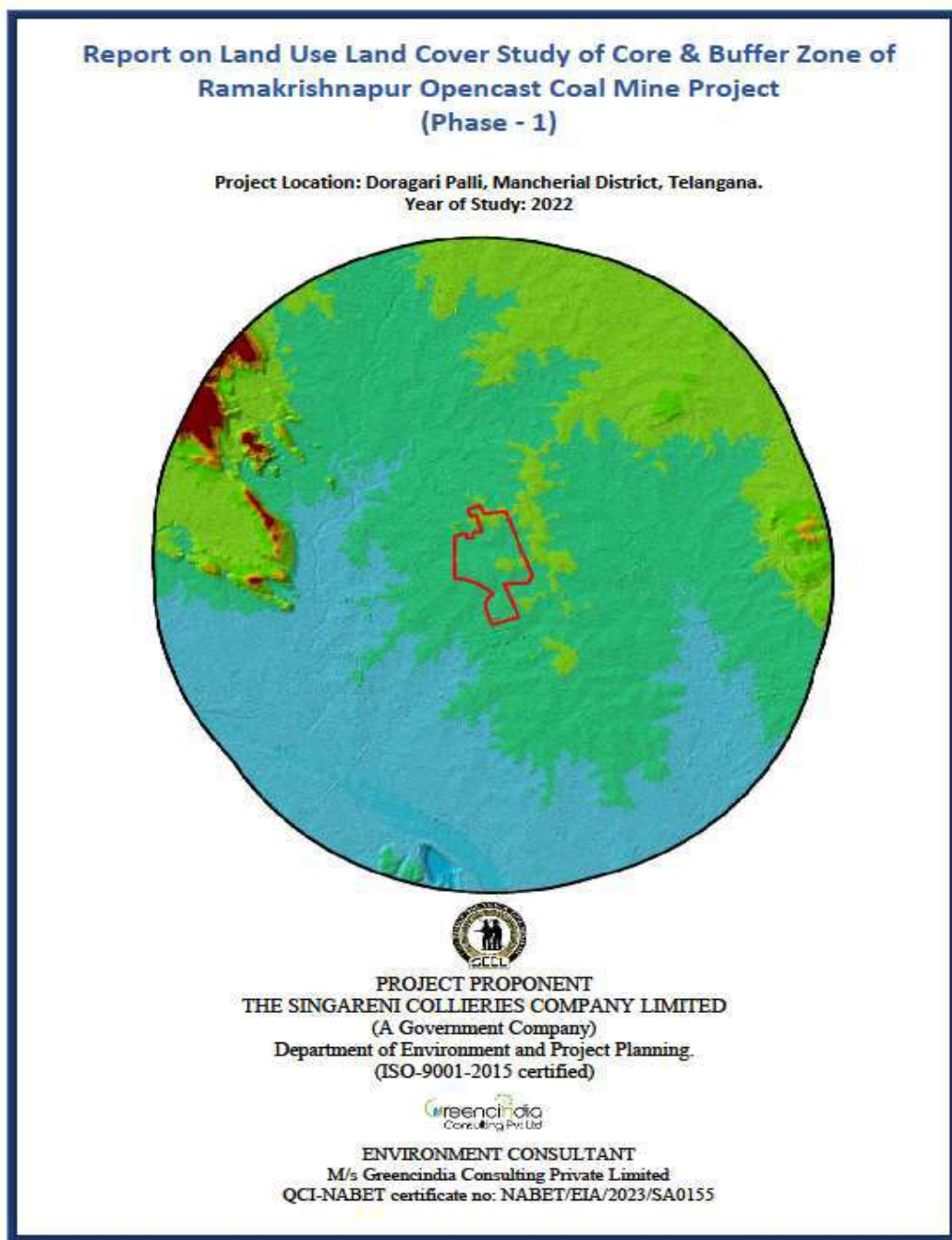
Note: * indicates new well started adjacent to the previous existing well

NA : Not approachable

NR : Not Recorded

Annexure-V

LAND USE LAND COVER



Note: Land use and Land cover report attached.

Annexure-VI

The summary of the Ambient Air monitoring from October-2024 to March-2025 as follows:

Air Monitoring Locations

Station Code	Name of the Stations	Latitude	Longitude
Core Zone			
CA7	RKP CHP	N 18° 56' 11.6"	E 79° 28' 31.1"
CA8	RKP OC BWS	N 18° 55' 16.5"	E 79° 28' 55.6"
CA9	RKP OC Pit Head CHP	N 18° 55' 21.5"	E 79° 28' 58.0"
CA10	300 Hp Pumping Station	N 18° 53' 24"	E 79° 29' 55"
Buffer Zone			
BA4	Sarangapalli	N 18° 56' 40.6"	E 79° 30' 46.2"
BA5	RKP Colony	N 18° 56' 17.5"	E 79° 28' 14.8"
BA6	Amarvadi	N 18° 55' 08.6"	E 79° 28' 22.6"
BA7	Venkatapuram	N 18° 54' 34.4"	E 79° 32' 03.1"

Ambient Air Quality at RKP CHP (CA7)

Area : Mandamarri Nature of Area : Core Zone
 Period of Monitoring : October 2024 – March 2025 Sampling Duration : 24hrs period

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
Coal mine standards, GSR 742(E), Dated 25.09.2000		300	-	120	120
1.	09.10.2024	182	80.0	15.9	18.8
2.	19.10.2024	75	70	59.7	49.3
3.	08.11.2024	184	79.3	15.8	18.9
4.	23.11.2024	191	80.7	16.3	19.2
5.	09.12.2024	188	82.9	16.9	19.9
6.	23.12.2024	180	78.0	16.0	19.0
7.	09.01.2025	177	74.4	15.5	18.5
8.	23.01.2025	174	73.2	15.0	18.8
9.	08.02.2025	170	70.0	15.4	18.1
10.	22.02.2025	175	72.6	14.9	17.4
11.	08.03.2025	178	70.6	15.8	18.0
12.	24.03.2025	181	74.3	16.0	18.5
Min		75.0	70.0	14.9	17.4
Max		191.0	82.9	59.7	49.3
Average		171.3	75.5	19.4	21.2
98 Percentile		190.3	82.4	50.3	42.8

- No standard was specified for PM_{2.5} in core zone

Ambient Air Quality at RKP OC BWS (CA8)

Area : Mandamarri Nature of Area : Core Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		250	-	120	120
1.	09.10.2024	176	73.8	15.6	18.6
2.	23.10.2024	171	69.4	15.0	18.0
3.	08.11.2024	175	73.2	15.7	18.5
4.	23.11.2024	177	74.4	16.1	19.0
5.	09.12.2024	173	70.0	16.7	19.8
6.	23.12.2024	169	66.7	15.9	18.8
7.	09.01.2025	163	62.1	14.6	17.2
8.	23.01.2025	154	54.1	14.0	17.7
9.	08.02.2025	151	51.3	14.4	17.1
10.	22.02.2025	147	50.0	13.9	16.7
11.	08.03.2025	143	49.6	14.3	17.3
12.	24.03.2025	146	50.4	14.8	17.9
Min		143.0	49.6	13.9	16.7
Max		177.0	74.4	16.7	19.8
Average		162.1	62.1	15.1	18.1
98 Percentile		176.8	74.3	16.6	19.6

Ambient Air Quality at RKP OC Pit Head CHP (CA9)

Area : Mandamarri Nature of Area : Core Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		250	-	120	120
1.	09.10.2024	179	74.4	16.8	19.3
2.	23.10.2024	173	71.2	16.3	19.7
3.	08.11.2024	178	75.0	16.7	20.0
4.	23.11.2024	182	78.0	17.0	20.5
5.	09.12.2024	177	75.6	17.6	20.9
6.	23.12.2024	165	64.4	16.8	19.4
7.	09.01.2025	161	60.0	15.6	18.8
8.	23.01.2025	150	50.8	15.1	18.0
9.	08.02.2025	147	51.7	14.0	17.2
10.	22.02.2025	143	50.4	13.7	16.8
11.	08.03.2025	139	47.4	13.2	16.3
12.	24.03.2025	141	47.0	13.8	16.7
Min		139.0	47.0	13.2	16.3
Max		182.0	78.0	17.6	20.9
Average		161.3	62.2	15.6	18.6
98 Percentile		181.3	77.5	17.5	20.8

Ambient Air Quality at 300 Hp Pumping Station (CA10)

Area : Mandamarri Nature of Area : Core Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		250	-	120	120
1.	09.10.2024	130	49.2	15.0	18.2
2.	23.10.2024	122	49.6	14.7	17.9
3.	08.11.2024	128	45.4	15.3	18.3
4.	23.11.2024	123	45.0	15.9	18.8
5.	09.12.2024	120	46.5	16.1	19.3
6.	23.12.2024	117	44.3	15.4	18.5
7.	09.01.2025	112	40.0	14.4	17.3
8.	23.01.2025	110	39.7	13.8	16.5
9.	08.02.2025	107	36.8	12.3	15.7
10.	22.02.2025	100	38.7	12.0	15.0
11.	08.03.2025	97	35.6	11.8	14.7
12.	24.03.2025	94	33.2	12.1	15.3
Min		94.0	33.2	11.8	14.7
Max		130.0	49.6	16.1	19.3
Average		113.3	42.0	14.1	17.1
98 Percentile		129.6	49.5	16.1	19.2

Ambient Air Quality at Sarangapalli (BA4)

Area : Mandamarri Nature of Area : Buffer Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		100	60	80	80
1.	07.10.2024	50	24.2	9.0	12.2
2.	21.10.2024	48	24.0	8.5	11.9
3.	06.11.2024	51	25.2	9.1	12.5
4.	21.11.2024	54	27.3	9.6	12.8
5.	06.12.2024	60	28.8	10.0	13.1
6.	20.12.2024	55	27.8	9.4	12.3
7.	07.01.2025	49	24.5	8.9	11.8
8.	21.01.2025	45	23.1	8.4	11.1
9.	06.02.2025	48	24.2	8.0	11.7
10.	20.02.2025	46	23.3	7.7	10.9
11.	06.03.2025	50	24.7	8.1	11.6
12.	21.03.2025	52	25.1	8.5	11.2
Min		45.0	23.1	7.7	10.9
Max		60.0	28.8	10.0	13.1
Average		50.7	25.2	8.8	11.9
98 Percentile		58.9	28.6	9.9	13.0

Ambient Air Quality at RKP Colony (BA5)

Area : Mandamarri Nature of Area : Buffer Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring : March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		100	60	80	80
1.	09.10.2024	53	26.8	9.9	12.9
2.	23.10.2024	49	23.5	9.0	12.3
3.	08.11.2024	55	27.3	9.8	12.7
4.	23.11.2024	60	29.1	10.2	13.0
5.	09.12.2024	64	32.1	10.9	13.7
6.	23.12.2024	59	28.3	10.1	13.1
7.	09.01.2025	54	27.5	9.7	12.7
8.	23.01.2025	51	25.9	9.1	12.4
9.	08.02.2025	49	25.0	9.6	12.9
10.	22.02.2025	52	26.5	9.2	12.2
11.	08.03.2025	55	27.8	9.9	12.8
12.	24.03.2025	57	28.0	10.2	13.0
Min		49.0	23.5	9.0	12.2
Max		64.0	32.1	10.9	13.7
Average		54.8	27.3	9.8	12.8
98 Percentile		63.1	31.4	10.7	13.6

Ambient Air Quality at Amarvadi (BA6)

Area : Mandamarri Nature of Area : Buffer Zone
 Period of : October 2024 – Sampling : 24hrs period
 Monitoring : March 2025 Duration

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		100	60	80	80
1.	08.10.2024	52	26.3	9.6	12.3
2.	22.10.2024	47	23.8	9.1	12.0
3.	07.11.2024	52	26.3	10.0	13.1
4.	22.11.2024	56	26.8	10.5	13.5
5.	07.12.2024	53	25.9	11.0	14.1
6.	21.12.2024	49	24.0	10.6	13.9
7.	08.01.2025	45	22.9	9.8	12.9
8.	22.01.2025	40	20.9	9.2	12.2
9.	07.02.2025	43	22.0	8.6	11.8
10.	21.02.2025	40	21.8	8.1	11.3
11.	07.03.2025	44	22.2	8.7	11.7
12.	22.03.2025	47	23.1	9.0	12.0
Min		40.0	20.9	8.1	11.3
Max		56.0	26.8	11.0	14.1
Average		47.3	23.8	9.5	12.6
98 Percentile		55.3	26.7	10.9	14.1

Ambient Air Quality at Venkatapuram (BA7)

Area : Mandamarri **Nature of Area** : Buffer Zone
Period of Monitoring : October 2024 – March 2025 **Sampling Duration** : 24hrs period

S.No.	Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
NAAQ Standards, CPCB Dated : 18.11.2009		100	60	80	80
1.	08.10.2024	46	22.2	8.6	11.7
2.	22.10.2024	42	21.4	8.1	11.1
3.	07.11.2024	45	22.4	8.9	11.8
4.	22.11.2024	50	23.8	9.4	12.2
5.	07.12.2024	54	26.5	9.8	12.9
6.	21.12.2024	47	23.3	9.3	12.0
7.	08.01.2025	43	22.0	8.8	11.5
8.	22.01.2025	39	19.8	8.3	11.0
9.	07.02.2025	41	20.7	7.9	10.3
10.	21.02.2025	38	20.0	7.4	10.7
11.	07.03.2025	40	21.4	7.8	10.2
12.	22.03.2025	42	21.0	8.1	11.0
Min		38.0	19.8	7.4	10.2
Max		54.0	26.5	9.8	12.9
Average		43.9	22.0	8.5	11.4
98 Percentile		53.1	25.9	9.7	12.7

Summary of Ambient Air Quality Data Monitoring

Location code	Name of the location	PM ₁₀ (mg/m ³)			PM _{2.5} (mg/m ³)			SO ₂ (mg/m ³)			NO ₂ (mg/m ³)		
Coal mine standards (commenced after 25.09.2000), GSR 742(E), Dated 25.09.2000		300			-			120			120		
CA7	RKP CHP	75.0	191.0	171.3	70.0	82.9	75.5	14.9	59.7	19.4	17.4	49.3	21.2
Coal mine standards (commenced after 25.09.2000), GSR 742(E), Dated 25.09.2000		250			-			120			120		
CA8	RKP OC BWS	143.0	177.0	162.1	49.6	74.4	62.1	13.9	16.7	15.1	16.7	19.8	18.1
CA9	RKP OC Pit Head CHP	139.0	182.0	161.3	47.0	78.0	62.2	13.2	17.6	15.6	16.3	20.9	18.6
CA10	300 Hp Pumping Station	94.0	130.0	113.3	33.2	49.6	42.0	11.8	16.1	14.1	14.7	19.3	17.1

Location code	Name of the location	PM10 (µg/m3)			PM2.5 (µg/m3)			SO2 (µg/m3)			NO2 (µg/m3)		
NAAQ Standards, CPCB Dated: 18.11.2009		100			60			80			80		
Buffer Zone		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
BA4	Sarangapalli	45.0	60.0	50.7	23.1	28.8	25.2	7.7	10.0	8.8	10.9	13.1	11.9
BA5	RKP Colony	49.0	64.0	54.8	23.5	32.1	27.3	9.0	10.9	9.8	12.2	13.7	12.8
BA6	Amarvadi	40.0	56.0	47.3	20.9	26.8	23.8	8.1	11.0	9.5	11.3	14.1	12.6
BA7	Venkatapuram	38.0	54.0	43.9	19.8	26.5	22.0	7.4	9.8	8.5	10.2	12.9	11.4

Annexure-VII**Effluent monitoring data****Effluents sampling locations**

Sl.No.	Sample code	Name of the Location	Latitude	Longitude
1	EW1	RKP OCP Mine Discharge	N 18° 54' 45.2"	E 79° 30' 00.9"
2	EW2	RKP OC Base Workshop ETP Outlet	N 18° 55' 09.0"	E 79° 29' 01.0"
3	EW3*	RKP OC OB Dump Runoff/Settling Pond Outlet	N 18° 54' 08.0"	E 79° 29' 21.6"

Characteristics of Effluents – RKPOCP Mine Discharge (EW1)

Sl. No.	Date of Sampling	pH	TSS at 105°C	TDS at 180°C	COD	BOD	Oil & Grease
	Unit	--	mg/L	mg/L	mg/L	mg/l	mg/L
	Test Method	4500-H ⁺ B	2540-D	2540-C	5220-D	IS 3025	5520-B
	MoEF GSR 742 (E) and GSR 801(E) Effluent Standards for coal mines	5.5 to 9.0	100	--	250	30	10
1.	15.10.2024	7.2	28	964	27	3.4	<1
2.	31.10.2024	7.8	36	894	36	5.2	<1
3.	15.11.2024	7.7	23	915	43	4.4	<1
4.	30.11.2024	7.5	31	795	32	3.6	<1
5.	13.12.2024	7.7	27	714	28	5.2	1
6.	31.12.2024	7.1	35	897	35	6.2	<1
7.	12.01.2025	8.2	30	931	40	4.4	<1
8.	31.01.2025	7.3	24	842	31	3.6	<1
9.	15.02.2025	7.4	32	996	48	5.5	<1
10.	28.02.2025	8.1	27	794	28	3.2	<1
11.	13.03.2025	7.5	35	654	36	4.4	1
12.	29.03.2025	7.6	42	611	40	4.4	1.2

Characteristics of Effluents – RKP OC OB Dump Runoff / Settling Pond Outlet (EW3)**Characteristics of Effluents – RKP OC OB Dump Runoff/Settling Pond Outlet (EW3)**

Sl. No.	Date of Sampling	pH	TSS at 105°C	TDS at 180°C	COD	BOD	Oil & Grease
Unit		--	mg/L	mg/L	mg/L	mg/l	mg/L
Test Method		4500-H ⁺ B	2540-D	2540-C	5220-D	IS 3025	5520-B
MoEF GSR 742 (E) and GSR 801(E) Effluent Standards for coal mines		5.5 to 9.0	100	--	250	30	10
1.	15.10.2024	7.5	38	854	31	3.4	<1
2.	31.10.2024	--	--	--	--	--	--

Annexure-VIII**Characteristics of Effluents – RKP OC Base Workshop ETP Outlet (EW2)**

Sl. No.	Date of Sampling	pH	TSS at 105°C	TDS at 180°C	COD	BOD	Oil & Grease
Unit		--	mg/L	mg/L	mg/L	mg/l	mg/L
Test Method		4500-H ⁺ B	2540-D	2540-C	5220-D	IS 3025	5520-B
MoEF GSR 742 (E) and GSR 801(E) Effluent Standards for coal mines		5.5 to 9.0	100	--	250	30	10
1.	15.10.2024	7.8	75	1241	67	13.6	2.4
2.	31.10.2024	7.4	62	1125	56	14.4	2
3.	15.11.2024	7.9	78	1271	63	15.3	2.2
4.	30.11.2024	7.3	59	1045	52	13.2	2.4
5.	13.12.2024	7.9	75	1152	68	14.4	2.4
6.	31.12.2024	7.7	68	1094	47	10.5	2
7.	12.01.2025	7.8	56	1176	60	12.5	2.6
8.	31.01.2025	7.4	64	1231	55	13.4	3
9.	15.02.2025	7.3	71	1455	64	16.2	2.4
10.	28.02.2025	7.6	59	1028	48	11.5	2
11.	13.03.2025	7.4	51	968	56	12.5	2.2
12.	29.03.2025	7.9	67	1192	44	8.2	1.8

Annexure-IX

Noise quality monitoring data**Noise monitoring locations**

Station Code	Name of the Stations	Latitude	Longitude
Core Zone			
CN1	RKPOCP Project Office	N 18° 55' 21.5"	E 79° 28' 58.0"
CN2	RKPOCP Base Workshop	N 18° 55' 16.5"	E 79° 28' 55.6"
Buffer Zone			
BN1	RKP Colony	N 18° 56' 17.5"	E 79° 28' 14.8"
BN2	Sarangapalli	N 18° 56' 40.6"	E 79° 30' 46.2"

Summary of Noise Levels

Location Code	Monitoring stations	Standard limits of Noise		October 1 st Fortnight			October, 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN1	RKPOCP Project Office	75	70	09.10.2024	59.7	49.8	23.10.2024	59.4	49.2
CN2	RKPOCP Base Workshop	75	70	09.10.2024	60.6	48.7	23.10.2024	60.0	48.2
Buffer Zone									
BN1	RKP Colony	55	45	09.10.2024	48.8	38.6	23.10.2024	48.4	38.1
BN2	Sarangapalli	55	45	07.10.2024	48.1	38.3	21.10.2024	47.8	37.8

ocation Code	Monitoring stations	Standard limits of Noise		November 1 st Fortnight			November 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN1	RKPOCP Project Office	75	70	08.11.2024	58.9	48.8	23.10.2024	59.4	49.2
CN2	RKPOCP Base Workshop	75	70	08.11.2024	59.8	47.9	23.11.2024	59.3	47.3
Buffer Zone									
BN1	RKP Colony	55	45	08.11.2024	48.0	37.9	23.11.2024	47.8	37.5
BN2	Sarangapalli	55	45	06.11.2024	47.3	37.2	21.11.2024	47.0	36.9

Location Code	Monitoring stations	Standard limits of Noise		December 1 st Fortnight			December 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN1	RKPOCP Project Office	75	70	09.12.2024	58.8	49.1	23.12.2024	58.1	48.6
CN2	RKPOCP Base Workshop	75	70	09.12.2024	59.6	48.1	23.12.2024	58.9	47.7
Buffer Zone									
BN1	RKP Colony	55	45	09.12.2024	48.1	38.0	23.12.2024	48.6	38.3
BN2	Sarangapalli	55	45	06.12.2024	47.7	37.3	20.12.2024	48.0	37.7

ocation Code	Monitoring stations	Standard limits of Noise		January 1 st Fortnight			January, 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN1	RKPOCP Project Office	75	70	09.01.2025	57.7	47.9	23.01.2025	57.0	47.1
CN2	RKPOCP Base Workshop	75	70	09.01.2025	58.5	47.4	23.01.2025	57.7	46.0
Buffer Zone									
BN1	RKP Colony	55	45	09.01.2025	47.9	37.8	23.01.2025	47.5	37.4
BN2	Sarangapalli	55	45	07.01.2025	47.5	37.0	21.01.2025	46.9	36.8

Location Code	Monitoring stations	Standard limits of Noise		February 1 st Fortnight			February 2 nd Fortnight		
				Noise levels in dB (A)					
		Day time	Night time	Date of Sampling	Leq Day	Leq Night	Date of Sampling	Leq Day	Leq Night
Core Zone									
CN1	RKPOCP Project Office	75	70	08.02.2025	55.8	45.8	22.02.2025	56.1	46.0
CN2	RKPOCP Base Workshop	75	70	08.02.2025	56.0	45.6	22.02.2025	56.3	45.1
Buffer Zone									
BN1	RKP Colony	55	45	08.02.2025	47.7	38.1	22.02.2025	48.1	38.7
BN2	Sarangapalli	55	45	06.02.2025	47.4	37.1	20.02.2025	47.9	37.6

Annexure-X

Vehicular Exhaust Emissions study has been monitored for Heavy Earth Moving Machinery (HEMM) at RKPOCP, Mandamarri Area.



**Smoke density is measured in HSU % light absorption coefficient is measured in Km^{-1}
Standard HSU % is 65 %,light absorption coefficient is 2.45 Km^{-1}**

0. 0 Vehicular Emissions Study:

0.1 Introduction:

Vehicular Exhaust Emissions study has been monitored for Heavy Earth Moving Machinery (HEMM) in Mandamarriarea. The parameter measured is smoke density (K). Smoke density is a function of the number of smoke particles per unit volume, the size distribution of the smoke particles, and the light distribution and the light absorption study. Smoke density is also known as Light Extinction Coefficient and Light Absorption Coefficient. By convention, smoke density is expressed on a per meter basis (m^{-1}). Smoke density is measured in HSU % and light absorption coefficient K is measured in m^{-1}

The Automotive Exhaust Monitor used in this emissions study (Make: AVL India Private Limited, Model AVL 437C), approved by Automotive Research Association of India (ARAI), Pune. The observed values are compared with standards prescribed by Ministry of Road transport and highway as per Act. CMVR - 115(2) (C). The standards are presented in Table 7.1. HEMM Vehicular emissions results in Mandamarri area are presented in Table 7.2

RKPOCP HYMR Report from October-2024 to March-2025

Vehicular Emissions Study in RKPOCP:

Sl.No	Eqpt Type/Capacity	Eqpt Name	Make	D.O.C	HRS RUNNED	Tested Date	HSU % 65	K m-1 2.45	Test Status
1	Water Tanker	WS-3	BEML	1.10.2021	12264	22.1.2025	45.4	0.91	PASS
2	Motor GRADER	MG-1	Volvo	11.10.2021	8669	22.1.2025	34.1	0.28	PASS
3	Shovel pc-450	Godavari	Komat	1.10.20220		22.1.2025	25.4	0.82	PASS
4	Shovel	SANY	BEML	23.11.2020	2391	22.1.2025	29.2	0.45	PASS
5	DUMPER-60T	Cp-302	CAT	25.11.2020	19016	22.1.2025	29.3	0.18	PASS
6	Dozer	D-4	BEML	14.10.2019	8668	22.1.2025	35.5	0.75	PASS
7	Dozer	D-2	BEML	17.04.2013	2508	22.1.2025	41.4	0.82	PASS
8	Loader	L-1	BEML	15.04.2018	2932	22.1.2025	25.2	0.15	PASS
9	DUMPER- 60T	B-13	BEML	16.10.2017	1276	22.1.2025	31.3	0.51	PASS
10	CRANE	CR-1	ESCORT	10.11.2018	943	22.1.2025	29.7	0.18	PASS
11	Tyre handler	TH-1	BEML	17.04.2017	1916	22.1.2025	48.5	0.64	PASS

Total no of vehicles	11
No of vehicles tested	11
Passed vehicles	11
Failed vehicles	0
break down vehicles (B/D)	0

Summary of Vehicular emission data :

The Total number of HEMM vehicles studied in Mandamarri area were 08,for all HEMM vehicles the Smoke density has not exceeded the stipulated limit of 65% Hatridge smoke Units (%),

Annexure-XI**Consent for Establishment**

ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAYARAN BHAVAN, A-3, INDUSTRIAL ESTATE
SANATHNAGAR, HYDERABAD - 500 078

Phone: 33827509
 Fax: 040 - 23815633
 Guntur, Kalahasti branches
 Website: www.apppcb.ap.nic.in

REGD. POST WITH ACK. DUE
CONSSENT ORDER FOR ESTABLISHMENT

Order No. 50/PCB/CFE/RO-NZB/HO/2010 /822 Dt. 12.10.2010

Subj: PCB - CFE - M/s. Singareni Collieries Co. Ltd., Ramakrishnapur Open cast Project (RKP OCP Phase-1), Mandamarri area, Near Doraganipally (V), Mancherial (M), Adilabad District - Consent for Establishment of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref: 1) Public Hearing conducted on 22-10-2009 at Near Doraganipally (V), Mancherial (M), Adilabad District.
 2) Environmental Clearance dt. 16.3.2010 issued by MOEF, GOI.
 3) Industry's application received on 12.7.2010
 4) R.O's inspection report dt. 25.8.2010
 5) CFE Committee meeting held on 21.9.2010

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for Ramakrishnapur Open cast coal mining Project (RKP OCP Phase-1) to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 209.78 Crores.

Sl. No.	Line of activity	Capacity
1	Coal from open cast mining	2.50 million TPA with a peak production of 3.4 million TPA


2. As per the application, the above activity is to be located at Mandamarri area, Near Doraganipally (V), Mancherial (M), Adilabad District in an area of 637.52 Ha. The mining is open cast by mechanized method involving shovel dumper.

3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional office, Nizamabad, A.P. Pollution Control Board on 17.7.2010 and found that the site is surrounded by

North : RK-IA & RF
 South : Srirampur to Mandamarri road
 East : Open lands
 West : Open lands & Srirampur to Mandamarri road

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your activity Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to the activity as mentioned at para (1) only.**

Annexure-XII**Consent for Operation**

	<p align="center">TELANGANA STATE POLLUTION CONTROL BOARD Paryavarana Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad – 500018</p> <p align="right">Ph: 040-23887500 Fax: 040- 23815631 Website: tspcb.cgg.gov.in</p>
---	---

CONSENT & AUTHORISATION ORDER**Consent Order No :210522811648****Date:25.02.2021**

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof and Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof).

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 (hereinafter referred to as 'the Acts') and the rules and orders made thereunder to

**M/s. SCCL, Ramakrishnapur Open Cast Project (RKP OCP Phase –1),
Mandamarri Area, Near Doragaripally (V),
Mancherial (M),
Adilabad District.
E:Mail Id: env_mmr@scclmines.com**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i. Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	Excess Mine discharge	1622	Treatment in settling ponds. The supernatant shall be utilized for dust suppression, vehicle washings, plantations & domestic purpose. The rest of the supernatant shall be discharged into nearby irrigation tanks.
2.	Vehicle Washings	64	After treatment, the treated water shall be reused for dust suppression and cleaning purpose.
2.	Domestic	19	Septic tank followed by soak pit.
TOTAL		1705 KLD	

This order is subject to the provisions of the Acts and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A and B enclosed to this order.

PUBLIC LIABILITY INSURANCE ORDER COPY

पॉलिसी अनुसूची/ Policy Schedule-Public Liability Insurance Act			
पॉलिसी संख्या / Policy Number: 550200492510000035	व्यवसाय स्रोत/ Business Source: 550200		
जारीकर्ता कार्यालय/ Issuing Office कार्यालय कोड/ Office Code: 550200 कार्यालय पता/ Office Address: HYDERABAD BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082. राज्य कोड/ State Code: 36 , Telangana जीएसटीएन/ GSTIN: 36AAACN9967E6ZZ संपर्क संख्या/ Contact Number: 40 23401398 मोबाइल संख्या / Mobile Number: 0	वितरण चैनल विवरण/ Sales Channel Details कोड/ Code: 550200 नाम/ Name: Hyderabad Division II संपर्क संख्या/ Contact Number:		
		Customer Care Toll Free Number: 1800 345 0330 email: customer.support@nic.co.in	

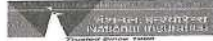
ग्राहक का नाम/ Customer Name: MS THE SINGARENI COLLIERIES CO LTD	ग्राहक आईडी/ Customer ID: 9510115064	पैन/ PAN: *****3F
पता/ Address: CORPORATE FINANCE & ACCOUNTS DEPARTMENT, PO. KOTHAGUDEM COLLIERIES, BHADRACHALAM ROAD RLY STN(S C RLY), BHADRADRI KOTHAGUDEM DISTRICT, TELANGANA, शहर/ City: KOTHAGUDEM, जिला/ District: KHAMMAM, राज्य/ State: TELANGANA, पिन/ PIN: 507101. सैल/ Cell: *****11	फोन/ Phone: *****11	ई-मेल/ E-Mail: *****rp@sclmines.com

पॉलिसी प्रभावी समय बंद को Policy Effective from 00:00 hours, on 30/04/2025 की मध्य रात्रि तक प्रभावी/ to midnight of 29/04/2026 .			
प्रीमियम / Premium	₹ 48,981.88	कवर नोट संख्या तथा तिथि/ Cover Note Number and Date	NA
सीजीएसटी/ CGST	₹ 4,408.00	प्रस्ताव संख्या और तिथि / Proposal Number and Date	8800240506182484 दिनांक/ Dt. 03/03/2025
एसजीएसटी/यूटीजीएसटी SGST/UTGST	₹ 4,408.00		
आईजीएसटी/ GST	₹ 0.00		
कम: जीएसटी, टीडीएस / Less: GST TDS	₹ 0.00		
वसूली योग्य स्टाम्प शुल्क / Recoverable Stamp Duty	₹ 0.00	रसीद संख्या और तिथि/ Receipt Number and Date	550200812510000273 दिनांक/ Dt. 29/04/2025
कुल राशि/ Total Amount*	₹ 1,06,781.00	पिछली पॉलिसी संख्या तथा समाप्ति तिथि/ Previous Policy Number and Expiry Date	550200492410000034 and Dt.29/04/2025
(रुपए /Rupees One Lakh Six Thousand Seven Hundred Eighty One केवल/Only.)			
* पर्यावरण राहत कोष / Environment Relief Fund: ₹ 48,982.12			

Insurance Details:	
Policy Effective from 00:00 hours, on 30/04/2025 to midnight of 29/04/2026	
PLI act Premium	3,63,356.20
Service tax	0.00
Recoverable stamp duty	0.00
ERF premium	3,63,356.20
Total amount	7,26,712.40

Retroactive date:	30/04/2023
Description of risk	PLI ACT POLICY -HAZAROUDS SUBSTANCES HANDLED & GROUP SUCH AS EXPLOSIVES, OIL, LUBRICANTS, GASES, TIMBER AND OTHER HAZARDOUS MATERIAL.
Paid up capital/Market Value of Asset/stock:	1,00,00,000.00
Liability:Any one accident(AOA):	5,00,00,000.00
Any one year(AOY):	15,00,00,000.00

RKPOCP HYMR Report from October-2024 to March-2025

पॉलिसी अनुसूची/ Policy Schedule-Public Liability Insurance Act			
पॉलिसी संख्या / Policy Number: 550200492510000035		व्यवसाय स्रोत/ Business Source: 550200	
जारीकर्ता कार्यालय/Issuing Office कार्यालय कोड/ Office Code: 550200 कार्यालय पता/ Office Address: HYDERABAD BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082. राज्य कोड/State Code: 36 , Telangana जीएसटीएन/GSTIN: 36AAACN9967E6ZZ संपर्क संख्या/Contact Number: 40 23401398 मोबाइल संख्या /Mobile Number: 0		वितरण चैनल विवरण/ Sales Channel Details कोड/ Code: 550200 नाम/ Name: Hyderabad Division II संपर्क संख्या/Contact Number: Customer Care Toll Free Number: 1800 345 0330 email:customer.support@nic.co.in	
Ratio of AOA:AOY:		1:3	
Sum Insured:		5,00,00,000.00	
Annual turn over:		3,54,25,20,00,000.00	
Clauses		As per Annexure.I	
टिप्पणियां/ Remarks: PUBLIC LIABILITY INSURANCE (ACT) POLICY VARIOUS TRANSPORT & STORAGE LOCATIONS OF SCCL (ALL AREAS) LIKE : KOTHAGUDEM, YELLANDU, MANUGURU, RAMAGUNDAM -I, RG-II, RG-III, BHOOPALPALLI, BELLAMPALLI, MANDAMARRI, SRIRAMPUR & CORPORATE , TELANGANA STATE. NUMBER OF WORKMEN EMPLOYEES :40762 ESTIMATED ANNUAL TURNOVER PROPOSED : RS.35425.20 CRORES PREVIOUS YEAR TURNOVER : RS.31800.73 CRORES AOA: 5 CRORES AOY : 15 CRORES (1:3) जिसकी गवाही में 02/May/2025 को उपरोक्त उल्लिखित कार्यालय पते पर अधोहस्ताक्षरी को विधिवत अधिकृत किया जा रहा है उसके हाथ निर्धारित किए जाएं। यह अनुसूची, संलग्न पॉलिसी, खण्ड, पृष्ठांकन और पॉलिसी शर्तों, जो कंपनी वेबसाइट https://nationalinsurance.nic.co.in पर उपलब्ध है, को एक अनुबंध के रूप में एक साथ पढ़ा जाए तथा कोई भी शर्त या अभिव्यक्ति जिसके लिए यह विशिष्ट अर्थ पॉलिसी या अनुसूची के किसी भी हिस्से में संलग्न किया गया हो, एक ही अर्थ वहन करेगा चाहे जहाँ भी उल्लिखित हो। यह आश्वासन दिया जाता है कि प्रीमियम चेक की अस्वीकृति के मामले में, यह दस्तावेज स्वतः आरंभ से ही निरस्त मानी जाएगी। /IN WITNESS WHEREOF, the undersigned being duly authorized hereunto set his/ her hand at the office address mentioned above, this 02/May/2025.This schedule, the attached policy, the clauses, the endorsements and policy wordings as available in the website https://nationalinsurance.nic.co.in shall be read together as one contract and any word or expression to which the specific meaning has been attached in any part of this policy or of the schedule shall bear the same meaning wherever it may appear. It is warranted that IN CASE OF DISHONOUR OF THE PREMIUM CHEQUE, THIS DOCUMENT STANDS AUTOMATICALLY CANCELLED 'AB-INITIO' इन्श्योरेंसईंडियालिमिटेड ओम्बुड्समैन का विवरण/Ombudsman Details: Office of the Insurance Ombudsman,6-2-46, 1st floor, Moin Court, Lane Opp. Hyundai Showroom, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 23312122 / 23376991/ 23376599 / 23328709/23325325 Email: bimalokpal.hyderabad @ciains.co.in.			
इन्श्योरेंसईंडियालिमिटेड ओम्बुड्समैन का विवरण/Ombudsman Details: Office of the Insurance Ombudsman,6-2-46, 1st floor, Moin Court, Lane Opp. Hyundai Showroom, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 23312122 / 23376991/ 23376599 / 23328709/23325325 Email: bimalokpal.hyderabad @ciains.co.in.		स्टाम्प ड्यूटी Stamp Duty: (₹ 0.25)	
		कृते नेशनल इन्श्योरेंस कंपनी लिमिटेड/ For and on behalf of National Insurance Company Limited अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory	

RKPOCP HYMR Report from October-2024 to March-2025

टैक्स इनवॉयस/TAX INVOICE

इनवॉयस क्र./Invoice Serial No: 30502L5PE0000035	इनवॉयस तिथि/Invoice Date: 02/05/2025							
आपूर्तिकर्ता का विवरण/Details of Supplier: नेशनल इन्श्योरेंस कंपनी लिमिटेड/National Insurance Company Limited., HYDERABAD BUSINESS OFFICE II CSR Plaza,D No. 6-3-347/9/4,,2nd Floor,Dwarakapuri Colony,Punjagutta, - 500082 राज्य/State : 36 , Telangana जीएसटीआएन नंबर/ GSTIN No : 36AAACN9967E6ZZ								
प्राप्तकर्ता का विवरण/Details Of Receiver : MS THE SINGARENI COLLIERIES CO LTD पता/Address : CORPORATE FINANCE & ACCOUNTS DEPARTMENT, PO. KOTHAGUDEM COLLIERIES, BHADRACHALAM ROAD RLY STN(S C RLY), BHADRADRI KOTHAGUDEM DISTRICT, TELANGANA शहर/City : KOTHAGUDEM, ज़िला/District: KHAMMAM, राज्य/State: TELANGANA, पिन/PIN: 507101, आपूर्ति का स्थान/Place Of Supply State : Telangana राज्य कोड/State Code : 36 जीएसटीआरसी नंबर/GSTIN No : 36AAACT8873F1Z1 यूआरएन नं./UIN No : NA								
सेक कोड/SAC Code	सेवा का विवरण/Description of Service	कुल/Total(₹)	छूट/Disco unt	टैक्स योग्य/मूल्य/Taxable Value(₹)	सीजीएसटी की दर/CGST	एसजीएसटी/यूटीजीएसटी/SGST/UTGST	आईजीएसटी/IGST	Kerala Flood Cess
997139	Other non-life insurance services (excluding reinsurance services)	48,982	0%	48,982	9%	4,408	9%	0
TOTAL		48,982		48,982		4,408		0
कुल इनवॉयस मूल्य (अंकों में)Total Invoice Value (In figures) : ₹ 1,06,781								
कुल इनवॉयस मूल्य (शब्दों में)Total Invoice Value (In words) : रूपए/Rupees One Lakh Six Thousand Seven Hundred Eighty One केवल/Only.								
रिवर्स चार्ज के अधीन टैक्स की राशि/ Amount of Tax Subject to Reverse Charge : No								

E.&O.E

कृते नेशनल इन्श्योरेंस कंपनी लिमिटेड/
For and on behalf of National Insurance Company Limited

अधिकृत हस्ताक्षरकर्ता/ Authorized Signatory



RKPOCP HYMR Report from October-2024 to March-2025

Annexure-XIV

Surface water quality monitoring data

Surface Water Sampling Locations

Sl. No.	Sampling code	Date of Sampling		Sampling Location	Latitude	Longitude
		1 st Quarter	2 nd Quarter			
1	SW-1	26.09.2024	30.12.2024	Tank near Doragaripalli Village	N 18°53'55.9"	E 79°29'13.4"
2	SW-2	26.09.2024	30.12.2024	Tank near Amaravadi	N 18°55'04.1"	E 79°28'38.4"

I.No	Parameters	Unit	Test Method	CPCB Water Quality Criteria					RESULT			
				Class A	Class B	Class C	Class D	Class E	SW-1 Tank near Doragaripalli Village		SW-2 Tank near Amaravadi	
									1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1	pH	-	4500-H ⁺ B	6.5-8.5	6.5-8.5	6.0–9.0	6.5-8.5	6.0-8.5	7.4	7.7	7.6	7.7
2	Electrical Conductivity	µmhos/cm	2510-B	-	-	-	-	2250 µmhos/cm	1090	1765	1198	1635
3	Dissolved Oxygen (DO)	mg/L	4500-O.C	6 mg/l or more	5 mg/l or more	4 mg/l or more	4 mg/l or more	-	5.7	5.2	5.5	5.3
4	Bio chemical Oxygen Demand (3 days 27° C)	mg/L	IS: 3025	2 mg/l or less	3 mg/l or less	3 mg/l or less	-	-	2.8	2.8	3.0	2.9
5	Total Coliforms	MPN/100mL	9221B	50 or less	500 or less	5000 or less	-	-	240	350	280	280
6	Free Ammonia (as N)	mg/L	4500-NH ₃ -F	-	-	-	1.2 mg/L or less	-	BDL	BDL	BDL	BDL
7	Boron as B	mg/L	3120-B	-	-	-	-	Less than 2 mg/L	0.08	0.08	0.11	0.11
8	SAR	-	-	-	-	-	-	Less than 26	0.63	1.17	1.53	1.74

RKPOCP HYMR Report from October-2024 to March-2025

Physico-Chemical Characteristics of Surface Water at Selected Locations in the Study Area

S. No	Parameters	Unit	Test Method	SW-1 Tank near Doragaripalli Village		SW-2 Tank near Amaravadi	
				1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
1.	Colour	Hazen	2120. B	10	10	5	10
2.	Odour	TON	2150. B	No odour observed	No odour observed	No odour observed	No odour observed
3.	Temperature	°C	2550. B	26.1	25.8	25.7	25.8
4.	Turbidity	NTU	2130. B	5.2	2.16	4.6	3.23
5.	Total Dissolved Solids at 180° C	mg/L	2540.C	656	1073	720	984
6.	Total Suspended Solids at 105° C	mg/L	2540. D	12	21	16	18
7.	Chemical Oxygen Demand	mg/L	5220. D	24	44	14	36
8.	Calcium as Ca	mg/L	3500-Ca.B	100	124	110	152
9.	Magnesium as Mg	mg/L	3500-Mg.B	59	90	41	59
10.	Sodium as Na	mg/L	3500-Na.B	32	106	74	100
11.	Potassium as K	mg/L	3500-K.B	3.9	8.5	6.1	10.2
12.	Chlorides as Cl ⁻	mg/L	4500-Cl ⁻ .B	50	238	166	242
13.	Sulphates as SO ₄ ²⁻	mg/L	4500-SO ₄ ²⁻ .E	172	235	203	133
14.	Fluoride as F ⁻	mg/L	4500-F ⁻ .C	0.27	0.77	0.26	0.65
15.	Nitrates as NO ₃	mg/L	4500-NO ₃ ⁻ .B	10	2.9	4.6	7.3
16.	Nitrites as NO ₂	mg/L	4500-NO ₂ ⁻ .B	BDL	BDL	BDL	BDL

RKPOCP HYMR Report from October-2024 to March-2025

S. No	Parameters	Unit	Test Method	SW-1 Tank near Doragaripalli Village		SW-2 Tank near Amaravadi	
				1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
17.	Total Phosphates	mg/L	4500-P-D	BDL	BDL	BDL	BDL
18.	Ammonical Nitrogen as NH ₃ -N	mg/L	4500-NH ₃ -C	BDL	BDL	BDL	BDL
19.	Phenolic compounds as C ₆ H ₅ OH	mg/L	5530-D	BDL	BDL	BDL	BDL
20.	Oil & Grease	mg/L	5520. B	<1	<1	<1	<1
21.	Carbonates as CO ₃	mg/L	2320. B	Nil	Nil	Nil	Nil
22.	Bi-carbonates as HCO ₃	mg/L	2320. B	365	430	175	450
23.	Fecal Coliforms	MPN/100mL	9221 E	49	140	70	46
24.	Zinc as Zn	mg/L	3120. B	0.17	0.15	0.09	0.09
25.	Iron as Fe	mg/L	3120. B	0.64	0.37	0.52	0.48
26.	Arsenic as As	mg/L	3120. B	BDL	BDL	BDL	BDL
27.	Lead as Pb	mg/L	3120. B	BDL	BDL	BDL	BDL
28.	Cadmium as Cd	mg/L	3120. B	BDL	BDL	BDL	BDL
29.	Total Chromium as Cr	mg/L	3120. B	BDL	BDL	BDL	BDL
30.	Nickel as Ni	mg/L	3120. B	BDL	BDL	BDL	BDL
31.	Copper as Cu	mg/L	3120-B	BDL	BDL	BDL	BDL
32.	Selenium as Se	mg/L	3120-B	BDL	BDL	BDL	BDL