



Singareni Collieries Company Limited
(A Govt. Company)
RAMAGUNDAM AREA-I

TEL: 08728-244112

Ref: RGM/ENV/31B/ 177-

Date: 29.11.2021.

To
The Director,
Ministry of Environment, Forest and Climate change,
Regional Office (South Eastern Zone),
1st & 2nd Floor, HEPC Building, No.34,
Cathedral Garden Road, Nungambakkam,
Chennai – 600034.

Dear Sir,

Sub: Submission of Half Yearly Environmental Monitoring Report of Cluster of Gavarikhani No.1&3 inclines, Godavarikhani No. 2&2A inclines and Godavarikhani no.5 incline of M/s S.C.Co.Ltd., for the period April 2021 to September 2021 – Reg. Ref: F.No.23-78/2018-IA-III(V), Dated.13.11.2020.

With reference to the subject cited above, please find herewith the half yearly environmental monitoring report along with soft copy for the period April 2021 to September 2021 in respect of Cluster of Godavarikhani No.1&3 inclines, Godavarikhani No. 2&2A inclines and Godavarikhani no.5 incline of Singareni Collieries Company Ltd.

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

Thanking you,

Yours faithfully,


General Manager
Ramagundam Area -I

End: Hard copy and Soft Copy
Cc: Environmental Engineer,
T.S.Pollution Control Board,
Near ZP High School,
NTPC Temporary Township
Jyothinagar - 505215.
Peddapalli Dist, TS.



SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
RAMAGUNDAM-1 AREA

PART-1
HYMR OF CLUSTER OF GODAVARIKHANI NO.1&3 INCLINES, GODAVARIKHANI NO. 2&2A
INCLINES AND GODAVARIKHANI NO.5 INCLINE
FOR THE PERIOD April 2021 to September 2021

A. SALIENT FEATURES OF THE PROJECT:

1	Name of the Project	:	Cluster of Godavarikhani No.1&3 inclines, Godavarikhani No. 2&2A inclines and Godavarikhani no.5 incline
2	Organization	:	THE SINGARENI COLLIERIES COMPANY LIMITED
3	Coalfield	:	Godavari Valley Coal Field
4	Type of Mine	:	Under Ground
5	Technology	:	Semi Mechanization (LHD's & SDL's)
6	Environmental Clearance	:	
	A Letter No & date	:	F.No.23-78/2018-IA-III(V), Dated.13.11.2020.
	B Sanction capacity	:	1.734 MTPA
	C Mine take area	:	1356.85 ha
	D Date of Public Hearing	:	28.11.2019
7	Location of the Project	:	
	A Village	:	Jangaon, Sundilla, Musthyala & Jallaram,
	B Tehasil	:	Ramagundam
	C District	:	Peddapalli
	D State	:	Telangana State ,
	E Latitude	:	GDK No.1&3 Incline- N18 ⁰ 45'24" to 18 ⁰ 46'53". GDK No.2&2A Incline-N18 ⁰ 44'42" to 18 ⁰ 45'42". GDK No.5 Incline-N 18 ⁰ 43'38" to 18 ⁰ 45'19".
	F Longitude	:	GDK No.1&3 Incline-E 79 ⁰ 30' 25" to 79 ⁰ 32' 29". GDK No.2&2A Incline- E 79 ⁰ 31'15" to 79 ⁰ 32'38". GDK No.5 Incline- E 79 ⁰ 31'19" to 79 ⁰ 33'14".
	G Topo Sheet	:	56 N/9 & 56 N/10
	H Nearest railway station	:	Ramagundam
	I Nearest Airport	:	Hyderabad
	J Nearest town	:	Godavarikhani
8	Address for Correspondence	:	
	A Name	:	V.Srinath
	B Designation	:	Agent
	C Address	:	Agent office (1 group mines) Godavari Khani (Post), Ramagundam Mandal, Peddapalli Dist., Telangana State,
	D Pin Code	:	505209
	F E-mail ID	:	agt_gdk1n2_rg1@scclmines.com

	G	Telephone No.	:	08728-244304			
	H	Fax No.	:	-			
9	Life of the Project		:	GDK No. 1&3	GDK No.2&2A	GDK No.5	
	A	Date of Opening	:	15.02.1959	08.12.1959	09.01.1961	
	All the mine in this cluster are operating mines since 1959, 1959 & 1961 respectively with 1993-94 base level production , However the EC was obtained for this cluster mines as per S.O. 804(E), dt 14.03.2017 on 13.11.2021.						
				GDK No. 1&3	GDK No.2&2A	GDK No.5	
	B	Total Life of the project as per EMP	:	58	14	35	
	C	Balance life (01.04.2021)	:	56	12	-	
10	Seams		:				
	A	Total Seams Present	:	5	5	-	
	B	Seams being worked	:	2	3	-	
11	Depth		:				
	A	Minimum Depth (m)	:	25	30	-	
	B	Maximum Depth (m)	:	380	490	-	
	C	Present working depth (m)	:	220	200	-	
12	Reserves(MT)		:				
	A	Total Geological Reserves	:	154.66	99.26	151.64	
	B	Total Extractable Reserves	:	23.928	21.36	40.22	
	C	Reserves already Extracted	:	20.604	16.10	23.73	
	D	Balance Reserves	:	3.324	5.26	16.49	
	E	Coal production during last six months in Lakh Tonnes	:	0.87	1.40	0	
13	Land Requirement		:	Total Project area:1356.85 ha			
				GDK No. 1&3	GDK No.2&2A	GDK No.5	
	A	Total Requirement (Mine Take Area)	:	541.66	282.76	532.43	
	B	Forestland Involved	:	Nil	Nil	Nil	
	C	Non-forestland	:	541.66	282.76	532.43	
	D	Land acquired so far (Surface rights)	:	195.54	201.97	445.89	
14	Statutory Clearances		:				
	A	Ground Water Clearance	:	Vide Lr. No: 128/SCCL/2019, dt.22.02.2020.			
	B	Consent for Establishment	:	Order No. 02/TSPCB/CFE/PDPL/RO-RGM/HO/2021, Dated.17.04.2021.			
	C	Consent for Operation	:	Consent Order No. 210523059666, Dated 02.07.2021, Validity up to 31.03.2026.			
	D	Forest Clearance	:	No Forest Land involved			
	E	Mining Lease	:	South Godavari Valid up to 31.12.2034			

B. COMPLIANCE STATUS OF EC CONDITIONS AS ON 30.09.2021

STATUS OF IMPLEMENTATION OF MOEF ENVIRONMENTAL CLEARANCE CONDITIONS

Condition wise compliance status of EC with respect to the EC Letter No.: 23-78/2018-IA-III(V), Dated:13.11.2020 granted for the mine.

Specific Conditions:

- EAC recommended for an amount of Rs 277.1 Lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years.

Being Complied: The compliance status is given below:

i) Remediation Plan:

S.No	Component Remediation	Description	Location	Status
1.	Air Environment	Laying of 10' CC roads of 500m length in 2 Villages	1. Musthyala 2. Janagam	Complied Laying of CC roads at Janagama and musthyala villages work has been completed
2.	Noise environment & ecology	Plantation	1. Sundilla 2. Janagam 3. Periphery area immediately outside mine boundary area	Being Complied Plantation has been carried out in nearby villages as follows 1. Musthyala(1067), 2. Dubbapalli(701), 3. Sundilla villages (1957) and plantation in Janagam village is being carried out.
3.	Water environment	Construction & annual maintenance of RWH structure in nearby villages	1. Sundilla 2. Gunjapadugu 3. Musthyala 4. Nagaram 5. Ranapur	Being complied As of now Fifteen(15) RWH pits of 10.125M ³ capacities were constructed in Gunjapadugu (8) & Nagaram (7). Another Eleven(11) locations are identified for construction of RWHS in Sundilla, Musthyala, & Ranapur villages and will be completed as per scheduled.

ii) Natural Resource augmentation plan

S.No	Component	Description	Location	Status
1	Natural Resource Augmentation Plan	Providing 1 kv Solar street Lighting (including panels, inverters, wiring structure, connectors, junction boxes etc.) in nearby villages as per requirement of village Panchayats	Jangoan Sundilla Mustyala Peddampeta Godavarikhani	Partly complied Tender has been awarded to M/s. Solarbull Energy Ltd for installation of 210 solar street Lights and 60% of work is completed Remaining work is in Progress

iii) Community Resource Augmentation Plan:

S.NO	Component	Description	Location	Status												
1	Community Resource Augmentation Plan	Construction of Toilets and renovation of school building in nearby villages.	Sundilla Bestapalli Siripuram Chandanapuram Malkapur Chillapalli Dubhapalli Jangoan	Being complied. 1. Construction of Toilets at ZP school Jangoan village has completed. 2. Renovation of Government school Building at Sundilla village is in progress and will be completed shortly. 3. Contracts were awarded to complete the remaining work as per schedule.												
S.NO	Condition			Compliance Status												
2	Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 277.1 lakhs			Will be Complied. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan (RP&NCRAP) of Rs. 277.1 lakhs will be spent as per the scheduled. So far Rs. 42 Lakhs has been spent on RP & NCRAP.												
3	Project proponent shall be required to submit a bank guarantee of an amount of Rs. 277.1 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.			Complied: Submitted bank guarantee (No.0416820BG0000187, dated 08.06.2020) for Rs.277 Lakhs for Remediation plan and Natural and Community Resource Augmentation plan to TSPCB vide letter Lr No. CRP/ENV/A/438/408, dated 13.06.2020.												
4	Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.			Will be Complied. EC was granted to project on 13.11.2020 and remediation plan will be completed within 3 years as stipulated in EC.												
5	Fund allocation for Corporate Environment Responsibility (CER) of Rs. 218.00 lakhs to be implemented as per the details submitted in the Ministry.			Being Complied. Fund allocated for Corporate Environment Responsibility (CER) of Rs. 218.00 lakhs will be implemented within 3 years as stipulated. The details of works are undertaken as per the schedule submitted to the ministry and the present status are given below: <table border="1"> <thead> <tr> <th>S.No</th> <th>Activity</th> <th>Present Status</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Construction of drains in Ganganagar (R&R colony).</td> <td>Tendering is in process and construction of drains will be completed as per schedule.</td> </tr> <tr> <td>2</td> <td>Installation of ROs (250 to 500 LPH capacity) in Janagoan, sundilla Musthyala & Jallaram village</td> <td>Installation of RO plant in sundilla village completed and in other villages is under process.</td> </tr> <tr> <td>3</td> <td>CC road construction in Janagoan and</td> <td>Construction of CC roads in Janagoan and sundilla village</td> </tr> </tbody> </table>	S.No	Activity	Present Status	1.	Construction of drains in Ganganagar (R&R colony).	Tendering is in process and construction of drains will be completed as per schedule.	2	Installation of ROs (250 to 500 LPH capacity) in Janagoan, sundilla Musthyala & Jallaram village	Installation of RO plant in sundilla village completed and in other villages is under process.	3	CC road construction in Janagoan and	Construction of CC roads in Janagoan and sundilla village
S.No	Activity	Present Status														
1.	Construction of drains in Ganganagar (R&R colony).	Tendering is in process and construction of drains will be completed as per schedule.														
2	Installation of ROs (250 to 500 LPH capacity) in Janagoan, sundilla Musthyala & Jallaram village	Installation of RO plant in sundilla village completed and in other villages is under process.														
3	CC road construction in Janagoan and	Construction of CC roads in Janagoan and sundilla village														

			sundilla village	completed.
		4	Construction of community hall and library in Musthyala village .	Tendering is in process and construction of community hall and library will be completed as per schedule.
		5	Establishing open GYM in Janagoan and Sundilla village	Preparation work for establishing open GYM is in progress and will be completed as per schedule.
		6	Construction of 2 Nos public Toilets, 1 room and 1 shed at 1KP centre in Janagoan and sundilla villages.	Tendering is in process works will be completed as per schedule.
		7	Construction of compound wall around the temple, 4Nos rooms and toilets and Bheemeshwaralay am temple in Janagoan.	Tender of construction awarded to M/s.Kamal construction Vide Ltr No.RG1/CVL/D/442 /ET-07/2156 and work will start soon.
		8	Construction of Pushkar ghat and 10 No.s bathrooms for pilgrims near river Godavari	Tendering is in process works will be completed as per schedule.
6	Ground water clearance conditions shall be implemented in toto.	Being complied All the ground water clearance conditions are being implemented.		
7	All statutory precautions shall be taken as per the DGMS permission against the danger of inundation	Being complied Implementing all statutory permission stipulated for the danger of inundation by DGMS.		
8	Approved wildlife conservation plan shall be implemented in toto	Complied An amount of Rs. 335.68 Lakhs has been allotted for Wild life conservation plan and mitigation measures prepared for scheduled 1 species (Pava Cristatus & varamus bengalensis) existing in the Buffer Zone of the project by the state forest department vide letter RC.No 3505/2020/wl-1, dated 08.4.2021.		
9	The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Others	Agreed to abide with the judgement of Hon'ble Supreme court dated the 2 nd August 2017 in Writ petition (Civil) No. 114 of 2014 in the matter of Common cause versus union of india and others.		

10	State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors	Agreed to abide with the judgement of Honble Supreme court dated the 2 nd August 2017 in Writ petition (Civil) No. 114 of 2014 in the matter of Common cause versus union of india and others.
11	Automatic mist type sprinkling system shall be installed at crusher house and in pit belt conveyor to control production of dust. During transportation of coal from Mine to CHP shall be done by covered trucks with tarpaulin. Adequate number of water sprinklers shall be provided to control dust along coal transport roads	Complied. Automatic mist type sprinkling system installed at crusher house and on pit belt conveyor to control dust production transportation of coal from mines to CHP is being carried out with tarpaulin covered trucks. Water sprinkling arrangements are provided to control dust all along the coal transport roads.
12	Effective dust suppression system shall be adopted along the railway siding area and between villages. Fabric wind barrier shall be established along the Railway Siding and between villages	Complied: Provided dust suppression system along the railway siding area and between villages. Adequate green belt has been developed. In addition, green cloth wind barrier established along the railway siding and between villages.
13	STP of 17 MLD capacity with a cost of Rs 29.04 Crores shall be constructed in the township and completed by October,2021	Being complied. STP construction is in progress.
14	3D ground water modelling studies are being carried out for assessing the impact due to mining and comprehensive report shall be submitted to Ministry and its concerned Regional office within a year.	Being complied 3D ground water modeling for assessing the impact due to mining is in progress and will be submitted shortly.
15	Solid waste management as per SWM rules 2016 shall be complied within their colony.	Being complied Solid waste generated from the colonies are segregated and sent to concerned municipal authority for disposal.
16	Energy conservation measures for the existing colony and structures and compliance of ECBC norms shall be adhered to for the future colonies and structures	Being complied. Energy conservation measures are being taken for the existing colony by replacing LED bulbs. Installation of solar lights and solar water heater in the colony to improve the energy conservation measures will be taken up.
17	Green belt is to be developed in and around mines and vacant lands of surrounding villages with 24.00 lakhs saplings and free distribution of saplings to surrounding villagers shall be done	Being complied. About 515.00 ha (12,87,500 samplings of native species) are covered under green belt. Plantation programme has been carried out in the nearby villages and about 3725 sampling are planted in Musthyala, Janagama, Dubbapalli & Sundilla villages. About 92,000 saplings were distributed for the year 2020-21.
18	Quality of Mine discharge water which will be used for drinking purpose shall be checked and should meet the prescribed drinking water	Complied Quality of Mine discharged water is being monitored regularly by third party recognized

	standards.	laboratory EPTRI, Hyderabad. Facility of RO plants are installed in each mine for drinking purpose.
19	Periodical health check-up shall be conducted to monitor the impact of heavy metals present in core zone & buffer zone air quality and also to prepare an action plan to reduce heavy metals concentration and also report to be submitted to concerned regional office of MoEF&CC.	Being complied Periodical health check-up of workmen are being carried out regularly. Monitoring of the heavy metals present in core zone & buffer zone air quality are being carried out and heavy metals concentration found is within the standards
20	Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.	Complied: All the necessary clearances/ permissions under various Acts and rules has been obtained i.e CFE, CFO,GWC and DGMS permissions etc.
21	The mining lease holder shall, after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc	Will be complied: After ceasing mining operations, re-grassing in the mining area and any other area which may have been disturbed due to mining activities will be taken up to restore the land to condition which is fit for growth of fodder, flora and fauna etc.,

Standard conditions:**(a) Statutory compliance**

S.No.	Condition	Compliance Status
i	The project proponent shall obtain forest clearance under the provisions of forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	N/A No forest land is involved in the project.
ii	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	N/A No wild life sanctuary is present with in the 10 km of the project.
iii	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).	Complied An amount of Rs.335.68 lakhs has been allocated for the implementation of wild life conservation plan and mitigation measures prepared for scheduled –I species (pavo cristatus & varanus bengalensis) existing in the buffer zone of the project by the state forest department vide letter no. 3505/2020/WL-1, dated 08.04.2021.
iv	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	Complied CFE obtained from TSPCB, Vide Order No.02/TSPCB/CFE/PDPL/RO-RGM/HO/2021, Dated.17.04.2021. Complied CFO obtained from TSPCB: Consent Order No. 210523059666, Dated 02.07.2021, Validity up to 31.03.2026.
v	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	Complied Ground water withdrawal approval obtained from Telangana ground water department vide letter no. 128/SCCL/2019, dated 22.02.2020
vi	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	Complied Solid wastes generated due to mining activity are disposed of with authorized vendor, i.e ETP sludge and used oil.

(b) Air quality monitoring and preservation

S.No.	Condition	Compliance Status
i	<p>Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.</p>	<p>Complied Monitoring of ambient air quality is being carried out third party laboratory (EPTRI, Hyd). Twelve ambient air quality monitoring stations are established in the core zone as well as in the buffer zones i.e.</p> <p>Locations Core Zones 1) GDK-1&3 incline, 2) GDK-2&2A incline, 3)GDK-5 incline, 4) GDK-1 CSP, 5)MVTC (GDK 5 Premises), 6)18 MW Power House.</p> <p>Buffer Zone: 1) Power House Colony, 2) Sector-I Township, 3)Janagaon Village, 4) New township Near GDK-I Fan House 5) Mustyala Village, 6) Sundilla Village 7)Area Hospital RG-I, 8) Sector –II Township.</p> <p>Installation of one online continuous ambient air quality monitoring station is under progress in consultation with TSPCB. Monitored parameters are within prescribed limits and monitoring reports are being submitted to Ministry.</p>
ii	<p>The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>	<p>Complied Monitoring of ambient air quality is being carried out third party laboratory. Twelve ambient air quality monitoring stations are established in the core zone as well as in the buffer zones. Monitored parameters are within prescribed limits and monitoring reports are being submitted to Ministry.</p>
iii	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM10/PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Complied Transportation of coal from mine pit to the RG - I CHP is being carried out with tarpaulin covered trucks. Regular water spraying is being carried out to suppress the dust on the transport roads, mist spraying/rain gun etc are provided at loading, unloading and transfer points to control Air pollution in the CSP. The monitored parameters are within prescribed limits.</p>
iv	<p>The transportation of coal shall be carried</p>	<p>Complied</p>

	out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	The transportation of coal is being carried out as per the provisions and route envisaged in the approved Mining Plan/ environment monitoring plan.
v	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.	Complied All the vehicles engaged in mining and allied activities are checked during transportation for 'PUC' certificate.
vi	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	Complied Water spraying arrangements are provided at coal stock pile, crusher, and material transfer points. Belt conveyers are not covered in all areas. Drills are wet operated only.
vii	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environment friendly sustainable technology should be implemented for mitigating such parameters.	Complied Coal handling plant is provided with dust control measures like water spraying, mist spraying, jet spraying and surrounding premises also covered with green cloth to avoid the dust propagation. Photos enclosed in Annexure-VI (Photo No.1, 2,3, 4&5)

(c) Water quality monitoring and preservation

S.No.	Condition	Compliance Status
i	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.	Complied ETP is provided to treat workshop effluents. Quality of Effluents is within limits as per the report. The mine water is being filtered in slow sand filter beds. Photos enclosed in Annexure-VI (Photo No.6&7)
ii	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.II (M) dated 27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Being complied The monitoring data is being uploaded on the company's website and displayed at the project site at a suitable location.

iii	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	<p>Complied</p> <p>Regular monitoring of ground water levels and quality of the existing mines is by SCCL in 81 existing wells and 49 piezometers.</p> <p>The monitoring of ground water levels is being carried out four times a year in pre- monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons. Monitoring reports are being submitted to Ministry along with the half-yearly monitoring report</p> <p>Photo enclosed in Annexure-VI (Photo No.8)</p>
iv	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	<p>Complied</p> <p>Monitoring of water quality upstream and downstream of water bodies are being carried out once in three months by third party laboratory (EPTRI, Hyd). Monitoring reports are being submitted to Ministry along with the half yearly monitoring report.</p>
v	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources	<p>Being Complied</p> <p>Only mine water after treating in the in slow sand filter beds is being used for mining operations. Further about 100 No's of Rain water Harvesting structures constructed in various locations of Ramagundam area for augmenting ground water recharge.</p>
vi	Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the	<p>Not applicable to underground mines, However, drains are provided all along the mine boundary to prevent the rain water in to the mine</p>

	rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.	
vii	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).	Complied 100 No's of Rain Water Harvesting Structures constructed in various locations of Ramagundam region for augmenting ground water recharge. Treated mine sump water is being supplied to the nearby villages and colonies for domestic purpose and remaining water is discharged into nearby tanks for augmenting ground water recharge. Water quality is monitored at the discharging point by third party laboratory EPTRI, Hyd.
viii	Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP/STP needs to be provided.	Will be Complied ETP is provided to treat the workshop effluents. Quality of effluents is within limits. The mine water is being filtered in slow sand filter beds. Presently, soak pits are provided to treat the effluents generated from colony. STP of 17MLD capacity with a cost of Rs.29.04 Crores is under construction.
ix	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly.	Complied Mine sump water after siltation/ filtration is being utilized for dust suppression, plantation, and fire fighting etc., the drains on the surface are being regularly de-silted particularly after monsoon and maintained properly.
x	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Go! Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.	Complied: Surface drainage plan has been prepared and implemented. De-siltation of the drainage and settling tank is being done regularly in the mine lease area to ensure the free flow of water. No nallahs is diverted on surface area of the mines. Embankment of 3m above HFL of River Godavari provided at the entries of the mines to prevent danger of inrush of water in to mine area.

xi	The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.	Complied: As these are underground mines there will not be any effect on the riverine/riparian. However precautionary measures will be taken to ensure riverine/riparian ecosystem in and around the mine.
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(d) Noise and Vibration monitoring and prevention

S.No.	Condition	Compliance Status
i	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Complied Workers engaged in blasting and drilling operations are provided with personal protective equipments (PPE) like ear plugs / muffs. Awareness programmes for users are being carried out periodically. Ambient noise levels are monitored by third party laboratory. Monitored parameters are within prescribed limits.
ii	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.	Complied Delay detonators are being used in Underground mines to mitigate ground vibrations.
iii	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis	Complied Noise level survey is being conducted as per the DGMS guidelines. Ambient noise levels are monitored by third party laboratory regularly. Monitored parameters are within prescribed limits.

(e) Mining Plan

S.No.	Condition	Compliance Status
i	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Complied Mining will be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
ii	Mining shall be carried out as per the approved mining plan(including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by	Complied Mining is being carried out as per the approved mining plan(including Mine Closure Plan) abiding by mining laws

	Directorate General Mines Safety (DGMS).	related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS). Mine Plan and Mine closure plan were approved by MoC, Gol. for GDK 1&3 incline and GDK-2&2A incline Vide letter No.13016/2/2006CA-II, dated. 17.10.2014 and for GDK-5 incline Vide Ltr No.13016/6/2013-CA-II, Dated.25.11.2014.
iii	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	Not Applicable: No forest land is involved in the project
iv	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Complied: SCCL is installing Solar power plants in its command area and till now 109MW capacities are already synchronized and installation of plants of total 190.50 MW are in progress. Solar power plants of total of 30MW are already synchronized at RG area and total of 42 MW capacity are under progress. Further, SCCL also planned to commission 12KW Geo-thermal power plant in Manuguru area as per allocation made by MoC under S&T which is in progress.

(f) Land reclamation

S.No.	Condition	Compliance Status
i	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Will be complied Agreed to submit Digital Survey of entire lease hold area/core zone using satellite remote sensing survey within year to ministry.
ii	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.	Not applicable to underground mines.
iii	The entire excavated area, backfilling, external	Not applicable to underground

	OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/" post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EINEMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	mines.
iv	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.	Complied Bottom/fly ash is being used for stowing of the UG mine.
v	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.	Not applicable to underground mines.
vi	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	The grazing land involved in the core zone will not be disturbed due to mining operations to the extent possible if there is any shortage of grazing for the cattle , grazing land will be provided in the adjacent area of the GDK-11 Incline mine were plantation of about 500.00 ha is been done by SCCL. The directions of Hon'ble Supreme Court with regard to acquiring grazing land will be implemented.

(g) Green Belt

S.No.	Condition	Compliance Status
i	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/repm1ed in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	Complied Flora/fauna study conducted and is incorporated in EMP. As per the above study the impacts are negligible and there is no effect on wildlife migration due to this mining. Photos enclosed in Annexure-VI (Photo No.10&11)
ii	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.	Being complied Plantation is being carried as per the EMP and so far plantation of about 515 ha done. 3-tier plantation of width not less than 7.5m will be developed.

(h) Public hearing and Human health issues

S.No.	Condition	Compliance Status
i	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.	Complied Adequate illumination provided in all mine locations and is being monitored
ii	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	Complied At initial appointment of the person's the initial medical examination is being conducted. Periodical medical examinations being conducted as per provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the persons identified & undergone PME for every year.
iii	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	Complied All the department and outsourced employees working in core zone were provided with training & safety awareness. Necessary PPES are provided to mine workers.
iv	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan	Being complied Action plan budgetary provisions submitted during the PH is being implemented.

	submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	
v	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	Being complied All the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29 th October, 2014 are being implemented.

(i) Corporate Environment Responsibility

S.No.	Condition	Compliance Status
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Being complied An amount of Rs.218 Lakhs is allocated for CER activities. The implementation of CER activities is in progress.
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.	Being complied The Company has well laid down environment policy approved by the board of directors.
iii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied Corporate Environment cell headed by Sri. Kondaiah, GM(Env). Area level (RG1 area) headed by Sri.K.Anjaneya Prasad Area Environmental Officer. Mines Environmental Officers GDK-1&3 Sri.M.Abhilash GDK-2&2A- Sri.MD Salman.
iv	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept	Being complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company prepared and is duly approved by competent

	in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	authority. The year wise funds earmarked for environmental protection measures are being spent for environmental protection only.
v	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Being complied Self-environmental audit will be conducted annually. Every three years third party environmental audit will be carried out.

(j) Miscellaneous

S.No.	Condition	Compliance Status
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	Complied The Environmental clearance granted for this project was advertised in two local news papers i.e Namesthe Telangana (Telugu) and Hindu (English) on 27.11.2020 and EC was also displayed on the company website.
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied A copy of the Environmental Clearance letter was sent to <ol style="list-style-type: none"> 1) The Collector & District Magistrate, Peddapalli. 2) The General Manager, District Industries Centre, Peddapalli. 3) The Chief Executive Officer, Zilla Parishad Office, Peddapalli District. 4) Municipal Commissioner, Municipal Corporation Office, Ramagundam, Peddapalli District. 5) Tahasildar Office, Ramagundam, Peddapalli. 6) Tahasildar Office, Ramagiri Mandal. 7) Grampanchayat office, Sundilla of Ramagiri Mandal 8) Grampanchayat office, Musthyala of Ramagiri Mandal. 9) Grampanchayat office, Jallaram of Ramagiri Mandal. 10) GPPPPG office (a non government voluntary organization working for prevention & control of pollution and environment awareness in the area.).
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions,	Being Complied The status of compliance of the stipulated environment clearance conditions, including results of monitored data is being uploaded

	including results of monitored data on their website and update the same on half-yearly basis.	in the SCCL & TSPCB website and will be updated on half-yearly basis.
iv	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied The pollutant levels PM10, SO2, NOx (ambient levels) are being monitored by third party laboratory and the results are being displayed nearby office building.
v	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being complied Submitting half yearly compliance reports to regional office of MoEF&CC regularly.
vi	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II(M) dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area.	Being complied The mitigation measures are being taken for the impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area as per the OM No.Z-11013/5712014-IA.II(M) dated 29 th October, 2014.
vii	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being complied Submitting the environmental statement for each financial year in Form-V to TSPCB and also being uploaded in the company website.
viii	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Complied. Underground mines are already in operation, EC obtained under violation category.
ix	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Being complied Will Strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
x	The project proponent shall abide by all the commitments and recommendations made in the EIA,EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Being Complied Will abide by all the commitments and recommendations made in the EIA, EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
xi	No further expansion or modifications	Will be complied.

	in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	No, further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forests and climate change
xii	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986	Complied No false/fabricated data submitted, only factual data submitted
xiii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Complied All the conditions are being complied
xiv	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Complied All the conditions are being complied
xv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports	Complied All the conditions are being complied and the mine authorities will provide full cooperation to the officers of Regional Office regarding requisite data / information/monitoring reports
xvi	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules made their under and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Being complied All the conditions are being complied
5.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report as well as during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented by the EC in letter and spirit	Being complied Will abide by all the commitments and recommendations made in the EIA/EMP report as well as during presentation to the EAC. All the commitments made on the issues raised during public hearing will be implemented by the EC in letter and spirit.
6.	The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any	Complied Status of clearances/approvals 1) Ground Water clearance for the proposed capacity from State/Central Ground Water Board. Ground Water Clearance Vide Lr.No:128/SCCL/2019,dt.22.02.2020.

	further condition for environmental protection.	<p>2) CFE obtained from TSPCB, vide Order No.02/TSPCB/CFE/PDPL/RO-RGM/HO/2021, Dated.17.04.2021.</p> <p>3) CFO obtained from TSPCB: Consent Order No. 210523059666, Dated 02.07.2021, Validity up to 31.03.2026.</p>
7.	Any appeal against this Environment Clearance (EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	N/A
8.	The coal company/project proponent shall be liable to pay the compensation against illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.	N/A
9.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	<p>Complied</p> <p>Obtained mining and consent for establishment & operation and ground water withdrawal permission from State Government.</p>
10.	This Environment Clearance (EC) shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.	<p>Complied</p> <p>The judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements will be complied with.</p>

Periodic progress report regarding environmental protection measures till 30.09.2021 is enclosed as **Part - II**.