



THE SINGARENI COLLIERIES COMPANY LIMITED
(A Govt. Company)
ENVIRONMENT DEPARTMENT
RAMAGUNDAM AREA - II

Phone: 08728 – 250255
FAX: 08728-250110
PIN: 505211

Ref. No. RG2/ENV/03/2024/148

Date: 11.11.2024.

To
The Director,
Ministry of Environment, Forests &
Climate Change (MoEF & CC),
Integrated Regional Office,
Aranya Bhavan, 3rd Floor,
Saifabad, Hyderabad – 500 004

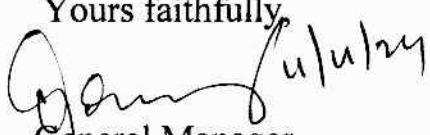
Dear Sir,

Sub: Half-yearly (From APRIL-2024 to SEPTEMBER-2024)
Environmental Monitoring report of Ramagundam Opencast - III
Expansion Phase-II Coal Mining Project, RG-II Area of S.C.Co.Ltd
for the period ending on 30.09.2024–Reg.
Ref: MoEF Lr.C.No. J-11015/43/2013-IA.II (M), Dt.16/12/2022

With reference to the above, please find enclosed herewith the Half-yearly
Environmental Monitoring report for the period ending 30.09.2024 in respect of
Ramagundam Opencast - III Expansion Phase-II Coal Mining Project, RG-II Area
of S.C.Co.Ltd.

Thanking You,



Yours faithfully,

General Manager,
Ramagundam Area-II
General Manager
Ramagundam Area-II

Copy to:
The Environmental Engineer,
T.S.Pollution Control Board,
Jyothinagar, Ramagundam, Dist: Peddapalli
State: Telangana - 505 215
GM (Env) Corporate office, Kgm



**THE SINGARENI COLLIERIES COMPANY LIMITED
(A Government Company)
RAMAGUNDAM - II AREA**

**Half Yearly Compliance Report of Ramagundam Opencast - III Expansion
Phase-II Coal Mining Project for the period ending SEPTEMBER 2024.**

PART – I

A. SALIENT FEATURES OF THE PROJECT :

- | | |
|----------------------------|--|
| 1. Name of the Project | : Ramagundam Opencast - III Expansion
: Phase-II Coal Mining Project. |
| 2. Organization | : Singareni Collieries Company Limited |
| 3. Coalfield | : Godavari Valley Coal Field |
| 4. Type of Mine | : Opencast |
| 5. Technology | : Shovel-Dumper combination and
: Dragline. |
| 6. Environmental Clearance | |
| A. Letter No and date | : J-11015/43/2013-IA.II (M), Dt.16/12/2022 |
| B. Sanction Capacity | : from 8.16 (Peak 8.16) MTPA to
9.52MTPA (Peak) |
| C. Mining Lease Area. | : 2070.10 Ha |
| D. Date of Public Hearing | : 06.08.2014 |
| 7. Location of the Project | |
| A. Village | : Venkatrao pally Jallaram |
| B. Tehasil / Mandal | : Ramagiri |
| C. District | : Peddapalli |
| D. State | : Telangana |
| E. Latitude | : North 18 ⁰ 40' 57" to 18 ⁰ 42' 46" |
| F. Longitude | : East 79 ⁰ 29' 58" to 79 ⁰ 34' 15" |
| G. Topo Sheet | : 56 N/10 |
| H. Nearest railway station | : Ramagundam (11 KM) |
| I. Nearest Airport | : Rajiv Gandhi International airport,
: Hyderabad |

	Godavarikhani	
I. Nearest town	:	
8. Address for Correspondence		
A. Name	:	S.MADHUSUDAN
B. Designation	:	Addl. General Manager
C. Address	:	Project Officer, RG OC-III Project, 8 Incline Colony, Peddapalli(Dist.) Telangana - 505 211
9. Depth		
A. Minimum Depth	:	25 m
B. Maximum Depth	:	280 m
C. Present working depth	:	170 m
10 Reserves		
A. Total Geological Reserves	:	223.94 MT
B. Total Extractable Reserves	:	106.58 MT
C. Reserves already Extracted	:	50.07 MT
D. Balance Reserves	:	56.51 MT
E. Coal production during last 6 months	:	3.67 MT
11 Over Burden		
A. Total OB	:	841.32 Mm ³
B. OB extracted since inception	:	296.91Mm ³
C. OB removed in last 6 months	:	13.57Mm ³
D. Stripping Ratio	:	5.929M ³ /T
12 Top Soil		
A. Total Topsoil	:	3.75 Mm ³
B. Topsoil extracted since inception	:	3.07 Mm ³
C. Topsoil removed in last six months	:	0.31Mm ³
13 Land Requirement		
A. Total Requirement	:	2070.10 Ha.
B. Forest land Involved	:	Nil
C. Non-forestland	:	Nil
14 Activity wise Land Requirement		
	As per EMP	Actual
A. Quarry Area	: 1229.41 Ha	941.80Ha
B. External OB Dumps	: 474.50 Ha	393.39 Ha
C. Infrastructures	: 71.19 Ha	44.64 Ha
D. Others	: 295.00 Ha	248.76 Ha
E. Total	: 2070.10 Ha	1628.59 Ha

15 Statutory Clearances

- A. Mining Plan Approval : 1. GOI- MOC- No.13016/2/2006-CA-II dated :8.4.2008
2. Mining Plan (I Revision) and Mine Closure Plan of RG OC-III Expansion Project was approved vide Lr. No.13016/3/2009-CA-II, dated.19.11.2014.
3. Mining Plan (Including Mine Closure Plan) 2nd revision/modification) for RG OC-III Expansion Mine was approved videLr.No.38011/12/2017-PCA, Dated17.062019.
- B. Ground Water Clearance : Lr.No: 128/SCCL/2019/491 dt.25.06.2022
- C. Consent for Establishment : 03/TSPCB/CFE/RO-RGM/HO/2023 dated 27.04.2023.
- D. Consent for Operation : CFO order No-20234688097 Dated – 19.10.2023.
- E. Forest Clearance : Not Applicable as forest land not involved in the project.
- F. Mining Lease : The project forms part of South Godavari Mining Lease and South Godavari Extension Mining Lease.
1. 1162.76 ha is covered in 3rd renewal South Godavari Mining Lease ML granted vide G.O.M's No. 2, dated 12/01/2015 Valid up to 31/12/2034
 2. 644.60 ha is covered in South Godavari Additional Mining Lease ML granted vide G.O.M's No. 201, dated 31/07/2008 and Valid up to 16/09/2025
 3. Lol granted by the State Government for 262.74 ha of non coal bearing area vide Lr.No.1133/PR (A1)/2018, dated 27.11.2018

Half Yearly Compliance Report**2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

Proposal Name	Ramagundam Opencast-III Expansion-II Coal Mine Project		
Name of Entity / Corporate Office	The Singareni Collieries Company Limited		
Village(s)	N/A		
District	PEDDAPALLI		
Proposal No.	IA/TG/CMIN/120211/2019	Category	Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	TELANGANA	Entity's PAN	*****8873F
MoEF File No.	J-11015/43/2013-IA.II(M), EC22A042TG168806	Entity name as per PAN	THE SINGARENI COLLIERIES COMPANY LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	HYMR of Ramagundam Opencast-III Expansion-II Coal Mine Project.
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office The Singareni Collieries Company Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	1655.23	1655.23
Revenue Land	0	0
Forest	0	0
Others	414.87	414.87
Total	2070.1	2070.1

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	coal	Million Tons per Annum (MTPA)	31/03/2026	9.52	9.5	9.52

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	i) PP shall comply all the conditions stipulated by Ministry's EC vide its letter no. J-11015/43/2013 IA.II (M) dated 11th May, 2015 and letter no. J-11015/43/2014-IA. (M) dated 2nd March, 2021 and complete the non-compliance and an Action taken report in this regard to be submitted to IRO.
<p>PPs Submission: Complied</p> <p>Project Proponent Complied all conditions of previous EC No. J-11015/43/2013 IA.II (M) dated 11th May, 2015 and letter no. J-11015/43/2014-IA. (M) Dated 2nd March, 2021. HYMR of both the EC conditions were submitted to MoEF CC, vide letter No.RG2/ENV/03/2024/146, dt. 11.11.2024. and vide letter No.RG2/ENV/03/2024/147, dt. 11.11.2024 respectively.</p>		Date: 16/11/2024
2	AIR QUALITY MONITORING AND PRESERVATION	ii) PP to install continuous ambient air quality monitoring stations at suitable locations preferably village side and with consultation of SPCB. The real time data so generated shall be uploaded on company website. In addition, data should also be displayed digitally and entry and exit gate of mine lease area for public display.
<p>PPs Submission: Partially Complied</p> <p>Continuous Ambient Air Quality Monitoring Station as prescribed in the statute was established in the core zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Further, CAAQMS in buffer zone is in the process of procurement and will be installed soon. The CAAQMS station is connected to TSPCB website for real time uploading of air quality data and the half yearly data also being uploaded on company website. Location of the stations was decided in consultation with the State Pollution Control Board by considering meteorological data, topographical features and environmentally and ecologically sensitive targets. Ambient air quality parameters such as PM10, PM2.5, SO2 and NOx are being monitored at regular intervals. The data is being displayed digitally at the office of Project Office for public display.</p>		Date: 29/11/2024
3	AIR QUALITY MONITORING AND PRESERVATION	iii) PP shall install fixed fog cannon (mist sprayer) all along the haul road till CHP, Railway siding and OB Dump area and accordingly sufficient number of fog cannons with 40 mts jet length shall be installed. It should be ensured that air pollution level confirm to the standards prescribed by the MOEF&CC/CPCB.
<p>PPs Submission: Partially Complied</p> <p>Five numbers of Fog canons (mist sprayer) are installed at surface feeder to reduce the air pollution. In addition to fixed water sprinklers line and 25 numbers of mobile water sprinklers are provided to control the dust emitted from the movement of HEMM.</p>		Date: 29/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	iv) PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction..
<p>PPs Submission: Complied</p> <p>The industry already made arrangement for Wind breaker/shield at CHP with green shaded net for reducing the dust propagation in upwind direction.</p>		Date: 29/11/2024
5	Corporate Environmental Responsibility	v) PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction..
<p>PPs Submission: Agreed to Comply</p> <p>Agreed upon. About 5.4 Ha land identified for developing an ECO park for medicinal and herbal species. Request note vide Ltr.No. RGII/CVL/11A/744. Dt.16.04.24 is sanctioned and tender also approved for fencing of the ECO park, construction of path ways and lying of water pipe lines.etc. After completion of said work we will assure to develop the medicinal and herbal species within one</p>		Date: 29/11/2024

		year.	
6	ENERGY PRESERVATION MEASURES	vi) PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also involve in maintenance. PP to identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year and submit its report to IRO.	
<p>PPs Submission: Complied</p> <p>Solar lights are installed at all junctions along road used for transportation of coal to avoid accidents at night, in addition to electric street lights. Moreover, PP identified the rural areas and about 60 numbers of solar street lights are installed in nearby villages where there is no source of electricity along the street.</p>			Date: 29/11/2024
7	Human Health Environment	vii) PP to take proper care of health of villagers and a 24X7 helpline call facility should be provided to such area and also to nearby villages for assisting any medical aid and ambulance facility.	
<p>PPs Submission: Complied</p> <p>Employees of the company and contractor side their families including villagers are given proper health care. Free Health camps are being conducted at regular intervals in buffer zone villages. Extending ambulance facility to nearby villages in case of emergency. 24X7 helpline provision is available.</p>			Date: 29/11/2024
8	LAND RECLAMATION	viii) Top soil should be stored separately at marked area and necessary vegetation shall be maintained to avoid any entrainment of dust.	
<p>PPs Submission: Being Complied</p> <p>Top soil stored separately at marked stock yard area and vegetation done on the top soil dump to avoid entrainment of dust.</p>			Date: 29/11/2024
9	LAND RECLAMATION	ix) Progressive backfilling of mine and progressive reclamation of OB dump shall be done.	
<p>PPs Submission: Being Complied</p> <p>Progressive backfilling of mine and progressive reclamation of OB dump is being done as per the approved EMP. So far plantation was taken up in 459.05 ha in project area (OB dump: 221.05 ha, internal dump: 58.85 ha and Safety zone etc: 238.00 ha).Back filling is in progress in 506.36 ha of de-coaled void area</p>			Date: 29/11/2024
10	GREENBELT	x) Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles.	
<p>PPs Submission: Being Complied</p> <p>The active Overburden (OB) Dump will not be left barren or open. It will be covered with temporary grass to minimize airborne dust particles and prevent air pollution. Also stabilize the soil and reduce dust emissions</p>			Date: 29/11/2024
11	GREENBELT	xi) The Green Belt shall be developed all along the boundary of approach road/railway siding and permanent green sheet barricade shall be placed with fixed type mist spray to suppress dust (not less than 4).	
<p>PPs Submission: Being Complied</p> <p>Vertical greenery system, green belt, etc., are developed all along the railway siding and coal corridor road for dust suppression. 4 numbers of Permanent green sheeting barricade. also arranged with mist spray to suppress dust. So far plantation was taken up in 459.05 ha in project area. About 1, 50,000 nos. of native trees with broad leaves were planted along the periphery of</p>			Date: 29/11/2024

habitation/villages to prevent the effect of air pollution.		
12	Statutory compliance	xii) Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.
<p>PPs Submission: Complied</p> <p>Blasting permission was obtained from DGMS for controlled blasting operations near villages vide Ltr NoH1/RGOC-III/perm/2011/1707, dt 03.08.2011. Accordingly, controlled blasting technique is being practiced using NONELs. Measures like optimum charge per delay, sufficient free-face, sequence of blasting, proper stemming, optimum drilling and blasting pattern, etc., are being taken to reduce the ground vibrations. Ground vibrations are being monitored with Minimate instrument and records are being maintained as per DGMS guidelines. The blast vibrations monitoring data reveals that the blast vibrations are within the stipulated limits and also exploring of deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages is in under study. There is no damage caused to habitation/structures. A rock breaker of suitable capacity in the project is being used to break big boulders so as to prevent secondary blasting thereby fly rock and noise pollution.</p>		Date: 29/11/2024
13	WATER QUALITY MONITORING AND PRESERVATION	xiii) PP shall carry out monthly water monitoring quality of river bodies located within 5 Km radius and conduct Bio-assay test half yearly and further monitoring Ground water level.
<p>PPs Submission: Complied</p> <p>There are no river bodies located within 5 Km radius. However, Monitoring of water quality upstream and downstream of water bodies and also ground water are being carried out once in three months and record of monitoring data is being maintained. Regular monitoring of ground water levels is being carried out in and around the mine lease area by establishing a network of existing wells (8 nos.) Data thus collected is being submitted to the MoEF and CC and to the State Pollution Control Board along with half-yearly monitoring reports. Latest HYMR report was submitted vide Lr. No. RG2/ENV/03/2024/59. dt.24.05.2024. The latest ground water monitoring report sent vide ref no RG-II/ENV/32/2024/136 dated 07.10.2024.</p>		Date: 29/11/2024
14	Human Health Environment	xiv) PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
<p>PPs Submission: Complied</p> <p>An epidemiological study was conducted in villages near the project area, covering a total of 8,891 residents across 5 villages. Medical examinations were carried out, and appropriate treatments and medicines were provided where needed.</p>		Date: 29/11/2024
15	AIR QUALITY MONITORING AND PRESERVATION	xv) All approach roads to mine and all other roads which are in regular use should be black topped. The maintenance of road shall be done by PP in collaboration with State Government.
<p>PPs Submission: Complied</p> <p>All CHP and mine approaching roads and all other roads are black topped and maintenance of the roads condition is being ensured by SCCL.</p>		Date: 29/11/2024
16	Corporate Environmental Responsibility	xvi) Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
<p>PPs Submission: Complied</p> <p>Skill development training programmes are being arranged regularly to the nearby un employed youth. The details of programme conducted so far are as follows: S.No. Description (training)</p>		Date: 29/11/2024

Members 1 Computer classes 55 2 Yoga course 25 3 Tailoring course 61 4 Fashion Designing 52 5 Total 193		
17	Noise Monitoring & Prevention	xvii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.
PPs Submission: Being Complied All necessary measures are being taken such as orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours for not to disturb the biological clock of the villages. Noise levels are being monitored at regular intervals and data reveals that Noise level are within the permissible limits.		Date: 29/11/2024
18	MISCELLANEOUS	xviii) Hon'ble Supreme Court in a Writ Petition(s) Civil No.114/2014, Common Cause vs. Union of India & Ors vide its judgment dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing 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. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEFCC.
PPs Submission: Complied The condition is noted and assured to abide the condition		Date: 29/11/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	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).
PPs Submission: Complied Wild life Conservation Plan and mitigation measures is prepared for Scheduled I species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr RC.No.3505/2020/WL 1, Dated.08.04.2021 for an amount of Rs.335.68 Lakhs. An amount of Rs.164.34 Lakhs was deposited in favour of Wild life conservation plan, Peddapalli. An amount of Rs.171.34 Lakhs was deposited in favour of Forest Bio-Diversity conservation society of Telangana Mancherial vide ltr no RG1/EST/K/WLS/246, Dt: 02.05.2023.		Date: 29/11/2024
2	WATER QUALITY MONITORING AND	vi) Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine

	PRESERVATION	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 accumulated 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 utilized 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 rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.
<p>PPs Submission: Being Complied</p> <p>Catch and/or garland drains for a length of 4.54 km is made around the quarry and around the dump. Four numbers of siltation ponds, two numbers of size 50m x 20m x 2m and Two numbers of size 30m x 10m x 2m were constructed around the mine workings, coal yard and OB dumps to prevent run off of water and flow of sediments directly into the nearby tanks and water bodies. The drains/ponds so constructed are being regularly de-silted particularly before onset of monsoon and maintained properly. Further, dump material is being properly consolidated/ compacted and accumulation of water over dumps is avoided by providing adequate channels for flow of silt into the drains. Sump is provided with sufficient capacity for adequate retention period of seepage water to allow proper settling of silt material. The water so collected in the sump is being utilized for dust suppression and green belt development and other industrial use. Retaining wall is constructed at the toe of the OB dump within the mine to check run-off and siltation based on the rainfall data. Plantation is being taken up with native-mixed species between toe of the dump and adjacent field/habitation/water bodies.</p>		Date: 29/11/2024
3	WATER QUALITY MONITORING AND PRESERVATION	vii) Adequate ground water 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).
<p>PPs Submission: Complied</p> <p>Four numbers of siltation ponds, two numbers of size 50m x 20m x 2m and Two numbers of size 30m x 10m x 2m were constructed around the mine workings were constructed for augmentation of ground water. So far 120 nos. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources at Ramagundam region. The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge. The project authorities will meet water requirement of nearby village(s) after due treatment conforming to specific requirement (standards) if any such case arises.</p>		Date: 29/11/2024
4	WATER QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied</p> <p>Two ETPs are also provided, one at CHP and another at Base Workshop. Waste water generated from the project, is being properly collected and treated so as to conform to the standards prescribed under the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. A 2 MLD capacity STP is provided in SCCL s colony for treating colony effluent.</p>		Date: 29/11/2024
5	WATER QUALITY MONITORING AND PRESERVATION	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 desilted

		particularly after monsoon and maintained properly.
<p>PPs Submission: Being Complied The seepage water pumped out of the project after siltation is being utilized for dust suppression, plantation and fire fighting etc. The drains are being regularly de- silted particularly after monsoon and maintained properly.</p>		Date: 29/11/2024
6	WATER QUALITY MONITORING AND PRESERVATION	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/GoI Authority. The construction of embankment to prevent any drainage 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.
<p>PPs Submission: Being Complied The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of water bodies in the area has been prepared and being implemented. There are no diversions of natural water courses involved in the project. The construction of embankment to prevent any danger against inrush of surface water into the mine is done as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.</p>		Date: 29/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Complied Not applicable as there is no river within 5 km.</p>		Date: 29/11/2024
8	Noise Monitoring & Prevention	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 on 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 program for users to be conducted. Progress in usage of such accessories to be monitored.
<p>PPs Submission: Complied Adequate measures are being 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 are being provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness program for users is being conducted. Progress in usage of such accessories is being monitored.</p>		Date: 29/11/2024
9	Noise Monitoring & Prevention	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. 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.

<p>PPs Submission: Being Complied Controlled blasting technique with NONELS is being carried out in order to mitigate ground vibrations, fly rock, noise and air blast etc., as per the guidelines prescribed by the DGMS. Noise level survey is being carried out as a part of PPEM at the locations in the Core Zone and Buffer zones of the project area. In addition, noise level survey is being carried out as per the DGMS circulars to assess noise exposure of the workmen at vulnerable points in the mine premises and records are being maintained.</p>		Date: 29/11/2024
10	MINING PLAN	i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
<p>PPs Submission: Agreed to Comply Mining operations are being carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.</p>		Date: 29/11/2024
11	MINING PLAN	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 Directorate General Mines Safety (DGMS).
<p>PPs Submission: Agreed to Comply Mining operations are being 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 Directorate General Mines Safety (DGMS).</p>		Date: 29/11/2024
12	MINING PLAN	iii) No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.
<p>PPs Submission: Complied Not applicable as no forest land involved in the project.</p>		Date: 29/11/2024
<p>PPs Submission: Complied Not applicable as no forest land involved in the project.</p>		Date: 29/11/2024
13	MINING PLAN	iv) Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
<p>PPs Submission: Being Complied M/s SCCL so far 234.5 MW capacity Solar plants are synchronized and another 65.5 MW plant is under installation and exploring the possibility of tapping the solar energy for their energy requirements. In Ramagundam region 50 MW Solar power plants is synchronized and another 22 MW capacity is under installation. Recently 10.5 MW commissioned at kothagudem Area and In stage 2, it is proposed to take up another 232.5 MW solar plants in different area of SCCL mines.</p>		Date: 29/11/2024
14	LAND RECLAMATION	i) Digital Survey of entire lease hold area/core 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).
<p>PPs Submission: Complied Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is carried out during 2022 in 1:50,000 scale for monitoring land use pattern and report is submitted to MoEFandCC/ Regional Office (RO) at Chennai vide Ref.No. RGM/ENV/03/2023/49, dated 24.05.2023.</p>		Date: 29/11/2024

15	LAND RECLAMATION	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.
<p>PPs Submission: Complied</p> <p>All the recommendations will be complied at final closure stage. At final closure stage, the final mine void depth will be as per the approved Mine Closure Plan, and in case it exceeds 40m, adequate engineering interventions will be provided for sustenance of aquatic life therein. The remaining area will 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.</p>		Date: 29/11/2024
16	LAND RECLAMATION	iii) The entire excavated area, backfilling, external 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 EIA/EMP submitted to this Ministry. Progressive compliance status vis-à-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
<p>PPs Submission: Complied</p> <p>Progressive reclamation of the degraded land in the project is being taken up in the project as per the phase-wise restoration and reclamation program envisaged in the approved EIA/EMP and shown in the Table below. Accordingly, plantation has been done on the stabilized portion of external overburden dump and vacant lands in the project area. So far, OB is backfilled in 537.47 ha. Of de-coaled void area. Total progressive plantation up to Sep-2024 is 459.05 ha. Plantation is being done as per the progress of external dump and stabilization of backfilled area. Progressive compliance status vis-a-vis the post mining land use pattern is being submitted to the MoEF and CC/RO along with HYMR. The latest HYMR report was submitted vide Lr. Ref No.RG2/ENV/03/2024/59, dt.24.05.2024 for the period ending march 2024.</p>		Date: 29/11/2024
17	LAND RECLAMATION	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.
<p>PPs Submission: Complied</p> <p>The condition is noted and assured to abide the condition Fly ash generated from NTPC, As per S.O.5481(E), dated 31.12.2021 issued by the MoEFandCC, GoI, a committee headed by Chairperson of CPCB, representatives of MoEFandCC, MoC, MoP, DGMS and IBM was constituted to identify mines (Both underground and opencast) for fly ash utilization. The committee in its meeting opined that, in running mines, fly ash filling is not possible due to safety issues as per various studies conducted by CIL and advised to fill ash in the abandoned mine voids. Guidelines in this regard are awaited. All the directions/guidelines stipulated by the Committee with regard to utilization of fly ash will be implemented. Further, MoEF and CC also advised SCCL to conducted a scientific study through CSIR- Central Institute of Mining and Fuel Research (CIMFR), Dhanbad in one of its opencast mines i.e., Manu guru Opencast Project to ascertain the stability of overburden dumps by mixing of fly ash. CSIR-CIMFR submitted its final draft report on 27.02.2024. As per the report, it is not advisable and feasible to use 25 percentage of Ash and 75 percentage of Overburden in external as well as in internal dumps of MNG OCP both under present and post mining scenario.</p>		Date: 29/11/2024

Further, CSIR-CIMFR will submit its final report within a short period. Based on the report findings, SCCL will request MoEF and CC for exempting the EC condition regarding usage of fly ash in dumps and back filling operations in the running mines of SCCL. However, it is to submit that the fly ash is being utilized in the underground mines of SCCL for stowing of goaved out areas. Till now, around 115.43 Lakh Cu.m of ash has been utilized for this purpose.		
18	LAND RECLAMATION	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 stores 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 stabilized 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.
<p>PPs Submission: Complied</p> <p>The topsoil is being temporarily stored at earmarked site and is being used for land reclamation and plantation purposes OB dump is being stabilized with native grass species like Hamato grass to prevent erosion and surface run off. The overburden dump is being vegetated with native flora species. The excavated area is being backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas will continue until the vegetation becomes self-sustaining. So far plantation is taken up in 459.05 ha of project area (OB Dump: 166.20 ha, Internal dump: 54.85 ha and safety zone etc: 238.00 ha). Data is being submitted along with half yearly reports to the ministry/regional office of MoEFandCC on six-monthly basis.</p>		Date: 29/11/2024
19	LAND RECLAMATION	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.
<p>PPs Submission: Complied</p> <p>The project proponent was not disturbed the 108.16 Ha grazing land near old peddampet village and mangal palli at Vakilpalli road.</p>		Date: 29/11/2024
20	GREENBELT	i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported 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.
<p>PPs Submission: Complied</p> <p>All precautionary measures are being taken during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported 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. Wild life Conservation Plan and mitigation measures is prepared for Scheduled 1 species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr RC.No.3505/2020/WL 1, Dated.08.04.2021 for an amount of Rs.335.68 Lakhs and will be implemented. An amount of Rs.164.34 Lakhs was deposited in favour of Wild life conservation plan, Peddapalli An amount of Rs.171.34 lakhs was deposited in favour of Forest Bio-Diversity conservation society of Telangana Mancherial vide ltr no RG1/EST/K/WLS/246, Dt: 02.05.2023.</p>		Date: 29/11/2024
21	GREENBELT	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.
<p>PPs Submission: Being Complied Greenbelt consisting of 3 tier plantation of width not less than 7.5 m is developed all along the mine lease area. The green belt comprising a mix of native species (endemic species) developed all along the major approach/coal transportation roads. So far plantation was taken up in 459.05 ha of project area. Plantation is being done as per approved EMP.</p>		Date: 29/11/2024
22	PUBLIC HEARING	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.
<p>PPs Submission: Being Complied Adequate illumination is being ensured in all mine locations as per DGMS standards and monitored weekly. The report on the same is submitted to this ministry and its RO on six-monthly basis.</p>		Date: 29/11/2024
23	Human Health Environment	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.
<p>PPs Submission: Being Complied Occupational health survey for initial and periodical medical examination of the personnel engaged in the project is being done at regular intervals and the records are being maintained accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20 percentage of the personnel identified from workforce engaged in active mining operations are being subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.</p>		Date: 29/11/2024
24	Human Health Environment	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.
<p>PPs Submission: Being Complied Persons including outsourced employees being deployed in open atmosphere in mining operations are being provided with dust masks and adequate training and information on safety and health aspects is being imparted.</p>		Date: 29/11/2024
25	PUBLIC HEARING	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 submitted with budgetary provisions during the public hearing. Land ousters shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
<p>PPs Submission: Being Complied Public hearing is exempted under 7(ii) of EIA notification, 2006 and no RandR involved in the expansion project</p>		Date: 29/11/2024
26	PUBLIC HEARING	v) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29th 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’.
<p>PPs Submission: Complied The mitigation measures provided in Ministry s OM.No.Z-11013/5712014-IA.II(M) dated 29th 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 are being complied.</p>		Date: 29/11/2024
27	Corporate Environmental Responsibility	i) The project proponent shall comply with the provisions contained in this Ministry’s OM vide F.No.22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
<p>PPs Submission: Complied The condition is not applicable.</p>		Date: 29/11/2024
28	Corporate Environmental Responsibility	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.
<p>PPs Submission: Being Complied The company is having a well laid down environmental policy duly approved by the Board of Directors. The environmental policy is containing 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 is having a defined system of reporting infringements/deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/or shareholders/stake holders.</p>		Date: 29/11/2024
29	Corporate Environmental Responsibility	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.
<p>PPs Submission: Being Complied A company level environment cell with qualified personnel headed by General Manager (Environment) who is directly reportable to the Chairman of the Company is established to monitor and guide in implementation of the environmental safeguards. 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. Apart from this, a unit level Environmental Management Committee with multi disciplinary team has been constituted under the chairmanship of SO to GM. The committee has been constituted with following members. 1. SO to General Manager Chairman 2. Project Officer Member 3. Area Engineer (EandM) Member 4. Area Civil Engineer Member 5. Area Forest Officer Member 6. Area Estates Officer Member 7. Project Manager Member 8. Project Engineer Member 9. Project Surveyor Member 10. Project Env. Officer Member 11. Area Env. Officer Secretary 12. Sr. Hydro Geologist Member 13. Area Survey Officer Member</p>		Date: 29/11/2024
30	Corporate Environmental Responsibility	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 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.
<p>PPs Submission: Being Complied An EAC committee at project level is established for compliance of EC/CFE/CFO/ GWC/FC etc and for implementing EMP. The funds earmarked for environmental protection measures are not being diverted for any other purpose. Year wise progress of implementation of environmental protection measures is being reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>		Date: 29/11/2024
31	Corporate Environmental Responsibility	v) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
<p>PPs Submission: Being Complied Self environmental audit is being done at area level by the committee on half yearly basis. Third party environmental audit was carried out by ICFRE during February, 2023 and the report is enclosed.</p>		Date: 29/11/2024
32	MISCELLANEOUS	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.
<p>PPs Submission: Complied The advertisement regarding grant of Environmental Clearance to this Project was published in two local news papers within seven days of grant of EC i.e. in news papers The Hans India (English) and Namaste Telangana (Telugu) on 20.12.2022. A copy of the Environmental clearance was also displayed in the SCCL s website permanently. A copy of the Environmental clearance was submitted to Telangana State Pollution Control Board.</p>		Date: 29/11/2024
33	Statutory compliance	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.
<p>PPs Submission: Complied There is no Forest land in the Mine lease hold Area. Condition is not applicable.</p>		Date: 29/11/2024
34	Statutory compliance	ii) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
<p>PPs Submission: Complied Condition is not applicable.</p>		Date: 29/11/2024
35	MISCELLANEOUS	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.
<p>PPs Submission: Complied This condition was complied immediately after receiving EC from MoEFandCC, New Delhi. The copies of the environmental clearance were submitted to heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government vide Lr. No. RG2/ENV/2A/330 dated 20.12.2022 for display the same for 30 days from the date of receipt.</p>		Date: 29/11/2024
36	MISCELLANEOUS	iii) The project proponent shall upload the status of compliance of

		the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
<p>PPs Submission: Being Complied The status of compliance of the stipulated environment clearance conditions, including results of monitored data are being uploaded on SCCL website and updating the same on half-yearly basis. Compliance status of EC conditions is being uploaded in the MoEFand CC portal once in every six months. Hard copy of the status of compliance of EC conditions is being submitted to the TSPCB office by register post once in every six months. Latest HYMR report was submitted vide Lr. No. RG2/ENV/03/2024/59 dt.24.05.2024. for the period ending March 2024.</p>		Date: 29/11/2024
37	MISCELLANEOUS	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.
<p>PPs Submission: Being Complied The criteria parameters like PM10, PM2.5, SO2, NOx (ambient levels) indicated for the projects are being monitored and displayed at the project site (PO Office) for disclosure to the public and monitored data is being uploading to the company website.</p>		Date: 29/11/2024
38	MISCELLANEOUS	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.
<p>PPs Submission: Being Complied Six-monthly reports on the status of the compliance of the stipulated environmental conditions are being submitted on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.</p>		Date: 29/11/2024
39	MISCELLANEOUS	vi) The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.11 (M) dated 29th 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'.
<p>PPs Submission: Being Complied The mitigation measures provided in this Ministry s OM No.Z-11013/5712014-IA.II (M) dated 29th 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 are being followed.</p>		Date: 29/11/2024
40	MISCELLANEOUS	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.
<p>PPs Submission: Being Complied The Environmental statement for each financial year ending 31st March 2024 in Form-V was submitted vide ref no RG-II/ENV/3B/2024/124 dated 19.09.2024 by the project authority to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, and also uploaded on the companies website along with the status of compliance of EC conditions.</p>		Date: 29/11/2024
41	MISCELLANEOUS	viii) The project authorities shall inform to the Regional Office of

		the MOEFCC regarding commencement of mining operations.
<p>PPs Submission: Complied As the mine is an operating opencast project and only production was enhanced from 8.16 MTPA to 9.52 MTPA and progress of mining operations has been communicated through half yearly reports. Vide letter no RG2/ENV/2022/22/332, Dt 20.12.2022. Project authorities informed to the regional office of the MoEFandCC Hyderabad regarding commencement of mining operations.</p>		<p>Date: 29/11/2024</p>
42	MISCELLANEOUS	ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
<p>PPs Submission: Complied Stipulations made by the State Pollution Control Board and the State Government are being adhered to.</p>		<p>Date: 29/11/2024</p>
43	MISCELLANEOUS	x) The project proponent shall abide by all the commitment and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
<p>PPs Submission: Being Complied All commitments and recommendations made in the EIA/EMP report and also during presentation to the EAC are being complied. Public hearing is exempted for expansion project</p>		<p>Date: 29/11/2024</p>
44	MISCELLANEOUS	xi) No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
<p>PPs Submission: Complied Any further expansion or modification will not be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.</p>		<p>Date: 29/11/2024</p>
45	MISCELLANEOUS	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.
<p>PPs Submission: Complied Actual data is being submitted.</p>		<p>Date: 29/11/2024</p>
46	MISCELLANEOUS	xiii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<p>PPs Submission: Complied The conditions stipulated in Environmental clearance letter are being implemented.</p>		<p>Date: 29/11/2024</p>
47	MISCELLANEOUS	xiv) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
<p>PPs Submission: Complied If any additional conditions are stipulated by the Ministry, same will be implemented.</p>		<p>Date: 29/11/2024</p>
48	MISCELLANEOUS	xv) The Regional Office or 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.

<p>PPs Submission: Complied Project authorities are extending full co-operation during the visits of the office(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.</p>		<p>Date: 29/11/2024</p>
49	MISCELLANEOUS	<p>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 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.</p>
<p>PPs Submission: Being Complied All the measures are being taken to avoid soil contamination, contamination of ground water and surface water and occupational and other diseases due to the mining operations. Public Liability Insurance has been obtained vide policy no. 550200492410000034 which is valid up to 29.04.2025.</p>		<p>Date: 29/11/2024</p>
50	MISCELLANEOUS	<p>5) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.</p>
<p>PPs Submission: Being Complied All commitments and recommendations made in the EIA / EMP report and also during presentation to the EAC are being complied. Public hearing is exempted for expansion project.</p>		<p>Date: 29/11/2024</p>
51	MISCELLANEOUS	<p>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 further condition for environmental protection.</p>
<p>PPs Submission: Being Complied The project is started after obtaining all necessary clearance /approvals only. Any further condition, if stipulated by the ministry or any other competent authority for environmental protection, will be complied.</p>		<p>Date: 29/11/2024</p>
52	MISCELLANEOUS	<p>7) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>
<p>PPs Submission: Being Complied No appeal against this environmental clearance lies with the National Green Tribunal.</p>		<p>Date: 29/11/2024</p>
53	MISCELLANEOUS	<p>8) The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'common Cause Vs Union of India & others.</p>
<p>PPs Submission: Being Complied The condition is noted and assured to abide the condition No illegal mining is done in this project.</p>		<p>Date: 29/11/2024</p>

54	MISCELLANEOUS	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.
PPs Submission: Complied Not applicable.		Date: 29/11/2024
55	MISCELLANEOUS	10) This environmental clearance shall not be operation till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
PPs Submission: Complied Not applicable.		Date: 29/11/2024
56	LAND RECLAMATION	The mining lease holders shall, after ceasing mining operations, under take 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.
PPs Submission: Complied Will be complied, at the end of mining operations, the mining area and other areas which were disturbed due to mining will be regress and restore to the land to a condition which is fit for growth of fodder, flora and founa etc..		Date: 29/11/2024
57	Statutory compliance	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.
PPs Submission: Complied CFE order no 03/TSPCB/CFE/RO- RGM/HO/2023 dated 27.04.2023. valid up to 27.04.2028 for 9.52 MTPA (peak) CFO order no 20234688097 dated 19.10.2023 valid up to 31.03.2026 for 9.52 MTPA (peak)		Date: 29/11/2024
58	Statutory compliance	v) The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
PPs Submission: Complied Ground water clearance was obtained vide letter no. 128/SCCL/2019/491, dated 25/06/2022 valid for 2 years. A renewal application was submitted on 24.04.2024, and the approval process is currently in its final stages.		Date: 29/11/2024
59	Statutory compliance	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.
PPs Submission: Being Complied Solid/ hazardous waste generated in the mines are being disposed in accordance to the Solid Waste Management Rules, 2016/Hazardous and Other Waste Management Rules, 2016. Hazardous wastes like used oil with barrels, waste oil with barrels, used transformer oil with barrels, scrapped batteries, iron scrap, copper cables, scrapped cap lamp accumulators, empty oil and grease drums are being handled and disposed off in accordance with the procedure laid down in HWM Rules, 2016. Used oil, spent oil, batteries and copper cables are being disposed off to the recyclers having valid registration from CPCB/TSPCB for recycling or recovery, whereas the empty oil and grease barrels are being detoxified prior to their disposal to outside agencies.		Date: 29/11/2024

60	AIR QUALITY MONITORING AND PRESERVATION	i) 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>PPs Submission: Being Complied Continuous Ambient Air Quality Monitoring Station (CAAQMS) as prescribed in the statute was established in the core zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Further, CAAQMS in buffer zone is in the process of procurement and will be installed soon. Location of the stations was decided in consultation with the State Pollution Control Board by considering meteorological data, topographical features and environmentally and ecologically sensitive targets. Ambient air quality parameters such as PM10, PM2.5, SO2 and NOx are being monitored at regular intervals. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc., are being carried out once in six months and monitoring data is being submitted along with half yearly reports to the ministry and its regional office of MoEF and CC.</p>		Date: 29/11/2024
61	AIR QUALITY MONITORING AND PRESERVATION	ii) 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>PPs Submission: Being Complied The Ambient Air Quality monitoring in the core zone is being 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 are being regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>		Date: 29/11/2024
62	AIR QUALITY MONITORING AND PRESERVATION	iii) Transportation of coal, to the extent permitted by road, shall be carried out by covered truck/conveyors. Effective control measure 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/PM 2.5) 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>PPs Submission: Being Complied Tarpaulin on coal transport lorries is being followed. All necessary mitigative measures such as regular water/mist sprinkling/mist spray/fixed pipe line spray, etc., are being taken to control air pollution at loading/unloading, and transfer points, etc. Fugitive dust emissions from all sources are being controlled. All mitigate measures are being taken to control dust and other fugitive emissions all along the haul roads. 80 KL capacity : 02 28 KL capacity :13 10 KL capacity : 01 20 KL capacity: 09 (phase I and II) Total (25 Numbers) Twenty five numbers of mobile water sprinklers are being deployed for sprinkling of water along haul roads, on dumps at loading and unloading areas etc</p>		Date: 29/11/2024
63	AIR QUALITY MONITORING AND PRESERVATION	iv) The transportation of coal shall be carried 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.
<p>PPs Submission: Agreed to Comply</p> <p>The transportation of coal is being carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Coal is being transported from working face to surface feeders by dumpers, from surface bunker to CHP by a series of belt conveyors. The coal is being transported to various customers by rail mode from CHP</p>		Date: 29/11/2024
64	AIR QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied</p> <p>Vehicular emissions are being kept under control and they are regularly monitored. The latest vehicular emissions test for HEMM was conducted during the period from 14.08.2024 to 24.08.2024. All the vehicles engaged in mining and allied activities are being operated after obtaining PUC certificate from the authorized pollution testing center</p>		Date: 29/11/2024
65	AIR QUALITY MONITORING AND PRESERVATION	vi) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provide 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.
<p>PPs Submission: Being Complied</p> <p>Coal stock pile/crusher/feeder and breaker material transfer points are provided with dust suppression system. Belt-conveyors will be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry was made to avoid air borne dust. All the drills are being wet operated.</p>		Date: 29/11/2024
66	AIR QUALITY MONITORING AND PRESERVATION	vii) Coal Handling Plant shall be operated with effective control measure w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
<p>PPs Submission: Being Complied</p> <p>Coal handling plant is being operated with effective control measures such as mist spray arrangements at transfer , loading and unloading points, along belt conveyor, fixed point water sprinkling, water sprinkling with mobile water sprinkler, mist spray machine etc. Environmental friendly sustainable technology is being implemented for mitigating such parameters such as mist spray, mist spray machines etc.</p>		Date: 29/11/2024
67	WATER QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied</p> <p>The effluent discharge (mine waste water, workshop effluent) are being 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. The monitoring data is being submitted to the ministry along with half yearly reports.</p>		Date: 29/11/2024
68	WATER QUALITY MONITORING AND PRESERVATION	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.11 (M) dated 27th May, 2009 issued by

		Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
<p>PPs Submission: Being Complied The monitoring data is being uploaded on the companies website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change is referred and being complied.</p>		<p>Date: 29/11/2024</p>
69	WATER QUALITY MONITORING AND PRESERVATION	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>PPs Submission: Being Complied Regular monitoring of ground water levels and quality is being carried out in and around the mine lease area by establishing a network of existing wells (8 nos.) and by constructing new piezometers (3 nos.) The monitoring of ground water levels is being done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected is being submitted to the MoEF and CC and to the State Pollution Control Board along with half-yearly monitoring reports. The latest report sent vide ref no RG-II/ENV/32/2024/136 dated 07.10.2024.</p>		<p>Date: 29/11/2024</p>
70	WATER QUALITY MONITORING AND PRESERVATION	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>PPs Submission: Being Complied Monitoring of water quality upstream and downstream of water bodies are being carried out once in three months and record of monitoring data is being maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office once in six months.</p>		<p>Date: 29/11/2024</p>
71	WATER QUALITY MONITORING AND PRESERVATION	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>PPs Submission: Being Complied Only seepage water pumped out of the project is being utilized for mining operations. So far 120 nos. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources at Ramagundam region. The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge.</p>		<p>Date: 29/11/2024</p>
Visit Remarks		
Last Site Visit Report Date:		23/08/2022
Additional Remarks:		NIL
<p>Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

Half Yearly Compliance Report**2024****01 Dec(01 Apr - 30 Sep)****Acknowledgement**

Proposal Name	Ramagundam Opencast-III Expansion-II Coal Mine Project		
Name of Entity / Corporate Office	The Singareni collieries Company limited		
Village(s)	N/A		
District	PEDDAPALLI		
Proposal No.	IA/TG/CMIN/1202111/2019	Category	Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	TELANGANA	Entity's PAN	*****8873F
MoEF File No.	J-11015/43/2014-IA.II (M)	Entity name as per PAN	THE SINGARENI COLLIERIES COMPANY LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	HYMR report for the period 1st OCT'2023 to 31st MAR'2024 pertaining to Ramagundam Opencast-III Expansion-II Coal Mine Project EC: J-11015/43/2014-IA.II (M) DT: 02.03.2021 for 8.16 MTPA capacity
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office The Singareni collieries Company limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	1655.23	1655.23
Revenue Land	0	0
Forest	0	0
Others	414.87	414.87
Total	2070.1	2070.1

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	coal	Million Tons per Annum (MTPA)	31/03/2026	8.16	3.54	8.16

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Boards for the proposed capacity of 8.16 MTPA prior to commencement.
<p>PPs Submission: Complied CFE order no 03/TSPCB/CFE/RO- RGM/HO/2023 dated 27.04.2023. valid up to 27.04.2028 for 9.52 MTPA (peak) CFO order no 20234688097 dated 19.10.2023 valid up to 31.03.2026 for 9.52 MTPA (peak)</p>		Date: 30/11/2024
2	Risk Mitigation and Disaster Management	PP shall strengthen the embankments of Jallaram Stream/Vagu with proper flood protection measures including construction of check dams, stone pitching at vulnerable points, safe bund, embankment, etc and that maintenance of the diverted portion of Jallaram nallah within the project area will be taken up by SCCL in consultation with I&CAD Department
<p>PPs Submission: Complied An embankment was made along the diverted Jallaram nallah and stone pitching was done at vulnerable points as advised in the design approved by I and CAD of Telangana State. SCCL is maintaining the Jallaram diverted nallah portion falling within the project area in consultation with I and CAD Department.</p>		Date: 29/11/2024
3	Risk Mitigation and Disaster Management	Engineered design for diversion of Jallaram Stream/Vagu shall be such that no water shortage shall happen to down-streams users
<p>PPs Submission: Complied Engineered design for diversion of Jallaram Stream/ Vagu was done through identified agencies such that no water shortage shall happen to down-streams users.</p>		Date: 29/11/2024
4	Statutory compliance	The Environmental Clearances issued vide letter nos. vide letter No. J-11015/43/2013-IA.II(M) dated 11/5/2015 shall be applicable along with this conditions.
<p>PPs Submission: Being Complied Earlier EC vide letter nos. vide letter No. J-11015/43/2013-IA.II (M) dated 11/5/2015 conditions are also being complied.</p>		Date: 30/11/2024
5	GREENBELT	PP shall plant only native fruit bearing/medicinal value trees, exotic species such as Eucalyptus shall not be planted now.
<p>PPs Submission: Complied Native fruit bearing/medicinal value trees like Neem, Amla, Maredu, Bhel, Jamun, Inga dulcii, Ficus benghalensis, F.religiosa, F.mollis, Wood apple, Bamboo, Sima rouba, hardwickia, Terminalia bellarica and in vacant patches fruit bearing species like Mango, Guava, Jackfruit, Sapota, etc., are being planted. Eucalyptus is not being planted. So far plantation was taken up in 459.05 ha of project area.</p>		Date: 29/11/2024

6	AIR QUALITY MONITORING AND PRESERVATION	Third party monitoring (by NEERI/CIMFR/IIT/NITs) for air quality shall be carried out at identified locations, both ambient and the process area, to arrive at impact of the proposed expansion at regular interval of 3 years.
<p>PPs Submission: Complied</p> <p>The air quality monitoring is being carried out by EPTRI in core and buffer zone of the project has been verified by ICFRE during third party EC compliance audit conducted during February 2023 and the air quality parameters are certified to be within the stipulated limits. However, third-party air quality monitoring will be carried out through one of the reputed agencies in the future as stipulated in the EC.</p>		Date: 29/11/2024
7	LAND RECLAMATION	Progressive backfilling of mine and progressive reclamation of OB dump shall be done
<p>PPs Submission: Being Complied</p> <p>Progressive backfilling of mine and progressive reclamation of OB dump is being done as per the approved EMP. So far plantation was taken up in 459.05 ha in project area (OB dump: 221.05 ha, internal dump: 54.85 ha and Safety zone etc: 238.00 ha) Back filling is in progress in 506.36ha of de-coaled void area.</p>		Date: 29/11/2024
8	AIR QUALITY MONITORING AND PRESERVATION	Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient fixed type water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at loading points etc.
<p>PPs Submission: Being Complied</p> <p>All mitigate measures are being taken to control dust and other fugitive emissions all along the roads, at loading and unloading points/areas, dumps etc. Fixed type water spraying lines are laid along the conveyor belt, haul roads and at coal face. 80 KL capacity : 02 28 KL capacity :13 10 KL capacity : 01 20 KL capacity: 09 (phase I and II) Total (25 No.s) Twenty five numbers of mobile water sprinklers are being deployed for sprinkling of water along haul roads, on dumps at loading and unloading areas etc. Mist spray arrangements are provided at crushers. Mechanical sweeper is provided. Vertical greenery system, green belt, etc., are developed for dust suppression. So far plantation was taken up in 459.05 ha in project area.</p>		Date: 29/11/2024
9	Human Health Environment	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
<p>PPs Submission: Being Complied</p> <p>Continuous monitoring of occupational safety and other health hazards is being carried out and being ensured. Occupational health surveillance program of the workers is being under taken periodically at SCCL hospitals and records are being maintained. Vocational training on health and safety is being imparted to workmen at Mine Vocational Training Center at regular intervals as per DGMS guidelines.</p>		Date: 29/11/2024
10	WASTE MANAGEMENT	Toe wall of at least 15 mts to 20 mts height should be constructed along the OB dump.
<p>PPs Submission: Being Complied</p> <p>Toe wall is constructed for the dump with a height of 1.5 m to 2.0 m as per mining plan.</p>		Date: 29/11/2024
11	AIR QUALITY MONITORING AND PRESERVATION	5 nos. of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution

<p>PPs Submission: Complied Five numbers of Fog canons (mist sprayer) are installed at surface feeder to reduce the impact of air pollution and functioning smoothly.</p>		<p>Date: 29/11/2024</p>
12	Statutory compliance	Fund allocation in Approved Wildlife conservation plan for schedule I species shall be deposited within six months of issue of EC letter.
<p>PPs Submission: Complied Wild life Conservation Plan and mitigation measures is prepared for Scheduled I species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr. RC.No.3505/2020/WL 1 Dated.08.04.2021 for an amount of Rs.335.68 Lakhs and will be implemented. An amount of Rs.164.34 was deposited in favour of Wild life conservation plan (Peddapalli) An amount of Rs.171.34 was deposited in favour of Forest Bio-Diversity conservation society of Telangana (Mancherial) vide ltr no RG1/EST/K/WLS/246 Dt. 02.05.2023.</p>		<p>Date: 29/11/2024</p>
13	GREENBELT	Green belt along the mine boundary should be developed on priority basis preferably within first 3 years.
<p>PPs Submission: Being Complied Green belt is developed along the mine boundary on top priority basis. So far plantation is taken up in 459.05 ha in project area including green belt along mine boundary.</p>		<p>Date: 29/11/2024</p>
14	WASTE MANAGEMENT	The recommendation of Scientific Study for stability of slopes, high walls and OB dumps carried out by National Institute of Technology Karnataka (NITK), Surathkal shall be complied.
<p>PPs Submission: Complied The recommendation of Scientific Study for stability of slopes, high walls and OB dumps carried out by National Institute of Technology Karnataka (NITK), Surathkal are being complied.</p>		<p>Date: 29/11/2024</p>
15	AIR QUALITY MONITORING AND PRESERVATION	Mining shall be carried out only shovel dumper combination and silo loading till railway siding through in-pit conveyor should be installed to avoid road.
<p>PPs Submission: Being Complied Mining is being carried out by shovel dumper combination and Coal is being transported from working face to surface feeders by dumpers, from surface bunker to CHP by a series of belt conveyors. The coal is being transported to various customers by rail mode from CHP.</p>		<p>Date: 29/11/2024</p>
16	GREENBELT	Project proponent to plant 150,000 nos. of native trees with broad leaves along the periphery of habitation/villages to prevent the effect of air pollution. After completion of tree plantation, number of trees shall be duly endorsed from District Forest Officer.
<p>PPs Submission: Complied About 1, 50,000 nos. of native trees with broad leaves were planted along the periphery of habitation/villages to prevent the effect of air pollution.In addition to above, SCCL is distributing native plants to surrounding villagers free of cost every year. 1.53 lakh nos.of plants were distributed to surrounding villagers at RG-II area and 10.55 lakh no.of plants distributed at Ramagundam region during last five years.</p>		<p>Date: 29/11/2024</p>
17	Statutory compliance	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.

<p>PPs Submission: Complied Blasting permission was obtained from DGMS for conducting mining operation near villages. Controlled blasting technique is being practiced using NONELs. Measures like optimum charge per delay, sufficient free-face, sequence of blasting, proper stemming, optimum drilling and blasting pattern, etc., are being taken to reduce the ground vibrations. Ground vibrations are being monitored with Minimate instrument and records are being maintained as per DGMS guidelines. The blast vibrations monitoring data reveals that the blast vibrations are within the stipulated limits and also exploring of deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages is in under study. There is no damage caused to habitation/structures due to blasting activity.</p>		<p>Date: 30/11/2024</p>
18	MISCELLANEOUS	<p>The Project Proponent shall 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 Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgement 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</p>
<p>PPs Submission: Complied The condition is noted and assured to abide the condition.</p>		<p>Date: 29/11/2024</p>
19	Statutory compliance	<p>Project proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table.</p>
<p>PPs Submission: Complied Ground water clearance was obtained vide letter no. 128/SCCL/2019/491, dated 25/06/2022 valid for 2 years. A renewal application was submitted on 24.04.2024, and the approval process is currently in its final stages.</p>		<p>Date: 29/11/2024</p>
20	Human Health Environment	<p>Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking etc. shall be undertaken once in six months and necessary remedial/preventive measure taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.</p>
<p>PPs Submission: Complied SCCL has provided hospitals in Ramagundam with qualified Occupational Health Specialist, nursing staff and medical equipment for conduct of regular and periodical medical examination of the workers engaged in the project. Regular and periodical medical examination of the workers including some ailments like BP, diabetes, habitual smoking etc., are being undertaken once in six months at these hospitals and records are being maintained. All necessary remedial/preventive measure is being taken. The recommendations of National Institute for ensuring good occupational environment for mine workers are being implemented. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards are being provided at Sector III dispensary which is very nearer to the mine.</p>		<p>Date: 29/11/2024</p>
21	MISCELLANEOUS	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No.Z-11013/57/2014-IA.II(M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitation and villages</p>

		are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.
<p>PPs Submission: Being Complied The mitigation measures provided in Office Memorandum No.Z 11013/57/ 2014-IA.II(M), dated 29th October, 2014, titled Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitation and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area are being complied.</p>		<p>Date: 29/11/2024</p>
22	Noise Monitoring & Prevention	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours
<p>PPs Submission: Complied All necessary measures are being taken such as orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours for not to disturb the biological clock of the villages. Noise levels are being monitored at regular intervals and data reveals that Noise level are within the permissible limits.</p>		<p>Date: 29/11/2024</p>
23	Statutory compliance	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.
<p>PPs Submission: Complied Wild life Conservation Plan and mitigation measures is prepared for Scheduled I species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr RC.No.3505/2020/WL 1 Dated.08.04.2021 for an amount of Rs.335.68 Lakhs and will be implemented. An amount of Rs.164.34 Lakhs was deposited in favour of Wild life conservation plan (Peddapalli) An amount of Rs.171.34 Lakhs was deposited in favour of Forest Bio-Diversity conservation society of Telangana (Mancherial) vide ltr. no RG1/EST/K/WLS/246.Dt:0 2.05.2023.</p>		<p>Date: 29/11/2024</p>
24	MISCELLANEOUS	Hon’ble Supreme Court in an Writ Petition(s) Civil No.114/2014, Common Cause vs. Union of India & Ors vide its judgment dated 8th January, 2020 ha directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing 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. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent”. The implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC
<p>PPs Submission: Being Complied The condition is noted and assured to abide the condition</p>		<p>Date: 29/11/2024</p>

General Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	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-200112/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
PPs Submission: Being Complied The monitoring data is being uploaded on the company website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change is referred and being complied.		Date: 29/11/2024
2	Corporate Environmental Responsibility	iii) 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 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.
PPs Submission: Being Complied An EAC committee at project level is established for compliance of EC/CFE/CFO/ GWC/FC etc and for implementing EMP. The funds earmarked for environmental protection measures are not being diverted for any other purpose. Year wise progress of implementation of environmental protection measures is being reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.		Date: 29/11/2024
3	Corporate Environmental Responsibility	iv) Self environmental audit shall be condition annually. Every three years third party environmental audit shall be carried out
PPs Submission: Being Complied Self environmental audit is being done at area level by the committee on half yearly basis. Third party environmental audit was carried out by ICFRE during February, 2023 and the report is enclosed.		Date: 29/11/2024
4	MISCELLANEOUS	i) The project proponent shall be 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 District or State, of which one shall be in the vernacular language within seven days and in additions this shall also be displayed in the project proponent's permanently.
PPs Submission: Complied The advertisement regarding grant of Environmental Clearance to this Project was published in two local news papers within seven days of grant of EC i.e. in news papers The Hans India (English) and Namaste Telangana (Telugu) on 07.03.2021. A copy of the Environmental clearance was also displayed in the SCCLs website permanently. A copy of the Environmental clearance was submitted to Telengana State Pollution Control Board.		Date: 30/11/2024
5	MISCELLANEOUS	ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Muncipal 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.
PPs Submission: Complied This condition was complied immediately after receiving EC from MoEFandCC, New Delhi. The copies of the environmental clearance were submitted to heads of local bodies, Panchayats and		Date: 30/11/2024

Municipal Bodies in addition to the relevant offices of the Government vide Lr. No. RG2/ENV/2021/22/18/ 19/20, dated 03.03.2021 for display the same for 30 days from the date of receipt.		
6	MISCELLANEOUS	iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis
PPs Submission: Complied The status of compliance of the stipulated environment clearance conditions, including results of monitored data are being uploaded on SCCL website and updating the same on half-yearly basis. Soft copies of the status of EC compliance is being submitted to the respective Regional Office of the MoEF and CC by mail once in every six months. Hard copy of the status of EC compliance is being submitted to the TSPCB office by register post once in every six months. Latest HYMR report was submitted vide Lr. No. RG2/ENV/03/2024/59, dt.24.05.2024 for the period ending March 2024.		Date: 30/11/2024
7	MISCELLANEOUS	iv) The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient level) 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.
PPs Submission: Complied The criteria parameters like PM10, PM2.5, SO2, NOx (ambient levels) indicated for the projects are being monitored and displayed at the project site main road for disclosure to the public and monitored data is being uploading to the company website.		Date: 30/11/2024
8	MISCELLANEOUS	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.
PPs Submission: Complied Six-monthly reports on the status of the compliance of the stipulated environmental conditions are being submitted on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.		Date: 30/11/2024
9	MISCELLANEOUS	vi) The project proponent shall follow the mitigation measures provided in this Ministry's OM.No.Z-11013/5712014-IA.II(M) dated 29th 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'.
PPs Submission: Being Complied The mitigation measures provided in this Ministry's OM No.Z 11013/5712014-IA.II (M) dated 29th 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 are being followed.		Date: 30/11/2024
10	MISCELLANEOUS	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.
PPs Submission: Complied The Environmental statement for each financial year ending 31 March 2024 in Form V is being submitted vide ref no RG-II/ENV/3B/2024/124 dated 19.09.2024 by the project authority to the		Date: 30/11/2024

State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, and also uploaded on the companys website along with the status of compliance of EC conditions.		
11	MISCELLANEOUS	viii) The project authorities shall inform to the Regional Office of the MoEF&CC regarding commencement of mining operations.
PPs Submission: Complied As the mine is an operating opencast project and only production was enhanced from 6.8 MTPA to 8.16 MTPA and progress of mining operations has been communicated through half yearly reports. Vide letter no ENV/03/2021/19 dated 07.03.2021 project authorities informed to the Regional Office of the MoEF and CC regarding commencement of mining operations.		Date: 30/11/2024
12	MISCELLANEOUS	ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Complied Stipulations made by the State Pollution Control Board and the State Government are being adhered to.		Date: 30/11/2024
13	MISCELLANEOUS	x) The project proponent shall abide by 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.
PPs Submission: Being Complied All commitments and recommendations made in the EIA/EMP report and also during presentation to the EAC are being complied. Public hearing is exempted for expansion project.		Date: 30/11/2024
14	MISCELLANEOUS	xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
PPs Submission: Agreed to Comply Any further expansion or modification will not be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.		Date: 30/11/2024
15	MISCELLANEOUS	xii) Concealing actual 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.
PPs Submission: Being Complied Actual data is being submitted.		Date: 30/11/2024
16	MISCELLANEOUS	xiii) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Being Complied The conditions stipulated in Environmental clearance letter are being implemented.		Date: 30/11/2024
17	MISCELLANEOUS	xiv) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
PPs Submission: Agreed to Comply If any additional conditions are stipulated by the Ministry, same will be implemented.		Date: 30/11/2024

18	MISCELLANEOUS	xv) The Regional Office of the 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.
PPs Submission: Agreed to Comply Project authorities are extending full co-operation during the visits of the office(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.		Date: 30/11/2024
19	MISCELLANEOUS	xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act., 1974, the (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 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.
PPs Submission: Being Complied All the measures are being taken to avoid soil contamination, contamination of ground water and surface water and occupational and other diseases due to the mining operations. Public Liability Insurance has been obtained vide policy no. 550200492410000034 which is valid up to 29.04.2025.		Date: 30/11/2024
20	MISCELLANEOUS	5) The proponent shall abide by all the commitments and recommendations made in EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.
PPs Submission: Being Complied All commitments and recommendations made in the EIA / EMP report and also during presentation to the EAC are being complied. Public hearing is exempted for expansion project		Date: 30/11/2024
21	MISCELLANEOUS	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.
PPs Submission: Agreed to Comply The project is started after obtaining all necessary clearance /approvals only. Any further condition, if stipulated by the ministry or any other competent authority for environmental protection, will be complied.		Date: 30/11/2024
22	MISCELLANEOUS	7) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Complied No appeals against this environmental clearance lie with the National Green Tribunal.		Date: 30/11/2024
23	MISCELLANEOUS	8) The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of
PPs Submission: Complied		Date:

No illegal mining is done in this project.		30/11/2024
24	Statutory compliance	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.
PPs Submission: Complied Not applicable as no forest land involved in the project.		Date: 29/11/2024
25	Statutory compliance	ii) The Project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
PPs Submission: Complied Not applicable.		Date: 29/11/2024
26	Statutory compliance	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).
PPs Submission: Complied Wild life Conservation Plan and mitigation measures is prepared for Scheduled I species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr RC.No.3505/2020/WL 1 Dated. 08.04.2021 for an amount of Rs.335.68 Lakhs and will be implemented. An amount of Rs.164.34 Lakhs was deposited in favour of Wild life conservation plan (Peddapalli) An amount of Rs.171.34 Lakhs was deposited in favour of Forest Bio-Diversity conservation society of Telangana (Mancherial) vide ltr no RG1/EST/K/WLS/246 Dt: 02.05.2023.		Date: 29/11/2024
27	Statutory compliance	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.
PPs Submission: Complied Complied CFE order no 03/TSPCB/CFE/RO- RGM/HO/2023 dated 27.04.2023. valid up to 27.04.2028 for 9.52 MTPA (peak) CFO order no 20234688097 dated 19.10.2023 valid up to 31.03.2026 for 9.52 MTPA (peak)		Date: 30/11/2024
28	Statutory compliance	v) The Project proponent shall obtain the necessary permission from the Central Ground Water Authority.
PPs Submission: Complied Ground water clearance was obtained vide letter no. 128/SCCL/2019/491, dated 25/06/2022 valid for 2 years. A renewal application was submitted on 24.04.2024, and the approval process is currently in its final stages.		Date: 29/11/2024
29	Statutory compliance	vi) Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Water Management Rules, 2016/Hazardous & Other Water Management Rules, 20916.
PPs Submission: Complied Solid/hazardous waste generated in the mines is being addressed in accordance to the Solid Waste		Date: 29/11/2024

Management Rules, 2016/Hazardous and Other Waste Management Rules, 2016.		
30	AIR QUALITY MONITORING AND PRESERVATION	i) 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>PPs Submission: Being Complied</p> <p>Continuous Ambient Air Quality Monitoring Station as prescribed in the statute was established in the core zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations was decided in consultation with the State Pollution Control Board by considering meteorological data, topographical features and environmentally and ecologically sensitive targets. Ambient air quality parameters such as PM10, PM2.5, SO2 and NOx are being monitored at regular intervals. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc., are being carried out once in six months and monitoring data is being submitted along with half yearly reports to the ministry and its regional office of MoEFandCC.</p>		Date: 29/11/2024
31	AIR QUALITY MONITORING AND PRESERVATION	ii) 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>PPs Submission: Being Complied</p> <p>The Ambient Air Quality monitoring in the core zone is being 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 are being regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>		Date: 29/11/2024
32	AIR QUALITY MONITORING AND PRESERVATION	iii) 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 emission 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>PPs Submission: Being Complied</p> <p>The coal transportation trucks are being covered with tarpaulin. All necessary imitative measures such as regular water/mist sprinkling/mist spray/fixed pipe line spray etc., are being taken to control air pollution at haul road, loading/unloading, and transfer points, on dump etc. Fugitive dust emissions from all sources are being controlled. 25 numbers of water sprinklers are being deployed for sprinkling of water along haul roads, on dumps at loading and unloading areas etc. 80KL capacity : 02 28KL capacity : 13 10KL capacity : 01 20KL capacity : 09(Phase IandII) It is being ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>		Date: 29/11/2024
33	AIR QUALITY	iv) The transportation of coal shall be carried out as per the

	MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied</p> <p>The transportation of coal is being carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Coal is being transported from working face to surface feeders by dumpers, from surface bunker to CHP by a series of belt conveyors. The coal is being transported to various customers by rail mode from CHP.</p>		Date: 29/11/2024
34	AIR QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied</p> <p>Vehicular emissions are being kept under control and they are regularly monitored. The latest vehicular emissions test was conducted during the period from 14.08.2024 to 24.08.2024. All the vehicles engaged in mining and allied activities are being operated after obtaining PUC certificate from the authorized pollution testing center.</p>		Date: 29/11/2024
35	AIR QUALITY MONITORING AND PRESERVATION	vi) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
<p>PPs Submission: Being Complied</p> <p>Coal stock pile/crusher/feeder and breaker material transfer points are provided with dust suppression system. Belt-conveyors will be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry was made to avoid air borne dust. Drills are being wet operated.</p>		Date: 29/11/2024
36	AIR QUALITY MONITORING AND PRESERVATION	vii) Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.
<p>PPs Submission: Being Complied</p> <p>Coal handling plant is being operated with effective control measures such as mist spray arrangements at transfer, loading and unloading points, along belt conveyor, fixed point water sprinkling, water sprinkling with mobile water sprinkler, mist spray machine etc. Environmental friendly sustainable technology is being implemented for mitigating such parameters such as mist spray, mist spray machines etc.</p>		Date: 29/11/2024
37	WATER QUALITY MONITORING AND PRESERVATION	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, 2020 and as amended from time to time by the Central Pollution Control Board.
<p>PPs Submission: Being Complied</p> <p>The effluent discharge (mine waste water, workshop effluent) are being 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. The monitoring data is being submitted to the ministry along with half yearly reports.</p>		Date: 29/11/2024
38	MISCELLANEOUS	10) This environmental clearance 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.
PPs Submission: Complied Not applicable.		Date: 30/11/2024
39	LAND RECLAMATION	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 (MoEF&CC) from time to time shall be submitted to MoEF&CC/Regional Office (RO).
PPs Submission: Complied Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is carried out during 2022 in 1:50,000 scale for monitoring land use pattern and report is submitted to MoEFandCC/ Regional Office (RO) at Chennai vide Ref.No. RGM/ENV/03/2023/49, dated 24.05.2023.		Date: 29/11/2024
40	LAND RECLAMATION	ii) The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40m, 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.
PPs Submission: Being Complied All the recommendations will be complied at final closure stage. At final closure stage, the final mine void depth will be as per the approved Mine Closure Plan, and in case it exceeds 40m, adequate engineering interventions will be provided for sustenance of aquatic life therein. The remaining area will 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.		Date: 29/11/2024
41	LAND RECLAMATION	iii) The entire excavated area, backfilling, external OB dumping (including top soil) and a forestation plan shall be in conformity with the "during mining" land –use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to the Ministry. Progressive compliance status vis-à-vis the post mining land use pattern shall be submitted to the MoEF&CC/RO.
PPs Submission: Being Complied Progressive reclamation of the degraded land in the project is being taken up in the project as per the phase-wise restoration and reclamation program envisaged in the approved EIA/EMP and shown in the Table below. Accordingly, plantation has been done on the stabilized portion of external overburden dump and vacant lands in the project area. So far, OB is backfilled in 537.47 ha. of de-coaled void area. Total progressive plantation up to March-2024 is 459.05 ha. Plantation is being done as per the progress of external dump and stabilization of backfilled area. Progressive compliance status vis a vis the post mining land use pattern is being submitted to the MoEFandCC/RO along with HYMR. The latest HYMR report was submitted vide Lr. Ref No.RG2/ENV/03/2024/59, dt.24.05.2024 for the period ending March 2024.		Date: 29/11/2024
42	LAND RECLAMATION	iv) Fly ash shall be used for external dump of overburden, backfilling or stowing of mines as per the provisions contained 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.
<p>PPs Submission: Being Complied As per S.O.5481(E), dated 31.12.2021 issued by the MoEFandCC, GoI, a committee headed by Chairperson of CPCB, representatives of MoEFandCC, MoC, MoP, DGMS and IBM was constituted to identify mines (Both underground and opencast) for fly ash utilization. The committee in its meeting opined that, in running mines, fly ash filling is not possible due to safety issues as per various studies conducted by CIL and advised to fill ash in the abandoned mine voids. Guidelines in this regard are awaited. All the directions/guidelines stipulated by the Committee with regard to utilization of fly ash will be implemented. Further, MoEFandCC also advised SCCL to conducted a scientific study through CSIR- Central Institute of Mining and Fuel Research (CIMFR), Dhanbad in one of its opencast mines i.e., Manuguru Opencast Project to ascertain the stability of overburden dumps by mixing of fly ash. CSIR-CIMFR submitted its final draft report on 27.02.2024. As per the report, it is not advisable and feasible to use 25 percentage of Ash and 75 percentage of Overburden in external as well as in internal dumps of MNG OCP both under present and post mining scenario. Further, CSIR-CIMFR will submit its final report within a short period. Based on the report findings, SCCL will request MoEFandCC for exempting the EC condition regarding usage of fly ash in dumps and back filling operations in the running mines of SCCL. However, it is to submit that the fly ash is being utilized in the underground mines of SCCL for stowing of goaved out areas. Till now, around 115.43 Lakh Cu.m of ash has been utilized for this purpose.</p>		Date: 29/11/2024
43	LAND RECLAMATION	v) Further, if 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 stabilized with native grass species to prevent erosion and surface run off. 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.
<p>PPs Submission: Being Complied The topsoil is being stored temporarily at earmarked site and is used for land reclamation and plantation purposes. OB dump is being stabilized with native grass species like Hamato grass to prevent erosion and surface run off. The overburden dump is being vegetated with native flora species. The excavated area is being backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas will continue until the vegetation becomes self-sustaining. So far plantation is taken up in 459.05 ha of project area (OB Dump: 221.05 ha, Internal dump: 54.85 ha and safety zone etc: 238.00 ha). Data is being submitted along with half yearly reports to the ministry/regional office of MoEFandCC on six-monthly basis.</p>		Date: 29/11/2024
44	LAND RECLAMATION	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.
<p>PPs Submission: Complied SCCL will implement the directions of Honorable Supreme Court with regard to grazing land.</p>		Date: 29/11/2024
45	GREENBELT	i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported 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.
<p>PPs Submission: Complied All precautionary measures are being taken during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, will be prepared and implemented in consultation with the State Forest and Wildlife Department. Wild life Conservation Plan and mitigation measures is prepared for Scheduled I species (Pavo cristatus and Varanus bengalensis) existing in the Buffer Zone of the project by the state forest department and approved by the PCCF Vide ltr RC.No.3505/2020/WL 1, Dated.08.04.2021 for an amount of Rs.335.68 Lakhs and will be implemented. An amount of Rs.164.34 Lakhs was deposited in favour of Wild life conservation plan, Peddapalli An amount of Rs.171.34 Lakhs was deposited in favour of Forest Bio-Diversity conservation society of Telangana Mancherial vide ltr no RG1/EST/K/WLS/246, Dt: 02.05.2023.</p>		Date: 29/11/2024
46	GREENBELT	ii) Greenbelt consisting of 3 tier plantation of width not less than 7.5m 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.
<p>PPs Submission: Complied Greenbelt consisting of 3 tier plantation of width not less than 7.5 m is developed all along the mine lease area. The green belt comprising a mix of native species (endemic species) developed all along the major approach/coal transportation roads. So far plantation was taken up in 459.05 ha of project area. Plantation is being done as per approved EMP.</p>		Date: 29/11/2024
47	PUBLIC HEARING	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 and six-monthly basis.
<p>PPs Submission: Complied Adequate illumination is being ensured in all mine locations as per DGMS standards and monitored weekly. The report on the same is submitted to this ministry and its RO on six-monthly basis.</p>		Date: 29/11/2024
48	Human Health Environment	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 Rues, 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.
<p>PPs Submission: Complied Occupational health survey for initial and periodical medical examination of the personnel engaged in the project is being done at regular intervals and the records are being maintained accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20 percentage of the personnel identified from workforce engaged in active mining operations are being subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.</p>		Date: 29/11/2024
49	Human Health Environment	iii) Personal (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.
<p>PPs Submission: Being Complied Persons including outsourced employees being deployed in open atmosphere in mining operations are being provided with dust masks and adequate training and information on safety and health aspects is being imparted.</p>		Date: 29/11/2024

50	PUBLIC HEARING	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 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.
PPs Submission: Complied Public hearing is exempted under 7(ii) of EIA notification, 2006 and no RandR involved in the expansion project.		Date: 30/11/2024
51	PUBLIC HEARING	v) The project proponent shall follow the mitigation measures provided in this Ministry's OM.No.Z-11013/5712014-IA.II(M) dated 29th 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'.
PPs Submission: Being Complied The mitigation measures provided in Ministry's OM.No.Z-11013/5712014-IA.II(M) dated 29th October, 2014, titled Impact of Mining activities on habitationsissues 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 are being complied.		Date: 30/11/2024
52	Corporate Environmental Responsibility	i) The Company shall have a well laid down environment 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.
PPs Submission: Complied The company is having a well laid down environmental policy duly approved by the Board of Directors. The environmental policy is containing 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 is having a defined system of reporting infringements/deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/or shareholders/stake holders.		Date: 29/11/2024
53	Corporate Environmental Responsibility	ii) 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 Executives, who will directly to the head of the organization.
PPs Submission: Complied A company level environment cell with qualified personnel headed by General Manager (Environment) who is directly reportable to the Chairman of the Company is established to monitor and guide in implementation of the environmental safeguards. 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. Apart from this, a unit level Environmental Management Committee with multi disciplinary team has been constituted under the chairmanship of SO to GM. The committee has been constituted with following members. 1. SO to General Manager Chairman 2. Project Officer Member 3. Area Engineer (EandM) Member 4. Area Civil Engineer Member 5. Area Forest Officer Member 6. Area Estates Officer Member 7. Project Manager Member 8. Project Engineer Member 9. Project Surveyor Member 10. Project Env. Officer Member 11. Area Env. Officer Secretary 12. Sr. Hydro Geologist Member 13. Area Survey Officer Member		Date: 29/11/2024

54	MISCELLANEOUS	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.
PPs Submission: Complied Not applicable.		Date: 30/11/2024
55	LAND RECLAMATION	the mining lease holders shall, after ceasing mining operations, undertake re-grassing 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
PPs Submission: Agreed to Comply Will be complied. At the end of mining operations, the mining area and other areas which were disturbed due to mining will be regrass and restored to the land to a condition which is fit for growth of fodder, flora and fauna etc.		Date: 30/11/2024
56	WATER QUALITY MONITORING AND PRESERVATION	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, 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.
PPs Submission: Being Complied Monitoring of ground water levels and quality is being carried out in and around the mine lease area by establishing a network of existing wells (8 nos.) and by constructing new piezometers (4 nos.) The monitoring of ground water levels is being done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected is being submitted to the MoEF and CC and to the State Pollution Control Board along with half-yearly monitoring reports. Latest HYMR report was submitted vide Lr. No. RG2/ENV/03/2024/59 dt.24.05.2024. The latest ground water monitoring report sent vide ref no RG-II/ENV/32/2024/136 dated 07.10.2024.		Date: 29/11/2024
57	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied Monitoring of water quality upstream and downstream of water bodies are being carried out once in three months and record of monitoring data is being maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office once in six months.		Date: 29/11/2024
58	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Being Complied Only seepage water pumped out of the project is being utilized for mining operations. So far 120 nos. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources at Ramagundam region. The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge. Storage tank for irrigation and ground water recharge		Date: 29/11/2024
59	WATER QUALITY MONITORING AND PRESERVATION	vi) Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine

	PRESERVATION	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 utilized 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 rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.
<p>PPs Submission: Being Complied</p> <p>Catch and/or garland drains for a length of 4.54 km is made around the quarry and around the dump. four numbers of siltation ponds, two nos of size 50m x 20m x 2m and two nos 30m x 10m x 2m were constructed around the mine workings, coal yard and OB dumps to prevent run off of water and flow of sediments directly into the nearby tanks and water bodies. The drains/ponds so constructed are being regularly de-silted particularly before onset of monsoon and maintained properly. Further, dump material is being properly consolidated/ compacted and accumulation of water over dumps is avoided by providing adequate channels for flow of silt into the drains. Sump is provided with sufficient capacity for adequate retention period of seepage water to allow proper settling of silt material. The water so collected in the sump is being utilized for dust suppression and green belt development and other industrial use. Retaining wall is constructed at the toe of the OB dump within the mine to check run-off and siltation based on the rainfall data. Plantation is being taken up with native-mixed species between toe of the dump and adjacent field/habitation/water bodies.</p>		Date: 29/11/2024
60	WATER QUALITY MONITORING AND PRESERVATION	vii) Adequate ground water 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).
<p>PPs Submission: Being Complied</p> <p>Four numbers of siltation ponds, two numbers of size 50m x 20m x 2m and two numbers 30m x 10m x 2m were constructed around the mine workings were constructed for augmentation of ground water. So far 120 nos. of Rainwater harvesting pits are constructed in surrounding villages for augmentation of ground water resources at Ramagundam region. The excess treated mine discharge water after meeting the stipulated norms is being discharged into nearby tank for irrigation and ground water recharge. The project authorities will meet water requirement of nearby village(s) after due treatment conforming to specific requirement (standards) if any such case arises</p>		Date: 29/11/2024
61	WATER QUALITY MONITORING AND PRESERVATION	viii) Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standard 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.
<p>PPs Submission: Being Complied</p> <p>Two ETPs are also provided one at CHP and another at Base Workshop. Waste water generated from Workshop and CHP of the project, is being properly collected and treated in the ETPs as to conform to the standards prescribed under the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. A 2 MLD capacity STP is provided in SCCL colony for treating colony effluent.</p>		Date: 29/11/2024
62	WATER QUALITY MONITORING AND PRESERVATION	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.
<p>PPs Submission: Being Complied The seepage water pumped out of the project after siltation is being utilized for dust suppression, plantation and fire fighting etc. The drains are being regularly de- silted particularly after monsoon and maintained properly.</p>		Date: 29/11/2024
63	WATER QUALITY MONITORING AND PRESERVATION	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/GOI 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.
<p>PPs Submission: Being Complied The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of water bodies in the area has been prepared and being implemented. There are no diversions of natural water courses involved in the project. The construction of embankment to prevent any danger against inrush of surface water into the mine is done as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.</p>		Date: 29/11/2024
64	WATER QUALITY MONITORING AND PRESERVATION	xi) The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to distance of 5 km. A rivarine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/water resource department in the state government
<p>PPs Submission: Complied Not applicable.</p>		Date: 29/11/2024
65	Noise Monitoring & Prevention	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 mentioned.
<p>PPs Submission: Being Complied Adequate measures are being 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 are being provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness program for users is being conducted. Progress in usage of such accessories is being monitored.</p>		Date: 29/11/2024
66	Noise Monitoring & Prevention	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.
<p>PPs Submission: Complied Controlled blasting technique with NONELS is being carried out in order to mitigate ground vibrations, fly rock, noise and air blast etc., as per the guidelines prescribed by the DGMS.</p>		Date: 29/11/2024

67	Noise Monitoring & Prevention	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.
PPs Submission: Being Complied Noise level survey is being carried out as a part of PPEM at the locations in the Core Zone and Buffer zones of the project area. In addition, noise level survey is being carried out as per the DGMS circulars to assess noise exposure of the workmen at vulnerable points in the mine premises and records are being maintained.		Date: 29/11/2024
68	MINING PLAN	i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations mad there under as applicable.
PPs Submission: Complied Mining operations are being carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.		Date: 29/11/2024
69	MINING PLAN	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 Directorate General Mines Safety (DGMS).
PPs Submission: Being Complied Mining operations are being 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 Directorate General Mines Safety (DGMS).		Date: 29/11/2024
70	MINING PLAN	iii) No mining shall be carried out in forest land without obtaining Forestry clearance as per Forest (Conservation) Act. 1980
PPs Submission: Complied Not applicable. No forest land involved in the project.		Date: 29/11/2024
71	MINING PLAN	iv) Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
PPs Submission: Being Complied M/s SCCL so far 234.5 MW capacity Solar plants are synchronized and another 65.5 MW plant is under installation and exploring the possibility of tapping the solar energy for their energy requirements. In Ramagundam region 50 MW Solar power plants is synchronized and another 22 MW capacity is under installation. Recently 10.5 MW commissioned at kothagudem Area and In stage 2, it is proposed to take up another 232.5 MW solar plants in different area of SCCL mines. Also SCCL is commissioned 5 MW Solar Floating Power Plants on water bodies and 10MW capacity is under installation on water bodies in Telangana State.		Date: 29/11/2024
Visit Remarks		
Last Site Visit Report Date:		23/08/2022
Additional Remarks:		HYMR report for the period 1st OCT'2023 to 31st MAR'2024 pertaining to Ramagundam Opencast-III Expansion-II Coal Mine Project EC: J-11015/43/2014-IA.II (M) DT: 02.03.2021 for 8.16 MTPA capacity
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be		

considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

**Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)**

Acknowledgement

Proposal Name	Ramagundam Opencast -III Expansion -II coal mine project.		
Name of Entity / Corporate Office	The singareni collieries company Ltd.		
Village(s)	N/A		
District	PEDDAPALLI		
Proposal No.	NO.J-11015/43/2013-1A-II(M)	Category	Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	TELANGANA	Entity's PAN	*****8873F
MoEF File No.	NO.J-11015/43/2013-1A-II(M)	Entity name as per PAN	THE SINGARENI COLLIERIES COMPANY LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Half Yearly Compliance Report of Ramagundam Opencast - III Expansion Phase-II Coal Mining Project for the period ending SEPTEMBER 2024.
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office	The singareni collieries company Ltd.	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	1655.23	1655.23
Revenue Land	0	0
Forest	0	0
Others	414.87	414.87
Total	2070.1	2070.1

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Ramagundam Opencast - III Expansion Phase-II Coal Mining Project	Million Tons per Annum (MTPA)	31/03/2026	6.80	9.50	9.52

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Coal transportation Up to in pit crusher by Dumpers; In pit crusher to surface Bunker by belt conveyor, Surface to Siding by rail up to pit head CHP and loading at siding by EOL railway loading system with Silo.
<p>PPs Submission: Being Complied Coal is being transported from working face to surface feeders by dumpers, from surface bunker to CHP by a series of belt conveyors. The coal is being transported to various customers by rail mode from CHP loading to wagon at siding through pre-weigh bin by EOL.</p>		Date: 30/11/2024
2	Statutory compliance	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
<p>PPs Submission: Complied The year wise coal excavation details are furnished under Year Consented Quantity (MTPA) Quantity Excavated (MTPA) 2015-16 6.30(Normative) 6.80(Peak) 5.00 2016-17 6.30(Normative) 6.80(Peak) 6.014 2017-18 6.30(Normative) 6.80(Peak) 6.80 2018-19 6.30(Normative) 6.80(Peak) 6.354 2019-20 6.30(Normative) 6.80(Peak) 6.79 2020-21 6.30(Normative) 8.16(Peak) 7.44 2021-22 6.30(Normative) 8.16(Peak) 8.15 2022-23 6.30(Normative) 8.16(Peak) 8.15 2023-24 6.30(Normative) 9.52(Peak) 9.50 Production from the mine not exceeded the limit prescribed in the EC.</p>		Date: 30/11/2024
3	Human Health Environment	Dust mask to be provided to everyone working in the mining area
<p>PPs Submission: Being Complied Dust masks were provided to all persons working in the mining area</p>		Date: 30/11/2024
4	Statutory compliance	Special care must be taken w.r.t. fire hazards/subsidence
<p>PPs Submission: Being Complied Special care is being taken w.r.t. fire hazards by way of providing the following. 1. All HEMM were provided with Automatic Fire Detection and Suppression System. (AFDSS). 2.Portable fire extinguishers were provided on all the HEMM 3 Portable fire extinguishers were provided at all fire prone points and main junction in the mine. 3. Water is being supplied with sufficient pressure to all fire areas. 4. All water tankers were provided with Jet water sprayers as additional feature used to suppress fire from a safe place. And This is an opencast mine and there is no subsidence occurred.</p>		Date: 30/11/2024
5	MINING PLAN	The OB shall be completely re-handled at the end of the mining and will be back filled up to the ground level and covered with about a meter thick top soil and put to use. The land after mining shall be brought back for agriculture purpose.
<p>PPs Submission: Being Complied Agreed upon and assured to abide the condition at appropriate</p>		Date: 30/11/2024

6	Human Health Environment	Coal transportation Up to in pit crusher by Dumpers; In pit crusher to surface Bunker by belt conveyor, Surface to Siding by rail up to pit head CHP and loading at siding by EOL railway loading system with Silo.
PPs Submission: Being Complied Coal is being transported from working face to surface feeders by dumpers, from surface bunker to CHP by a series of belt conveyors. The coal is being transported to various customers by rail mode from CHP loading to wagon at siding through pre-weigh bin by EOL.		Date: 30/11/2024
7	AIR QUALITY MONITORING AND PRESERVATION	The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.
PPs Submission: Being Complied Thick Plantation was done along the periphery of the mining area		Date: 30/11/2024
8	Human Health Environment	Initiate a study with regard to damage to bones of the villagers and to take adequate remedial measures.
PPs Submission: Being Complied Environmental base line data was collected in the study area of the project through EPTRI, Hyderabad during summer season, 2019. In this connection, as a part of socio-economic survey, historical data on the Health status of the people in the region was collected from DMHO, Peddapalli. As per the health records, there was no incidence of cases relating to damage to bones of nearby villagers. Also, no bone related issues were reported during the field survey in the villages falling in the study area. The disease incidence records collected from the DMHO, Peddapalli and the field survey and the report also submitted.		Date: 30/11/2024
9	WATER QUALITY MONITORING AND PRESERVATION	Garland drains be provided
PPs Submission: Complied 11.26 Kms of Garland drains were provided.		Date: 30/11/2024
10	WATER QUALITY MONITORING AND PRESERVATION	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
PPs Submission: Complied An embankment was made along the diverted Jallaram nallah, with stone pitching wherever necessary, as per the design approved by I and CAD of Telangana State. SCCL is maintaining the Jallaram diverted nallah portion falling within the project area in consultation with IandCAD Department.		Date: 30/11/2024
11	Statutory compliance	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier
PPs Submission: Agreed to Comply Agreed upon and assured to abide the condition.		Date: 30/11/2024
12	Human Health Environment	Everybody in the core area should be provided with mask for protection against fugitive dust emissions
PPs Submission: Being Complied All persons working in the core area were provided with masks and PPE for protection against fugitive dust emissions		Date: 30/11/2024

13	Human Health Environment	Medical facilities shall be provided to the villagers
PPs Submission: Being Complied Medical camps are being organized to the surrounding villagers and medicines are also provided free of cost		Date: 30/11/2024
14	Statutory compliance	All safety measures shall be taken as per CMR, 1957 and related Circulars.
PPs Submission: Being Complied All the works are being carried out as per provisions of CMR-1957, CMR-2017 and Circulars either from DGMS or ISO SCCL.		Date: 30/11/2024
15	Statutory compliance	The production shall be within the same Mining Lease area.
PPs Submission: Being Complied The production is being planned within the same Mining Lease area.		Date: 30/11/2024
16	WATER QUALITY MONITORING AND PRESERVATION	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly de silted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50 percentage safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
PPs Submission: Complied Catch drains and siltation ponds have been constructed around the mine workings were constructed for augmentation of ground water. Four numbers of siltation ponds, two nos of size 50m x 20m x 2m and two nos 30m x 10m x 2m were made to arrest silt and sediment flows from soil, OB and mineral dumps. The water collected is being utilized in the mine area, roads, green belt development, etc. The drains are being regularly de- silted for free flow of water. Garland drains were made to accommodate rain water from the peak sudden rainfall and maximum discharge in the catchment area. Sump was provided to allow proper settling of silt material.		Date: 30/11/2024
17	WATER QUALITY MONITORING AND PRESERVATION	The embankment constructed along the river boundary shall be of suitable dimension and critical patches shall be strengthened by stone pitching on the river front side and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation
PPs Submission: Complied An embankment was made along the diverted Jallaram nallah, with stone pitching wherever necessary, as per the design approved by I and CAD of Telangana State. SCCL is maintaining the Jallaram diverted nallah portion falling within the project area in consultation with I and CAD Department.		Date: 30/11/2024
18	Human Health Environment	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.
PPs Submission: Being Complied Explained to all supervisors about the necessity of dust controlling measures and made responsible for ensuring wearing of dust mask in the core area.		Date: 30/11/2024
19	Corporate Environmental Responsibility	The CSR cost should be Rs.5 per Tonnes of Coal production which should be adjusted as per the annual inflation

<p>PPs Submission: Being Complied The following CSR activities were taken up so far: 1. In the year 2024-25, Providing basic amenities to ZPH School, Peddapalli, RG-II Area and Miscellaneous works at Smashanavatika, Allur Village at RG-II Area for worth of Rs 27.90 Lakhs. 2. In the year 2021-22, Construction of Bus shelter in Dubbapalli village of Manthani Mandal at RGII area and Drilling Bore wells in Peddampet village of RG-II Area and work in process for worth of Rs 15.34 Lakhs. 3. In the year 2020-21, Swatchata Maha Programme during October 2020 coinciding with swatchatha Hi seva and Supply of drinking water to Mangalpalli and Peddampet villages through tractor mounted tanker of 4,000 Liter at RG-II Area for worth of Rs 10.04 Lakhs. 4. In the year 2019-20, Supply of drinking water to PDFs of Mangalpalli and Peddampet villages through tractor mounted tanker of 4,000 Liter capacity at RG-II Area for worth of Rs 6.93 Lakhs. 5. In the year 2018-29, Supply of drinking water to PDFs of Mangalpalli and Peddampet villages through tractor mounted tanker of 4,000 Liter capacity at RG-II Area for worth of Rs 4.68 Lakhs. 6. In the year 2017-18 Laying of 180 mm pipe line from storage tank to irrigation of penchikal pet village at OCP-III of RG-II Area worth of Rs 35.21 Lakhs 7. In 2015-16 Rs 64.74 Lakhs were spent on CSR activities 8. In 2014-15 Rs 11.61 Lakhs were spent on CSR activities In addition to the above drinking water is being supplied to surrounding villages since 2013 to till date with an average of 4 trips per day under CSR activity.</p>		<p>Date: 30/11/2024</p>
20	Human Health Environment	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
<p>PPs Submission: Being Complied Periodical medical examinations(PME) is being conducted at an interval of once in five years for employees of age up to 45 years and once in three years for employees more than 45 years of . During the examinations people are being tested for the lung diseases. Free medical treatment to workmen and their family is provided and all the children of workmen are covered under immunization program. 327 employees have undergone Periodical Medical Examination (PME) during last Six months and records are being maintained.</p>		<p>Date: 30/11/2024</p>
21	WATER QUALITY MONITORING AND PRESERVATION	No ground water shall be used for mining operations
<p>PPs Submission: Complied Ground water is not being used for mining operations. A minimum quantity of mine discharge water is being used for washing, drinking. Fire fighting and dust suppression.</p>		<p>Date: 30/11/2024</p>
22	LAND RECLAMATION	An estimated total 781.30 Min 3 of OB will be generated during the entire life of the mine. Out of which 172.34 Mm3 of OB will be dumped in one external OB Dumps an ear marked area covering 444.15 ha of land with height of 90 m. 608.96 Mm3 of will be one internal OB dump in covering an area of 365.98 ha with height of 40 m. The maximum height of external OB dump in covering will not exceed 90 m. The maximum slope of dump shall not exceed 28 degrees OB dump for hard OB will not exceed 90 m, The maximum slope of the dump shall not exceed 28 degrees . Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self sustaining and compliance status shall be submitted to MOEF and its Regional office on yearly basis.
<p>PPs Submission: Being Complied The estimated total OB is being dumped at earmarked dump sites only. Reclaimed OB dump sites are being monitored and management is continued till the vegetation becomes self sustaining and compliance status is being submitted to MOEF and CC and its Regional office on yearly basis.</p>		<p>Date: 30/11/2024</p>
23	Noise Monitoring & Prevention	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigate measures for control of ground vibrations and to arrest the fly rocks and boulders shall be

		implemented.	
		<p>PPs Submission: Being Complied Controlled blasting is being done with the use of delay detonators and blasting operations are being conducted in day time only. NONELs are being used to control ground vibrations and noise. Measures like optimum charge per delay, adequate free-face, sequence of blasting, proper stemming, proper drilling and blasting pattern, etc., are being taken to reduce the ground vibrations to arrest fly rock and boulders.</p>	<p>Date: 30/11/2024</p>
24	AIR QUALITY MONITORING AND PRESERVATION	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.	
		<p>PPs Submission: Being Complied The project authorities are being regularly repairing and tarring of roads used for mineral transportation. SCCL has taken up extensive plantation in the vacant lands and all along the approach roads to the RG OC-III Expansion Project. Efforts are being made to use mix of native species grown in SCCL nurseries for ensuring better survival rate. Native fruit bearing/medicinal value trees like Neem, Amla, Maredu, Bhel, Jamun, Inga dulcii, Ficus benghalensis, F. religiosa, F. mollis, Wood apple, Bamboo, Sima rouba, hardwickia, Terminalia bellarica and in vacant patches fruit bearing species like Mango, Guava, Jackfruit, Sapota, etc., are being planted in the final dump yard. So far plantation was taken up in 459.05 ha of project area. Avenue plantation with native species was already raised all along the approach roads to the project covering a distance of 14.5 KM. At some places already plantation is present besides the existing avenue plantation and acts as 3- tier greenbelt. Photographs showing the existing avenue plantation along the approach roads. However, The existing greenbelt along 14.5 km length of approach roads is being further strengthened using native species for 3-tier greenbelt development. Accordingly, three tier plantation is being taken up along the following approach roads at a cost of Rs. 38.00 Lakhs: - Along coal corridor road from 5 Incline Junction to Potahana Colony - From Krushi Bhavan via VKP Mine up to Phase-II CHP road.</p>	<p>Date: 30/11/2024</p>
		<p>PPs Submission: Being Complied The project authorities are being regularly repairing and tarring of roads used for mineral transportation. SCCL has taken up extensive plantation in the vacant lands and all along the approach roads to the RG OC-III Expansion Project. Efforts are being made to use mix of native species grown in SCCL nurseries for ensuring better survival rate. Native fruit bearing/medicinal value trees like Neem, Amla, Maredu, Bhel, Jamun, Inga dulcii, Ficus benghalensis, F. religiosa, F. mollis, Wood apple, Bamboo, Sima rouba, hardwickia, Terminalia bellarica and in vacant patches fruit bearing species like Mango, Guava, Jackfruit, Sapota, etc., are being planted in the final dump yard. So far plantation was taken up in 459.05 ha of project area. Avenue plantation with native species was already raised all along the approach roads to the project covering a distance of 14.5 KM. At some places already plantation is present besides the existing avenue plantation and acts as 3- tier greenbelt. Photographs showing the existing avenue plantation along the approach roads. However, The existing greenbelt along 14.5 km length of approach roads is being further strengthened using native species for 3-tier greenbelt development. Accordingly, three tier plantation is being taken up along the following approach roads at a cost of Rs. 38.00 Lakhs: - Along coal corridor road from 5 Incline Junction to Potahana Colony - From Krushi Bhavan via VKP Mine up to Phase-II CHP road.</p>	<p>Date: 30/11/2024</p>
25	MINING PLAN	OB shall be stacked at one earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28o. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its concerned Regional office on yearly basis.	
		<p>PPs Submission: Being Complied OB is being stacked as per EC conditions. The ultimate slope of the dump is being maintained 28o. Monitoring and management of existing reclaimed dumpsites will be continued until the vegetation</p>	<p>Date: 30/11/2024</p>

<p>becomes self-sustaining. Compliance status is being submitted to the Ministry of Environment, Forest and Climate Change and its concerned Regional office on half yearly basis.</p>		
26	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>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, Forest and climate change and the Central Pollution Control Board quarterly within one month of monitoring.</p>
<p>PPs Submission: Being Complied Monitoring of ground water levels and quality is being carried out through approved agency. The ground water level is being monitored four times in a year in pre-monsoon. Monsoon, post-monsoon and winter. Water quality is being regularly monitored in the month of May. Monitoring is being carried out by establishing network of existing wells and three nos. of piezometric bore holes drilled around the project. The monitored data is submitted along with six monthly Compliance report.</p>		<p>Date: 30/11/2024</p>
27	<p>Risk Mitigation and Disaster Management</p>	<p>There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.</p>
<p>PPs Submission: Being Complied Necessary arrangements have been made to arrest overflow of OB into the seasonal Nallah and the agricultural fields. Massive plantation of native species was done in the area between the seasonal nallah and the project.</p>		<p>Date: 30/11/2024</p>
28	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<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>PPs Submission: Complied Toe wall is constructed for the dump with a height of 1.5 m to 2.0 m as per mining plan.</p>		<p>Date: 30/11/2024</p>
29	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Drills shall be wet operated.</p>
<p>PPs Submission: Complied All the drills are being operated with wet drilling arrangements.</p>		<p>Date: 30/11/2024</p>
30	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.</p>
<p>PPs Submission: Being Complied Instead of bag filters, continuous mist spray arrangements were provided at all crushers and coal transfer points for effective dust suppression. Also, mobile mist spray (fog canaon) dust fighters 5 numbers installed in the CHP for controlling air borne dust.</p>		<p>Date: 30/11/2024</p>
31	<p>LAND RECLAMATION</p>	<p>Compensatory Ecological and Restoration of waste land , other degraded land and OB dumps in lieu of breaking open the land be carried out.</p>
<p>PPs Submission: Being Complied The restoration and reclamation plan envisaged in the approved EMP is being implemented. The</p>		<p>Date:</p>

land diverted for project is being used in a productive and sustainable manner so far, 166.46 M.Cu.m of OB is backfilled in 521.14 ha. of de-coaled void area. So far 11, 49,500 numbers of plants are planted in an area of 495.05 ha of waste land other degraded land and OB dumps will be done.		30/11/2024
32	LAND RECLAMATION	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
PPs Submission: Being Complied The mining activities are planned in sustainable manner and OB will be dumped on permitted dumping area only.		Date: 30/11/2024
33	Corporate Environmental Responsibility	Land ousters shall be compensated as per the norms laid out RandR Policy of CIL or the National RandR Policy or RandR Policy of the State Government whichever is higher.
PPs Submission: Complied Agreed upon		Date: 30/11/2024
34	LAND RECLAMATION	A Progressive afforestation plan shall be implemented covering an area of 1260. 71 Ha at the end of mining, which includes reclaimed external OB dump area (414.80 ha), Internal OB dump area (365.98 ha), along roads and Green belt (166.29 ha), and in township located out side the lease by planting native species in consultation with the local DFO/ Agriculture department. The density of the tress shall be around 2500 plants per ha, Massive plantation shall be carried out in open space in and round the mine and a 3 tier avenue plantation along the main approach roads to the mine
PPs Submission: Being Complied Native fruit bearing/medicinal value trees like Neem, Amla, Maredu, Bhel, Jamun, Inga dulcii, Ficus benghalensis, F. religiosa, F. mollis, Wood apple, Bamboo, Sima rouba, hardwickia, Terminalia bellarica and in vacant patches fruit bearing species like Mango, Guava, Jackfruit, Sapota, etc., are being planted in the final dump yard. So far plantation was taken up in 459.05 ha of project area. Avenue plantation with native species was already raised all along the approach roads to the project covering a distance of 14.5 KM. At some places already plantation is present besides the existing avenue plantation and acts as 3- tier greenbelt. Photographs showing the existing avenue plantation along the approach roads. However, The existing greenbelt along 14.5 km length of approach roads is being further strengthened using native species for 3-tier greenbelt development. Accordingly, three tier plantation is being taken up along the following approach roads at a cost of Rs. 38.00 Lakhs: - Along coal corridor road from 5 Incline Junction to Potahana Colony - From Krushi Bhavan via VKP Mine up to Phase-II CHP road.		Date: 30/11/2024
35	LAND RECLAMATION	Of the total query area of 1113.30 ha. the backfilled query area of 365.98 ha shall be reclaimed with plantation and avoid of 747.72 ha at a depth of 35 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation afforestation by planting native plant species in consultation with the local DFO/ Agriculture Department. The density of the tress shall be round 2500 plants per ha.
PPs Submission: Being Complied Presently mining activities is in a progress. At final stage of the project 495.05 ha of the quarry area will be back filled and reclaimed with plantation, proposed void of 747.72 ha at a depth 35m will be converted in to a water body. The upper benches will be terraced and stabilized with native species and the density of the trees is 2500 plants per ha. Progressive mine closure plan will be implemented as per the EMP and progress of the same will be submitted to Regional Office, MoEFandCC on half yearly basis.		Date: 30/11/2024
36	LAND RECLAMATION	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable

		manner.
<p>PPs Submission: Being Complied Progressive reclamation of the degraded land in the project is being taken up in the project as per the phase-wise restoration and reclamation program envisaged in the approved EIA/EMP. Accordingly, plantation has been done on the stabilized portion of external overburden dump and vacant lands in the project area. So far, 166.46 M.Cu.m of OB is backfilled in 506.36 ha. of de-coaled void area. Total progressive plantation up to 2023-24 is 495.05 ha covering 166.20 ha. on external dump, 54.85 ha. in the back filling area and 166.46 ha. as block plantation. Plantation will be done as per the progress of external dump and stabilization of back filled area. The schedule of plantation as per the FR / MCP / EIA/EMP and plantation taken up so far are furnished as Annexure-IV. Photographs showing plantation taken up on the stabilized portion of external OB dump are also shown in Annexure-IV.</p>		<p>Date: 30/11/2024</p>
37	Human Health Environment	Besides carrying out regular periodic health check-up of their workers, 10 percentage of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through a specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.
<p>PPs Submission: Complied Regular health check up for all employees is being done once in 5 years for the age group below 45 years and once in 3 years for the age group above 45 years. Through SCCL doctors, who are qualified as per ILO. Records are being maintained.</p>		<p>Date: 30/11/2024</p>
38	WATER QUALITY MONITORING AND PRESERVATION	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
<p>PPs Submission: Being Complied Artificial ground water recharge measures for augmentation of ground water is being carried out by constructing 120 Numbers of rain harvesting pits in and around the Ramagundam region. Also a summer storage tank is made in area of 25.38 acres in Ramagundam Area-II.</p>		<p>Date: 30/11/2024</p>
39	WATER QUALITY MONITORING AND PRESERVATION	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP waste water.
<p>PPs Submission: Complied Sewage generated in the Maha kavi Pothana colony is being treated in STP of 2.0 MLD capacity and is in operation. A 2 MLD capacity STP is provided in SCCLs colony for treating colony effluent. Two ETPs are also provided one at CHP and another at Base Workshop.</p>		<p>Date: 30/11/2024</p>
40	Corporate Environmental Responsibility	Corporate environment responsibility: a) The company shall have a well laid down environment policy approved by the board of directors b) The environment policy shall prescribe for standard operating process/procedures to bring into focus any infringement /deviation/violation of the environmental or forest norms/conditions c) The hierarchical system or administrative order of the company to deal with environmental issues for the ensuring compliance with the EC conditions shall be furnished d) To have proper check and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the board directors of the company and /or share holders or stake holders at large.
<p>PPs Submission: Complied</p>		<p>Date:</p>

	<p>SCCL has been laid down environmental policy approved by the Board of Directors. The Environmental policy of SCCL is available in the company web site www.scclmines.com. The status of compliance of EC/FC is being appraised to SCCL Board of Directors once in three months as per the company act, 2013 by the project authority. M/S SCCL has a well defined hierarchical system to deal with environmental issues and Complied Environment Clearance conditions. Environmental cell with qualified personnel headed by General Manager (Env) is established to monitor and guide in implementing the environmental safeguards. An area level environmental cell headed a qualified environmental officer is established and functioning under the control of area General Manager</p>	30/11/2024
41	MISCELLANEOUS	<p>For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF andCC and its concerned Regional</p>
	<p>PPs Submission: Being Complied Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is carried out during 2022 in 1:50,000 scale for monitoring land use pattern and report is submitted to MoEFandCC/ Regional Office (RO) at Chennai vide Ref.No. RGM/ENV/03/2023/49, dated 24.05.2023.</p>	<p>Date: 30/11/2024</p>
42	MINING PLAN	<p>A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change within 6 months of grant of Environmental Clearance</p>
	<p>PPs Submission: Complied Mining Plan and Mine Closure Plan of the project was approved by the Ministry of Coal, GoI, vide Lr. No.13016/3/2009-CA-II dt.19th Nov, 2014. SCCL opened an Escrow account (Fixed Deposit) with Sate Bank of Hyderabad, Industrial Finance Branch, and Hyderabad under the title of Mine-Closure Escrow A/c No.41794075498 and agreement is made on 13.03.2023 with Coal controllers organization Bank. Progressive mine closure activities are being carried out as per the approved mining plan/mine closure plan and so far an amount of Rs.121.56 crores has been deposited in the Escrow account. A copy of the Escrow account agreement along with SBI account statements showing the amount deposited is furnished as Annexure-V.</p>	<p>Date: 30/11/2024</p>
43	Corporate Environmental Responsibility	<p>The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine</p>
	<p>PPs Submission: Being Complied The CSR activities are being taken up in consultation with local villagers and basing on the representations received the local village heads. The details requisitions received, village- wise CSR activities taken up and the utilization certificates issued by village authorities are enclosed as Annexure-VI.</p>	<p>Date: 30/11/2024</p>
44	Corporate Environmental Responsibility	<p>Corporate environment responsibility: a) The company shall have a well laid down environment policy approved by the board of directors b) The environment policy shall prescribe for standard operating process/procedures to bring into focus any infringement /deviation/violation of the environmental or forest norms/conditions c) The hierarchical system or administrative order of the company to deal with environmental issues for the ensuring compliance with the EC conditions shall be furnished d) To have proper check and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the board directors of the company and /or share holders or stake holders at large.</p>

<p>PPs Submission: Complied SCCL has been laid down environmental policy approved by the Board of Directors. The Environmental policy of SCCL is available in the company web site www.scclmines.com. The status of compliance of EC/FC is being appraised to SCCL Board of Directors once in three months as per the company act, 2013 by the project authority. M/S SCCL has a well defined hierarchical system to deal with environmental issues and Complied Environment Clearance conditions. Environmental cell with qualified personnel headed by General Manager (Env) is established to monitor and guide in implementing the environmental safeguards. An area level environmental cell headed a qualified environmental officer is established and functioning under the control of area General Manager</p>		<p>Date: 30/11/2024</p>
45	MISCELLANEOUS	Explore the possibility to reduce the SPM from other mines in the vicinity. The proponent should adopt the mechanized loading system/closed transportation.
<p>PPs Submission: Being Complied Greenbelt developed around the mining area, which reduces SPM from mines m Mechanized loading system adopted while loading coal into trucks, and coal trucks were optimally loaded and completely covered by tarpaulins and same is being ensured at SCCL check post and surprise checks are being done by security personnel at regular interval.</p>		<p>Date: 30/11/2024</p>
<p>General Conditions</p>		
Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	Data on ambient air quality (PM10, PM25, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.
<p>PPs Submission: Being Complied Post project environmental monitoring work is carried out through MoEFandCC approved third party laboratory M/s EPTRI, Hyderabad The data/reports on ambient air quality (PM10, PM25, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to Regional Office of Telangana State Pollution Control Board , Regional office of MoEFand CC along with six monthly compliance report .</p>		<p>Date: 30/11/2024</p>
2	MINING PLAN	No change in the calendar plan of production for quantum of mineral coal shall be made.
<p>PPs Submission: Being Complied The production details of the calendar plan production for quantum of coal to this project are furnished here under. Year Consented Quantity (MTPA) Quantity Excavated (MTPA) 2015-16 6.30(Normative) 6.80(Peak) 5.00 2016-17 6.30(Normative) 6.80(Peak) 6.014 2017-18 6.30(Normative) 6.80(Peak) 6.80 2018-19 6.30(Normative) 6.80(Peak) 6.354 2019-20 6.30(Normative) 6.80(Peak) 6.79 2020-21 6.30(Normative) 8.16(Peak) 7.44 2021-22 6.30(Normative) 8.16(Peak) 8.15 2022-23 6.30(Normative) 8.16(Peak) 8.15 2023-24 6.30(Normative) 9.52(Peak) 9.50 Production coal and OB from the mine not exceeded the limit prescribed in the EC.</p>		<p>Date: 30/11/2024</p>
<p>PPs Submission: Being Complied The production details of the calendar plan production for quantum of coal to this project are furnished here under. Year Consented Quantity (MTPA) Quantity Excavated (MTPA) 2015-16 6.30(Normative) 6.80(Peak) 5.00 2016-17 6.30(Normative) 6.80(Peak) 6.014 2017-18</p>		<p>Date: 30/11/2024</p>

<p>6.30(Normative) 6.80(Peak) 6.80 2018-19 6.30(Normative) 6.80(Peak) 6.354 2019-20 6.30(Normative) 6.80(Peak) 6.79 2020-21 6.30(Normative) 8.16(Peak) 7.44 2021-22 6.30(Normative) 8.16(Peak) 8.15 2022-23 6.30(Normative) 8.16(Peak) 8.15 2023-24 6.30(Normative) 9.52(Peak) 9.50 Production coal and OB from the mine not exceeded the limit prescribed in the EC.</p>		
<p>PPs Submission: Being Complied The production details of the calendar plan production for quantum of coal to this project are furnished here under. Year Consented Quantity (MTPA) Quantity Excavated (MTPA) 2015-16 6.30(Normative) 6.80(Peak) 5.00 2016-17 6.30(Normative) 6.80(Peak) 6.014 2017-18 6.30(Normative) 6.80(Peak) 6.80 2018-19 6.30(Normative) 6.80(Peak) 6.354 2019-20 6.30(Normative) 6.80(Peak) 6.79 2020-21 6.30(Normative) 8.16(Peak) 7.44 2021-22 6.30(Normative) 8.16(Peak) 8.15 2022-23 6.30(Normative) 8.16(Peak) 8.15 2023-24 6.30(Normative) 9.52(Peak) 9.50 Production coal and OB from the mine not exceeded the limit prescribed in the EC.</p>		<p>Date: 30/11/2024</p>
3	MISCELLANEOUS	<p>Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.</p>
<p>PPs Submission: Being Complied Monitoring and analysis is being carried out through 3rd Party external agency i.e., Environment Protection Training and Research Institute (EPTRI), Hyderabad which is approved by MoEF and accredited by NABET. Regional laboratory is also established by EPTRI at Ramagundam.</p>		<p>Date: 30/11/2024</p>
4	AIR QUALITY MONITORING AND PRESERVATION	<p>Four ambient quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM25, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg,As, Ni, Cd, Cr, etc. carried out at least once in six months.</p>
<p>PPs Submission: Being Complied Ambient air quality for the parameters such as PM10, PM25, SO2 and NOx are being monitored through MoEFandCC approved third party at four locations in Core zone and 4 locations in buffer zone in consultation with the TSPCB Regional office, Ramagundam by considering meteorological data, topographical features and environmentally and ecologically sensitive targets. One continuous online AAQM station is also established at summer storage tank and the same is linked to the server of TSPCB. Monitoring of heavy metals such as Hg,As, Ni, Cd, Cr, etc. will be carried out at least once in six months through third party laboratory. The monitored data shows that values are within the limit. The reports on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other is being regularly submitted to Regional Office of Telangana State Pollution Control Board , Regional office, Ramagundam and MoEFand CC on half yearly basis.</p>		<p>Date: 30/11/2024</p>
5	MINING PLAN	<p>No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest and Climate Change.</p>
<p>PPs Submission: Being Complied There is no change in mining technology and scope of working. Approval will be taken from MoEFand CC, if any change in Technology and scope of work.</p>		<p>Date: 30/11/2024</p>
6	AIR QUALITY MONITORING AND PRESERVATION	<p>Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.</p>

<p>PPs Submission: Being Complied Vehicular emissions are being kept under control and they are regularly monitored. The latest vehicular emissions test was conducted during the period from 14.08.2024 to 24.08.2024. All the vehicles engaged in mining and allied activities are being operated after obtaining PUC certificate from the authorized pollution testing center.</p>		<p>Date: 30/11/2024</p>
7	Noise Monitoring & Prevention	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with ear plugs/muffs.
<p>PPs Submission: Being Complied Adequate noise control measures are being taken and noise levels kept below 85 dB the work environment. Sound proof AC cabins are provided in HEMM. The periodic planned preventive maintenance and engine tuning of HEMM and other transport vehicles is being carried out at regular intervals. Plantation is being taken up every year. The persons engaged in high noise work environment such as drilling and blasting operations are being provided with ear plugs. Noise levels are being monitored through MoEFandCC approved third party laboratory.</p>		<p>Date: 30/11/2024</p>
8	AIR QUALITY MONITORING AND PRESERVATION	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
<p>PPs Submission: Being Complied Water pumped out from the mine is being used for water spraying, washing of machinery, fire fighting and plantation etc. Two ETPs are also provided one at CHP and another at Base Workshop. The efficacy of the system is being monitored through fortnight sampling and analysis by external agency (Environment Protection Training and Research Institute) having MoEF recognized and NABL accredited laboratory.</p>		<p>Date: 30/11/2024</p>
9	Human Health Environment	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects
<p>PPs Submission: Being Complied Personnel working in dusty areas are being provided protective equipment and are in use. Training and information on safety and health aspects are being given through Internal Safety Organization and Mine Vocational Training Centers and OHS Doctors.</p>		<p>Date: 30/11/2024</p>
10	MINING PLAN	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Officer.
<p>PPs Submission: Complied The funds earmarked for the environmental safeguards are being used for environmental protection measures as prescribed in the EC Year wise expenditure is being reported to the ministry and Regional Office of MoEFandCC in HYMR and MC reports</p>		<p>Date: 30/11/2024</p>
11	MISCELLANEOUS	The clearance letter shall be uploaded on the companys website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM10, PM25, SO2 and NOx (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project

		premises and mine office and in corporate office and on companys website.
PPs Submission: Complied The Environmental clearance letter has been uploaded on the companies website. www.scclmines.com		Date: 30/11/2024
12	MISCELLANEOUS	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, once 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, Forest and Climate Change at http://envfor.nic.in .
PPs Submission: Complied The advertisement regarding grant of Environmental Clearance to this Project was published in two local news papers. The Hindu (English) and Sakshi (Telugu) on 28.05.2015. A copy of the Environmental clearance was sent to Telengana State Pollution Control Board.(TSPCB)		Date: 30/11/2024
13	MISCELLANEOUS	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
PPs Submission: Complied Project authorities extended full co-operation to the Regional Office during the monitoring by furnishing the requisite data/information/data.		Date: 30/11/2024
14	Human Health Environment	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
PPs Submission: Being Complied Regular occupational health surveillance program for all employees is being carried out once in five years for the age group below 45 years and once in 3 years for the age group above 45 years through SCCL Doctors who are qualified as per ILO. Records are being maintained.		Date: 30/11/2024
15	MISCELLANEOUS	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.
PPs Submission: Complied A separate Environment management cell comprising of suitable qualified personnel has been set-up and effectively functioning with direct supervision of Sr.Manager. The Environment Management Cell at RG OCP-III (EP) Phase-II Mine under the control of Project Officer, the other members are Project Engineer, DGM, SE(Stores), SE(Drills), Safety Officer, Add.Mgr(OB), Dy.Mgr(Coal), Dy.SSO, Dy.GM(Civil), SE (BWS), SE (CHP), and Env. Officer OCP-III. The Area Forest officer, Area Estates officer and area Environmental officer also participate in decision making and implementation of Environmental related issues of this project.		Date: 30/11/2024
16	MISCELLANEOUS	A copy of the environmental clearance letter shall be marked to concern Panchayat/Zilla Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the

		proposal. A copy of the clearance letter shall also be displayed on companys website.
<p>PPs Submission: Complied A copy of the Environmental Clearance letter was sent to all Gram Panchayat Office, Ramagundam Municipal Office and local (NGO) and obtained acknowledgement and also kept in company website.</p>		Date: 30/11/2024
17	MISCELLANEOUS	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Offices of CPCB and the SPCB.
<p>PPs Submission: Being Complied The six months compliance reports on status of compliance on the stipulated environment clearance condition are being submitted regularly to the respective Regional Office of MoEF andCC and the TSPCB.</p>		Date: 30/11/2024
18	MISCELLANEOUS	The Environmental statement for each financial year ending 31 March in Form-V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the companys website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEFandCC by e-mail.
<p>PPs Submission: Complied The Environmental statement for each financial year ending 31 March 2024 in Form-V is being submitted vide ref no RG-II/ENV/3B/2024/124 dated 19.09.2024 by the project authority to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, and also uploaded on the companies website along with the status of compliance of EC conditions.</p>		Date: 30/11/2024
19	MISCELLANEOUS	The proponent shall set up an environment audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.
<p>PPs Submission: Complied A separate Environment Management Committee was formed and functioning at RG OCP-III Expansion Phase-II project under the control of Project Officer with Project Engineer, SE (Stores), SE (Drills), Safety Officer, Add.Mgr (OB), Dy.Mgr (Coal), Dy.SSO, Dy.GM (Civil), SE (BWS), SE (CHP), and Environment Officer of the project. The Area Forest officer, Area Estates officer and Area Environmental officer also participating in decision making and implementation of Environmental related issues of the project. In addition, an Environment Audit Cell was also formed at the area level with responsibility and accountability vide ref No. RG2/GMO/G/009/520, dated 13.09.2019. The members of the Environment Audit Committee include SO to GM, Area Engineer, Area Civil Engineer and Area Environment Officer.</p>		Date: 30/11/2024
20	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data and failure to comply with any other conditions mentioned above may result in withdrawal of clearance and attract action under the provisions of environment (protection) Act-1986.
<p>PPs Submission: Agreed to Comply The condition is noted and assured to abide the condition</p>		Date: 30/11/2024
21	MISCELLANEOUS	The ministry or any other competent authority may stipulate any further condition for environmental protection.

<p>PPs Submission: Complied The condition is noted and assured to abide the condition.</p>		<p>Date: 30/11/2024</p>
22	MISCELLANEOUS	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
<p>PPs Submission: Agreed to Comply The condition is noted and assured to abide the condition</p>		<p>Date: 30/11/2024</p>
23	MISCELLANEOUS	Any appeal against this environmental clearance shall lie with the National Green Tribunal if preferred within a period of 30 days as prescribed under Section-16 of the National Green Tribunal Act-2010.
<p>PPs Submission: Agreed to Comply No appeal has been preferred with 30 days as stipulated and thus the compliance does not arise now.</p>		<p>Date: 30/11/2024</p>
24	MISCELLANEOUS	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collectors Office/Tahsildars Office for 30 days.
<p>PPs Submission: Complied A copy of the environmental clearance letter was displayed on the website of the concerned State Pollution Control Board. The EC letter was displayed at the Regional Office, District Industry Sector and Collectors Office/Tahsildars Office for 30 days.</p>		<p>Date: 30/11/2024</p>
25	MISCELLANEOUS	The above conditions will be enforced inter-alia, under the provision of water (prevention and control of pollution) Act-1974 and the Air (prevention and control of pollution) Act-1981, the environment protection Act-1986, and the public liability insurance Act-1991 along with under amendments and Rules and any other orders passed by the Honorable Supreme Court of India/High Courts and any other Court of law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, examination of ground water and surface water, and occupational and other diseases due to the mining operations.
<p>PPs Submission: Being Complied The unit has obtained CFO from State Pollution Control Board i.e. TSPCB vide Order No: CFO order no 20234688097 dated 19.10.2023 valid up to 31.03.2026 for 9.52 MTPA (peak) Public Liability Insurance has been obtained vide policy no. 550200492410000034 which is valid up to 29.04.2025.</p>		<p>Date: 30/11/2024</p>
26	MISCELLANEOUS	The EC supersedes the earlier EC vide letter no.J-11015/267/2007-1A-II (M) dated 31.07.2008 for production capacity of 4.30 MTPA (Normative and 5.00 MTPA (Peak) in an ML Area of 1398.81 ha.
<p>PPs Submission: Agreed to Comply Agreed upon.</p>		<p>Date: 30/11/2024</p>
27	MISCELLANEOUS	The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The ministry any other competent authority may stipulate any further condition for environment protection.

PPs Submission: Being Complied
Requisite clearance/approval has been obtained

Date:
30/11/2024

28

MISCELLANEOUS

The commitment made by the proponent to the issue raised during public hearing shall be implemented by the proponent.

PPs Submission: Agreed to Comply
The condition is noted and assured to abide the condition.

Date:
30/11/2024

Visit Remarks

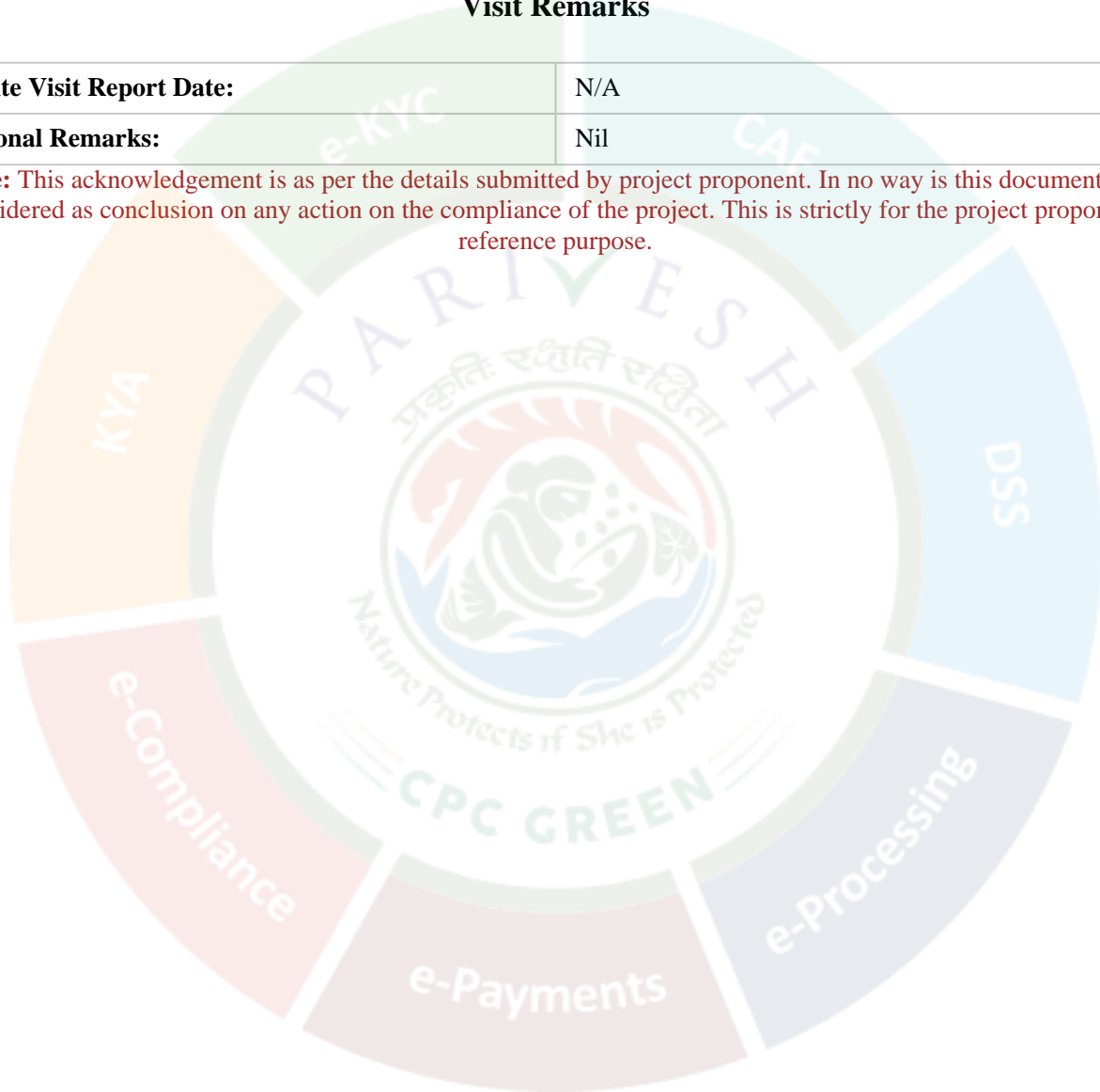
Last Site Visit Report Date:

N/A

Additional Remarks:

Nil

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.



PART –II

1. Production Details

Sl. No	Year	Coal (in MTPA)		Overburden (M.Cu.m)	
		As per EC	Actual	As per Mining plan	Actual
1	2018- 2019	6.80	6.35	53.21	44.29
2	2019-2020	6.80	6.80	61.76	51.60
3	2020- 2021	8.16	7.45	41.99	38.51
4	2021- 2022	8.16	8.15	66.55	49.92
5	2022- 2023	8.16	8.16	71.94	45.92
6	2023-2024	9.52	9.50	71.94	46.93
7	2024-2025 (Up to sep-24)	9.52	3.67	71.93	13.57

2. Topsoil Management (in L.Cu.m) 31.03.2024.

1	Total Topsoil(From 01.04.2018) Prop: 3.20 M.Cum. Stock yard: 0.55M.Cum.	:	3.75 Mm ³ (Bank Volume)
2	Topsoil removed so far	:	3.07 Mm ³
3	Topsoil stored in temporary stockyard	:	0.55 Mm ³
4	Topsoil spread on Dumps	:	2.04 Mm ³
5	Topsoil removed in last six moths	:	0.31Mm ³

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

1	Total Overburden (From 01.04.2018)	:	841.32 Mm ³ (including Top Soil)			
2	Total OB removed since inception	:	290.84 Mm ³ (including Top Soil)			
3	Total OB removed during last six months	:	13.57 Mm ³ (including Top Soil)			
4	Details of OB dumps	:	Area (in Ha)	Quantity in (M.Cu.M)	Height (m)	Overall slope
	External OB Dump	:	393.39	124.38	120	23 deg.
5	Details of Internal dump (Backfilling)	:	506.36	166.46	120 (w.r.t. Ground level)	22 deg

4. Plantation

1	No of plants planted during last Six months from April 24 to September-2024	100000
2	Area covered in Ha	40
3	Expenditure incurred in Rs. lakhs	11.96 Lakhs
4	Total area brought under plantation so far in Ha	459.05
5	Species of plants planted	Dendrocalamus strictus, Hardwickia, Bendorcalmus Bamboo, Albezzia odoretissima, Aegle marmelos, Ficus bengalensis, Ficus religiosa, Delonix regia, Acacia nilotica etc.,
6	Seeds sown so far	Glyricidia, Stylosanthes hamata, Sesbania, Sunnhemp, Babul, Red grass

Note: Plantation plan is enclosed with the report.

5. Water Balance Statement

Sl	Description	Quantity in KLD
1	Average quantity of water pumped out of the mine	19000
2	Water used for drinking/bathing and other industrial requirement(Domestic)	500
3	Water used for dust suppression and washing HEMM	10500
4	CHP utilization and Firefighting	1000
5	Water used for plantation	500
6	Others	500
7	Total utilization in the mine	13000
8	Point of discharge	6000
9	Discharge Consent from TSPCB	6094

6. Soil Erosion Control Measures

1	Garland drains	(6.50 Km +4.76 Km)=11.26 Kms
2	Settling ponds	4 numbers

7. Micro-meteorological Monitoring

Micro-meteorological station was installed at **GM OFFICE**, RG-II:

The summary of the Monitoring from 01.04.2024 to 30.09.2024 as follows:

Summary of Micro-Meteorological data generated for the entire study period (April, 2024 – September, 2024)

S.No	Parameter (s)	Min	Max	Mean
1.	Temperature (°C)	20.0	43.5	29.7
2.	Wind Speed (m/s)	Calm 13.37%	9.0	1.2
3.	Relative Humidity (%)	18.2	99.9	50.8
4.	Predominant Wind direction for the study period	South West (SW), followed by West (W)		
5.	Total Rainfall (mm)	1296 mm		

8. Ambient Air Quality Monitoring

Parameters:

In accordance with MoEF Notification, GSR-742 (E), dt. 25.09.2000 and National Ambient Air Quality Standards, the concentration of Suspended Particulate Matter (PM₁₀ and PM_{2.5}), Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NO_x) is being monitored at work zone locations and also in nearby villages to assess the impact of mining operations on surrounding habitation.

Respirable Dust Sampler is used for monitoring of PM₁₀, SO₂ and NO_x and Ambient Fine Dust Sampler is being used for monitoring of PM_{2.5}. SCCL is carrying out post-project environmental monitoring through EPTRI, Hyderabad, a CPCB recognized and NABL accredited laboratory. EPTRI has also established laboratories in SCCL mining areas for analyzing critical parameters in the field.

Frequency of Monitoring:

Air quality monitoring is being carried out at a frequency of once in a fortnight (24 hourly sampling) at the identified locations near the dust generating sources. The results are enclosed in Annexure-I.

Air Monitoring Locations:

S.No.	Station Code	Name of the Stations	Latitude	Longitude
CORE ZONE				
1	CA4	RG OC III Krushibavan	N 18°41' 35.8"	E 79° 32' 22.5"
2	CA5	RG OCP III Base Workshop	N 18°42' 38.4"	E 79° 30' 55.3"
3	CA6	Off Loading Camp (P C Patel Company)	N 18°43' 44.0"	E 79° 31' 30.7"
4	CA7	OCP III CHP	N 18°41' 53.4"	E 79° 30' 36.6"
BUFFER ZONE				
1	BA1	Singireddypalli	N 18° 43' 36.92"	E 79° 34' 18.66"
2	BA2	Lakshmipuram	N 18° 42' 59.86"	E 79° 29' 47.33"
3	BA3	Allur Village	N 18° 40' 48.41"	E 79° 31' 48.22"
4	BA4	Penchkalpet	N 18° 41' 22.75"	E 79° 30' 54.56"

Monitoring data of AAQM:

The summary of the air quality monitoring data from 01.04.2024 to 30.09.2024 as follows:

Location	Direction and Distancen in KM (From Krishi bavan)	PM10			
		Min.	Max.	98%tile	Standard
RG OPEN CAST –III EXPANSION –II PROJECT (KRUSHIBHAVAN) (CA1)	0	120.0	237.0	232.4	250
RG OPEN CAST –III EXPANSION –II PROJECT (Base Workshop (CA2)	N W---2.98	108.0	209.0	205.5	250
RG OPEN CAST –III EXPANSION –II PROJECT (Stores) (CA3)	N-W----2.5	104.0	208.0	205.1	250
RG OPEN CAST –III EXPANSION –II PROJECT CHP (CA4)	N-W----3.72	122.0	224.0	222.9	250
Singireddypalli Village (BA1)	N-W----5.04	50.0	86.0	85.1	100
Laxmipuram Village (BA2)	N E---3.0	51.0	88.0	87.8	100
Alluru Village (BA3)	SW—2.0	49.0	91.0	90.3	100
Penchkalpet (BA4)	SW-3.40	59.0	85.0	84.8	100
Location	Direction and Distancen in KM	PM2.5			
		Min.	Max.	98%tile	STD

	(From Krushi bavan				
RG OPEN CAST –III EXPANSION –II PROJECT (KRUSHIBHAVAN) (CA1)	0	34.4	64.2	63.0	-
RG OPEN CAST –III EXPANSION –II PROJECT (Base Workshop (CA2)	N W---2.98	39.3	70.4	70.1	--
RG OPEN CAST –III EXPANSION –II PROJECT (Stores) (CA3)	N-W----2.5	35.0	64.9	63.8	-
RG OPEN CAST –III EXPANSION –II PROJECT CHP (CA4)	N-W----3.72	30.0	75.5	74.8	-
<i>Singireddypalli Village (BA1)</i>	N-W----5.04	26.8	46.1	45.6	60
<i>Laxmipuram Village (BA2)</i>	N E---3.0	27.5	47.2	46.6	60
<i>Alluru Village (BA3)</i>	SW—2.0	26.3	43.1	42.2	60
<i>Penchkalpet (BA4)</i>	SW-3.40	29.1	54.7	53.6	60
Location	Direction and Distancen in KM (From Krushi bavan	SO2			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT (KRUSHIBHAVAN) (CA1)	0	9.7	23.4	22.8	120
<i>RG OPEN CAST –III EXPANSION –II PROJECT (Base Workshop (CA2)</i>	N W---2.98	9.0	11.9	11.7	120
RG OPEN CAST –III EXPANSION –II PROJECT (Stores) (CA3)	N-W----2.5	9.1	19.6	19.6	120
RG OPEN CAST –III EXPANSION –II PROJECT CHP (CA4)	N-W----3.72	8.8	24.4	24.0	120
<i>Singireddypalli Village (BA1)</i>	N-W----5.04	8.1	12.6	12.1	80
<i>Laxmipuram Village (BA2)</i>	N E---3.0	8.3	21.6	21.2	80
<i>Alluru Village (BA3)</i>	SW—2.0	8.0	19.1	19.1	80
<i>Penchkalpet (BA4)</i>	SW-3.40	7.7	15.1	14.5	80
Location		NO2			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT (KRUSHIBHAVAN) (CA1)	0	12.6	28.7	28.1	120
RG OPEN CAST –III	N W---2.98	12.7	14.1	14.0	120

EXPANSION –II PROJECT (Base Workshop (CA2))					
RG OPEN CAST –III EXPANSION –II PROJECT (Stores) (CA3)	N-W----2.5	12.2	25.9	25.7	120
RG OPEN CAST –III EXPANSION –II PROJECT CHP (CA4)	N-W----3.72	13.2	30.1	29.7	120
<i>Singireddypalli Village (BA1)</i>	N-W----5.04	12.4	18.5	17.8	80
<i>Laxmipuram Village (BA2)</i>	N E---3.0	12.0	26.5	26.1	80
<i>Alluru Village (BA3)</i>	SW—2.0	11.5	25.7	25.7	80
<i>Penchkalpet (BA4)</i>	SW-3.40	12.0	21.2	20.7	80

Air Pollution Control Measures:

- Water spraying lines are laid along the conveyor belt, haul roads and at coal face. 2 No.s of 80KL, 13 No.s of 28KL, 1 No. of 10KL capacity of SCCL and 9 No.s of 20KL capacity (Off-loading) water sprinklers are provided to control the dust emitted from the movement of HEMM.
- Wet Drilling arrangement is provided to all the 16 drills.
- Fixed type water sprinklers are arranged for main haul roads.
- All approach roads are black topped.
- Water spraying arrangement is provided at feeders.
- Mist spaying arrangement is provided at all crushing and transfer points of CHP.
- Controlled blasting is done with the use of Nonels.
- Saplings are planted along conveyor belts, around coal bunkers and coal Dump yards and along coal transportation route.
- Optimum loading of coal in the trucks is being done, tarpaulin is covered after loading while transportation.
- As far as possible all the coal produced will be dispatched immediately.
- Periodical maintenance of all diesel operated machinery is being done to control SO₂ NO_x and CO in the exhaust emissions.
- No burning of coal or wood or cotton waste impregnated with oil and grease is done in the mine premises.
- Plantation was raised in and around the premises of CHP to control the dust.
- Plantation was raised in OB dumps and vacant areas in and around the mine and also in colonies.

9. WATER QUALITY

Selection of Sampling Locations

A total of 4 water samples i.e., 2 samples from surface water and 2 samples from groundwater were collected and analyzed for various physico-chemical and bacteriological parameters.

Surface Water Sampling Locations

Sl. No.	Sampling code	Date of Sampling		Sampling Location	Latitude	Longitude
		1 st Quarter	2 nd Quarter			
1	SW-1	20.03.2024	28.06.2024	Jallaram Vagu Upstream	N 18° 41' 08.96"	E 79° 31' 19.52"
2	SW-2	20.03.2024	28.06.2024	Jallaram Vagu Downstream	N 18° 42' 06.50"	E 79° 33' 34.20"

Groundwater Sampling Locations

Sl. No.	Sampling code	Date of Sampling		Sampling Location	Latitude	Longitude
		1 st Quarter	2 nd Quarter			
1	GW-1	20.03.2024	28.06.2024	Veerlapalli Village	N 18° 43' 01.30"	E 79° 30' 53.60"
2	GW-2	20.03.2024	28.06.2024	Pothana Colony	N 18° 41' 26.20"	E 79° 31' 09.20"

Physico-Chemical and Bacteriological Characteristics of Surface Water
Physico-Chemical and Bacteriological Characteristics of Surface Water as per CPCB Water Quality Criteria

I.No	Parameters	Unit	Test Method	CPCB Water Quality Criteria					RESULT			
				Class A	Class B	Class C	Class D	Class E	SW-1 Jallaram Vagu Upstream		SW-2 Jallaram Vagu Downstream	
									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	7.7	8.0	8.1	8.5
2	Electrical Conductivity	µmhos/cm	2510-B	-	-	-	-	2250 µmhos/cm	1050	2135	765	1120
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	-	5.2	5.0	5.6	5.9
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	-	-	3.4	3.6	3.0	3.2
5	Total Coliforms	MPN/100mL	9221B	50 or less	500 or less	5000 or less	-	-	220	350	220	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	0.11	0.2	0.09	0.13
8	SAR	-	-	-	-	-	-	Less than 26	1.77	1.64	2.15	1.4

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

S. No	Parameters	Unit	Test Method	SW-1		SW-2	
				Jallaram Vagu Upstream	Jallaram Vagu Downstream	1 st Quarter	2 nd Quarter
1.	Colour	Hazen	2120. B	5	5	15	20
2.	Odour	TON	2150. B	No odour observed	No odour observed	No odour observed	No odour observed
3.	Temperature	°C	2550. B	25.2	25.3	25.7	25.6
4.	Turbidity	NTU	2130. B	3.8	4.22	2.8	5.4
5.	Total Dissolved Solids at 180° C	mg/L	2540.C	615	1260	450	660
6.	Total Suspended Solids at 105° C	mg/L	2540. D	14	22	12	14
7.	Chemical Oxygen Demand	mg/L	5220. D	20	28	28	22
8.	Chlorides as Cl ⁻	mg/L	4500-Cl-.B	58	136	40	92
9.	Sulphates as SO ₄ ²⁻	mg/L	4500-SO ₄ ²⁻ .E	47	121	30	44
10.	Fluoride as F ⁻	mg/L	4500-F.C	75	109	74	65
11.	Calcium as Ca	mg/L	3500-Ca.B	3.7	17.2	5.1	4.6
12.	Magnesium as Mg	mg/L	3500-Mg.B	99	220	82	125
13.	Sodium as Na	mg/L	3500-Na.B	152	351	94	124
14.	Potassium as K	mg/L	3500-K.B	1.11	0.95	0.6	0.5
15.	Nitrites as NO ₂	mg/L	4500-NO ₂ .B	3.9	13.9	4.4	10
16.	Nitrates as NO ₃	mg/L	4500-NO ₃ .B	BDL	BDL	BDL	BDL
17.	Total Phosphates	mg/L	4500-P-D	0.24	0.41	BDL	BDL
18.	Ammonical Nitrogen as	mg/L	4500-NH ₃ -C	BDL	BDL	BDL	BDL

S. No	Parameters	Unit	Test Method	SW-1		SW-2	
				Jallaram Vagu Upstream		Jallaram Vagu Downstream	
				1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
	NH ₃ -N						
19.	Phenolic compounds as C ₆ H ₅ OH	mg/L	5530-D	BDL	BDL	BDL	BDL
20.	Oil and 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	275	480	185	310
23.	Fecal Coliforms	MPN/100mL	9221 E	21	33	23	46
24.	Zinc as Zn	mg/L	3120. B	0.22	0.16	0.18	0.15
25.	Iron as Fe	mg/L	3120. B	0.69	0.51	0.59	0.72
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	0.06	BDL	BDL
32.	Selenium as Se	mg/L	3120-B	BDL	BDL	BDL	BDL

**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-1 Veerlapalli Village		GW-2 Pothana Colony	
						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	7.6	8.1	8.0	8.5
4.	Taste	FTN	2160. B	Agreeable	Agreeable	Agree.	Agree.	Agree.	Agree.
5.	Turbidity	NTU	2130. B	1	5	0.1	0.15	0.1	0.1
6.	Total Dissolved Solids at 180° C	mg/L	2540.C	500	2000	633	618	530	746

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-1 Veerlapalli Village		GW-2 Pothana Colony	
						1 st Quarter	2 nd Quarter	1 st Quarter	2 nd Quarter
	Calcium as Ca	mg/L	3500-Ca.B	75	200	82	56	54	66
	Magnesium as Mg	mg/L	3500-Mg.B	30	100	60	38	48	61

	Chlorides as Cl-	mg/L	4500-Cl-.B	250	1000	80	92	99	114
	Sulphates as SO42-	mg/L	4500-SO42-.E	200	400	125	137	60	120
	Fluoride as F-	mg/L	4500-F-.C	1.0	1.5	0.83	1.5	1.07	1.02
	Nitrates as NO3	mg/L	4500-NO3-.B	45	No relaxation	10	15	14	20
	Total Alkalinity as CaCO3	mg/L	2320. B	200	600	350	300	305	420
	Total Hardness as CaCO3	mg/L	2340. C	200	600	452	296	330	415
	Sulphide as H ₂ S	mg/L	4500-S2-FandD	0.05	No relaxation	BDL	BDL	BDL	BDL
	Total Ammonia-N	mg/L	IS 3025 (Part 34)	0.5	No relaxation	BDL	BDL	BDL	BDL
	Phenolic compounds as C6H5OH	mg/L	5530-D	0.001	0.002	BDL	BDL	BDL	BDL
	Residual free chlorine	mg/L	4500-Cl-.B	0.2	1.0	BDL	BDL	BDL	BDL
	Mineral oil	mg/L	IS:3025 (part 39)	0.5	No relaxation	absent	absent	absent	absent
	Anionic Detergents (as MBAS)	mg/L	IS:13428:2005K	0.2	1.0	<0.2	<0.2	<0.2	<0.2
	Aluminium as Al	mg/L	3120-B	0.03	0.2	0.06	BDL	BDL	0.07
	Barium as Ba	mg/L	3120. B	0.7	No relaxation	0.22	0.18	0.24	0.37
	Boron as B	mg/L	3120-B	0.5	2.4	0.18	0.26	0.09	0.12
	Iron as Fe	mg/L	3120-B	1.0	No relaxation	0.75	0.61	0.73	0.46
	Zinc as Zn	mg/L	3120-B	5	15	0.41	0.2	0.18	0.23
1.	Copper as Cu	mg/L	3120-B	0.05	1.5	BDL	0.07	BDL	BDL

2.	Manganese as Mn	mg/L	3120-B	0.1	0.3	BDL	0.06	BDL	BDL
3.	Selenium as Se	mg/L	3120-B	0.01	No relaxation	BDL	BDL	BDL	BDL
4.	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-1 Veerlapalli Village		GW-2 Pothana Colony	
						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
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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-1 Veerlapalli Village		GW-2 Pothana Colony	
						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



(iii) Effluents sampling locations

Sl.No.	Sample code	Name of the Location	Latitude	Longitude
1.	EW1	RG OC-III Expansion-II Project Mine Discharge	N 18° 43' 06.14"	E 79° 31' 08.96"
2.	EW2	RG OC-III Expansion-II Project BWS ETP Outlet	N 18° 42' 38.88"	E 79° 30' 54.15"
3.	EW3	RG OC-III Expansion-II Project CHP ETP Outlet	N 18° 43' 12.36"	E 79° 31' 04.72"
4.	EW4*	RG OC-III Expansion-II Project OB Dump Runoff / Settling Pond Outlet	N 18° 41' 57.46"	E 79° 32' 01.84"

Parameters:

The ground water quality results are compared with IS: 10500 standards of groundwater quality and surface water quality with IS 2296, 1982 and CPCB Water Quality Criteria, Class- A (Drinking Water Source without conventional treatment but after Disinfection), Class – B (outdoor bathing (organized) and Class – C (Drinking Water Source with conventional treatment and after Disinfection, Class – C (Drinking Water Source with conventional treatment and after Disinfection, Class –D propagation of wild life fisheries and Class-E (Irrigation, Industrial cooling, controlled waste disposal).

Effluent water quality monitoring involves periodical assessment of quality of mine discharge water, treated workshop effluents, CHP effluent, treated colony effluents, ground water and surface water. pH, Total Suspended Solids (TSS), Chemical Oxygen demand (COD) and Oil and Grease are being periodically monitored in effluents as per the Environmental Standards for coalmines, GSR - 742 (E) dated 25.09.2000.

All the parameters as given in Part-A of General Standards for Discharge of Environmental Pollutants, GSR 801 (E) EPA 1986 prescribed by CPCB is being analyzed for all the effluents, in addition to the above parameters, once in a year for assessing the overall quality of effluents.

Frequency of monitoring:

Monitoring of effluent water samples for four critical parameters is being done at a frequency of once in a fortnight. Effluents are also analyzed in every fortnight, whereas ground water (all parameters), surface water (all parameters) are being analyzed once in every quarter.

Monitoring Data:

The surface water and ground water quality data monitored and the summarized data on effluent water quality in respect of four critical parameters stipulated for coal mines is furnished hereunder. The summary of the monitoring from 01.04.2024 to 30.09.2024 is enclosed as Annexure.

Location	Station Code	pH			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	7.1	8.2	8.1	5.5-9.0
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	7.1	8.1	8.1	5.5-9.0
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	7.2	7.9	7.9	5.5-9.0
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	7.1	7.8	7.8	5.5-9.0
Location	Station Code	TSS (mg/l)			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	21.0	69	63.3	100
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	27.0	82	81.1	100
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	20.0	48	47.1	100
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	17.0	37.0	36.4	100
Location	Station Code	COD (mg/l)			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	24.0	43	42.3	250
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	44.0	71.0	70.3	250
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	19.0	35	34.3	250
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	15.0	27	26.7	250
Location	Station Code	Oil and Grease (mg/l)			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	1.0	1.0	1.0	10
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	1.0	3.2	3.2	10
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	1.0	1.0	1.0	10
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	0.0	0.0	0.0	10

Location	Station Code	TDS(mg/l)			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	758.0	1018	1007.9	--
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	1179.0	2341.0	2319.0	--
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	965.0	1471.0	1469.0	--
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	654.0	915.0	909.8	--
Location	Station Code	BOD (mg/l)			
		Min.	Max.	98%tile	STD
RG OPEN CAST –III EXPANSION –II PROJECT Mine Discharge	EW1	3.2	8.1	7.7	30
RG OPEN CAST –III EXPANSION –II PROJECT BWS ETP Outlet	EW 2	9.2	16.6	16.5	30
RGOPENCAST–IIEXPANSION –II PROJECT CHP ETP Outlet	EW 3	2.2	6.5	6.2	30
RG OC-III OB Dump Runoff / Settling Pond Outlet	EW 4	2.2	3.5	3.5	30

Water Pollution Control Measures:

- Two ETPs of 250 KLD and 50 KLD capacity is provided at Base workshop and CHP to trap of oil and grease before letting out on surface.
- Earth toe walls of 2 x 355 m length are constructed around dump yards to prevent the silt into the run-off water.
- Garland drains and catch drains are provided for safe disposal of run-off water.
- Settling ponds 4 No. are provided to reduce the siltation and suspended solids in run-off water.
- De siltation work finished in settling ponds and drains before starting of every monsoon season.

ATTITUDE OF PHREATIC SURFACE MONITORING IN RAMAGUNDAM-II AREA

(Range of Water Table) Monsoon season-2024

Well No.	Name of the village	Location	Owner's Name	Type of Well	Dimensions (m)	Total depth (m)	MP (m)	DTW(m) Winter season 2024
1	Chandanapur	S.C.Colony 18°42'52" 79°34'31"	Dasari shanker	DW	1.00	10.00	0.75	NA
2	Singireddipalli	18°43'18.92" 79°34'26.41"	Katta Bhumaiah	DW	1.50	9.30	0.65	1.90
3	Chandanapur	Opp: Primary School 18°43'14".5 79°34'49.5	Chilkuru Swamy	DW	1.00	8.50	0.65	4.15
4	Dubbapalli	Village centre 18°42'32" 79°34'53"	Vorlavelli Narayana rao	DW	3.00	10.00/ 8.50	0.55	3.95
5.	Alluru	Near Pochamma Temple 18°40'51" 79°31'42"	Durgam Pocham	DW	1.00	13.50	0.50	7.16
6	Santosh Nagar 8 incline colony	Santhinikethan 'Degree College 18°44'52.9" 79°31'59.1"	Burla Laxmaiah	DW	1.00	9.30	0.50	0.90
7	New Maredupaka	Near Railway Track 18°41'08" 79°31'06"	Sidda rajaiah	DW	1.20	11.10	0.60	2.40
8	Veerlapalli	In Village Centre 18°42'55" 79°31'02"	Penagonda Chandraiah	DW	1.25	10.00	0.50	1.25
9	K K Nagar (Venkatrapalli)	Behind 8 Inc.bunker 18°41'29" 79°32'42"	Choppari Gattaiah	DW	1.00	9.37	0.50	4.20

Phreatic surface monitoring: (Range of Water Table) Monsoon season-2024

Piezometric well no.	Location	Depth (M)	Depth (m)	Dia (m)	MP (m)
RG OC-III- PW 2	Near Veerlapalli Village 18° 42' 55.40" 79° 31' 3.20"	50	0.10	0.20	2.50
RG OC-III- PW 3	Inside Pothana colony 18° 41' 31.80" 79° 31' 0.90"	50	0.10	0.20	2.25
RG OC-III- PW 4	In 8 Inc. colony in front of quarter no.MA-10 18° 41' 34.40" 79° 31' 56.20"	50	0.10	0.20	1.94

10. Compliance of GW Clearance Conditions

Ground Water Clearance Lr.No: 3050/T/2014 dt.20.11.2014.

S.No.	G.W Clearance Conditions.	Status.
1.	To prevent any adverse impact of mine, periodical monitoring of ground water levels and quality should be undertaken and report must be submitted to the D.D, Ground Water Department and Karimnagar regularly.	Piezometric levels are monitored in (3) three piezometric wells constructed around the quarry and were monitored in four times a year (seasonally, i.e. winter, Pre-monsoon, monsoon and post-monsoon). The compliance report is submitted on half yearly basis (i.e. completion of two seasons). to Dy. Director, T.S. Ground water Department, Peddapally The latest report sent vide ref no RG-II/ENV/32/2024/136 dated 07.10.2024.
2.	Purpose built peizometers may be taken up wherever possible in the surrounding project area.	Piezometric levels are monitored in (3) three piezometric wells constructed around the quarry
3.	Afforestation may be taken up wherever possible in the surrounding project area.	Plantation is being taken up as per the program envisaged in the EMP
4.	Artificial recharge structures have to be taken up at suitable locations.	Artificial ground water recharge measures for augmentation of ground water is being carried out through existing Storage Tank in an area of 25.38 acres
5.	Precautions should be taken to prevent pollution of local surface and ground water bodies in the area.	Four settling ponds were made to prevent pollution of local surface water.
6.	Impact of mining on ground water resources such as drastic reduction of water table, deterioration of water quality, degradation of irrigation tanks, discharge of untreated water etc, need to be monitored regularly.	Water table is being monitored by SCCL Hydro Geology Department. Water quality is being monitored by EPTRI, Hyderabad and only treated water is being discharged.

Water Conservation Measures:

Artificial ground water recharge measures for augmentation of ground water is being carried out through existing Storage Tank in an area of 25.38 acres, adjacent to New Maredupaka village where water is stored for re-charge the ground water table.

11. Noise Level Monitoring

Noise levels recorded at different locations in and around the project and they are under the statutory limits.

The summary of the monitoring from 01.04.2024 to 30.09.2024 is enclosed as

Location	Zone	Noise Levels in dB(A) Leq Day			
		Min.	Max.	Avg.	STD
RG OPEN CAST –III EXPANSION –II PROJECT(Krishi Bhavan) CN1	Core	52.2	61.5	57.4	75
RGOPENCAST–III eXPANSION–IIPROJECT (CHP) CN2	Core	55.0	64.6	58.7	75
<i>Allur Village BN3</i>	BUFFER	44.3	51.0	48.7	55
<i>Singireddypalli BN4</i>	BUFFER	38.4	50.5	47.1	
Location	Zone	Noise Levels in dB(A) Leq Night			
		Min.	Max.	Avg.	STD
RG OPEN CAST –III EXPANSION –II PROJECT(Krishi Bhavan) CN1	Core	43.8	52.2	46.6	70
RGOPENCAST–III eXPANSION–IIPROJECT (CHP) CN2	Core	43.6	56.7	49.0	70
<i>Allur Village BN3</i>	BUFFER	32.5	42.9	38.8	45
<i>Singireddypalli BN4</i>	BUFFER	26.9	43.0	37.4	45

Noise Pollution Control Measures:

- Protective devices like acoustic wool, Earplugs/ Ear-muffs have been provided to the operators exposed to high Noise levels.
- Raising of plantation in vacant lands available in between the villages and mine to attenuate noise level
- Regular maintenance of vehicles and heavy earth moving equipment to Minimize the noise level
- Sound proof cabins are provided in all the HEMM.
- Maintenance and tuning of machinery is done regularly
- Controlled blasting is done with the use of Nonels.
Monitoring of ground vibrations and noise levels is done regularly.

12. Vehicular Emissions study

Introduction: Vehicular Exhaust Emissions study has been monitored for Heavy Earth Moving Machinery (HEMM) **RG OCP-III (EP) PHASE-II in Ramagundam-II area**. 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 is measured $K \text{ in } m^{-1}$

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 below. HEMM Vehicular emissions results in Ramagundam-II area.



Standards for Vehicular emissions

Test Method	Limits for Vehicular emissions	
Free acceleration test for turbo charged engine and naturally aspirated engine	Hatridge Smoke Units (%)	Light absorption Coefficient (K) in m^{-1}
	65	2.45

Vehicular Emissions Study in RG OCP-III (EP) PHASE-II in RG-II Area

Sl. No	Eqpt Type/ Capacity	Eqpt Name	Make	D.O.C	Hrs Runned	Tested Date	HSU % 65	K m ¹ 2.45	Test Status
HEMM AT, RG OCP-III (EP) PHASE-II									
1	DUMPER-100T	K-378	KOMATSU	05.08.2019	22991	14.8.2024	34.1	1.10	PASS
2	DUMPER-100T	K-379	KOMATSU	05.08.2019	18392	14.8.2024	32.4	1.14	PASS
3	DUMPER-60T	BC-327	BEML	07.02.2019	19166	14.8.2024	35.2	0.18	PASS
4	DUMPER-100T	K-380	KOMATSU	28.08.2019	23079	14.8.2024	34.3	0.24	PASS
5	DUMPER-100T	K-381	KOMATSU	28.08.2019	22384	14.8.2024	29.5	0.18	PASS
6	DUMPER-100T	K-382	KOMATSU	28.11.2019	22217	14.8.2024	33.4	0.19	PASS
7	DUMPER-100 T	K-372	KOMATSU	27.06.2019	18346	14.8.2024	42.1	0.72	PASS
8	DUMPER-60T	BC-330	BEML	27.12.2023	2880	14.8.2024	34.2	0.23	PASS
9	DUMPER-60T	BC-331	BEML	27.12.2023	2717	14.8.2024	33.5	0.15	PASS
10	DUMPER-100T	K-370	KOMATSU	20.05.2019	22627	14.8.2024	34.6	0.51	PASS
11	DUMPER-100 T	K-313	KOMATSU	18.11.2019	45639	15.8.2024	38.5	1.25	PASS
12	DUMPER-100T	K-371	KOMATSU	27.06.2019	23462	15.8.2024	40.4	0.48	PASS
13	DUMPER-60 T	BC-332	BEML	27.12.2023	2809	15.8.2024	41.2	1.15	PASS
14	DUMPER-60T	BC-333	BEML	27.12.2023	2872	15.8.2024	42.5	0.29	PASS
15	DUMPER-60T	BC-334	BEML	27.12.2023	2678	15.8.2024	42.4	0.35	PASS
16	DUMPER-60T	BC-335	BEML	27.12.2023	2514	15.8.2024	35.2	0.27	PASS
17	DUMPER-60T	BC-336	BEML	27.12.2023	2757	15.8.2024	32.1	0.18	PASS
18	DUMPER-100T	K-372	KOMATSU	27.06.2019	43379	15.8.2024	38.2	1.05	PASS
19	DUMPER-60T	CP-311	CAT	20.08.2016	26438	15.8.2024	38.4	0.28	PASS
20	DUMPER-60T	CP-312	CAT	25.08.2016	26926	15.8.2024	34.2	0.45	PASS
21	DUMPER-60T	CP-313	CAT	25.08.2016	28219	16.8.2024	37.2	0.53	PASS
22	DRILL	DM-31	REL	14.11.2015	12155	16.8.2024	39.5	0.42	PASS
23	DUMPER-60T	CP-321	CAT	05.10.2016	29193	16.8.2024	45.1	0.18	PASS
24	DRILL	DM-29	REL	07.09.2015	13727	16.8.2024	42.4	0.25	PASS
25	DRILL	DM-30	REL	09.09.2015	11845	16.8.2024	32.7	0.23	PASS
26	DUMPER-60T	CP-322	CAT	05.10.2016	26908	16.8.2024	39.4	0.29	PASS
27	DUMPER-60T	CP-323	CAT	05.10.2016	29969	16.8.2024	41.5	1.12	PASS
28	DUMPER-60T	CP-324	CAT	05.10.2016	26655	16.8.2024	28.5	0.15	PASS
29	DUMPER-60T	CP-325	CAT	12.10.2016	44178	16.8.2024	33.2	0.24	PASS
30	DUMPER-100T	K-332	KOMATSU	09.10.2015	37290	16.8.2024	34.3	0.17	PASS
31	DUMPER-100T	K-333	KOMATSU	09.10.2015	35224	17.8.2024	38.1	0.21	PASS
32	DUMPER-100T	K-334	KOMATSU	09.10.2015	37121	17.8.2024	37.5	1.21	PASS
33	DUMPER-100T	K-335	KOMATSU	12.11.2015	36003	17.8.2024	33.4	1.05	PASS
34	DUMPER-100T	K-336	KOMATSU	25.11.2015	36496	17.8.2024	32.7	0.59	PASS
35	DUMPER-60T	BC-328	BEML	25.02.2019	17281	17.8.2024	41.3	0.91	PASS
36	DUMPER-60T	BC-329	BEML	07.02.2019	16064	17.8.2024	32.4	1.18	PASS
37	DUMPER-100T	K-385	KOMATSU	30.11.2015	26890	17.8.2024	37.5	0.25	PASS
38	DUMPER-100T	K-386	KOMATSU	23.11.2015	23032	17.8.2024	38.2	0.42	PASS
39	DUMPER-100T	K-387	KOMATSU	23.11.2015	26209	17.8.2024	29.7	0.16	PASS
40	DUMPER-100T	K-388	KOMATSU	23.11.2015	24997	17.8.2024	37.1	0.28	PASS
41	DUMPER-100T	K-389	KOMATSU	23.11.2015	25408	17.8.2024	38.4	0.95	PASS
42	DUMPER-100T	K-373	KOMATSU	27.06.2019	23731	17.8.2024	31.7	0.84	PASS

Sl. No	Eqpt Type/ Capacity	Eqpt Name	Make	D.O.C	Hrs Runned	Tested Date	HSU % 65	K m ¹ 2.45	Test Status
43	DUMPER-100T	K-374	KOMATSU	27.06.2019	23605	17.8.2024	32.4	1.15	PASS
44	DUMPER-100T	K-375	KOMATSU	06.07.2019	21670	17.8.2024	28.7	0.19	PASS
45	DUMPER-100T	K-376	KOMATSU	06.07.2019	20742	17.8.2024	35.4	1.12	PASS
46	DUMPER-100T	K-377	KOMATSU	05.08.2019	22427	17.8.2024	32.7	1.04	PASS
47	DUMPER-60T	BC-313	BEML	30.01.2017	21197	17.8.2024	29.5	0.71	PASS
48	DUMPER-60T	BC-312	BEML	30.01.2017	18193	17.8.2024	-	-	BD
49	DUMPER-60T	CAT-308	CAT	20.08.2016	28467	17.8.2024	37.4	0.41	PASS
50	DUMPER-60T	BC-315	BEML	28.09.2017	22199	17.8.2024	39.4	0.91	PASS
51	DUMPER-100T	K-352	KOMATSU	24.12.2018	24212	19.8.2024	38.2	0.28	PASS
52	DUMPER-100T	K-353	KOMATSU	24.12.2018	24539	19.8.2024	39.4	1.18	PASS
53	DUMPER-100T	K-354	KOMATSU	24.12.2018	24428	19.8.2024	26.5	1.14	PASS
54	DUMPER-100T	K-355	KOMATSU	24.12.2018	24993	19.8.2024	27.4	0.71	PASS
55	DUMPER-100T	K-356	KOMATSU	24.12.2018	24139	19.8.2024	34.7	0.73	PASS
56	DUMPER-60T	BC-316	KOMATSU	14.10.2017	19884	19.8.2024	34.5	0.24	PASS
57	DUMPER-100T	K-358	KOMATSU	25.02.2019	24380	19.8.2024	36.2	1.20	PASS
58	DUMPER-100T	K-359	KOMATSU	25.02.2019	22302	19.8.2024	36.4	0.58	PASS
59	DUMPER-100T	K-360	KOMATSU	25.02.2019	24522	19.8.2024	37.1	0.40	PASS
60	DUMPER-100T	K-361	KOMATSU	17.03.2019	24673	19.8.2024	40.1	0.81	PASS
61	DUMPER-100T	K-362	KOMATSU	17.03.2019	24419	20.8.2024	40.5	0.70	PASS
62	DUMPER-100T	K-363	KOMATSU	17.03.2019	23590	20.8.2024	36.4	0.45	PASS
63	DUMPER-100T	K-364	KOMATSU	26.03.2019	23397	20.8.2024	33.4	0.28	PASS
64	DUMPER-100T	K-365	KOMATSU	26.03.2019	23119	20.8.2024	33.2	1.02	PASS
65	DUMPER-100T	K-366	KOMATSU	06.04.2019	23675	20.8.2024	31.5	0.27	PASS
66	DUMPER-100T	K-367	KOMATSU	09.04.2019	21860	20.8.2024	31.2	0.18	PASS
67	DUMPER-100T	K-368	KOMATSU	13.05.2019	22722	20.8.2024	30.4	1.12	PASS
68	DUMPER-100T	K-369	KOMATSU	13.05.2019	23353	20.8.2024	29.5	0.26	PASS
69	DRILL	DM-36	COPCO	05.06.2017	23397	20.8.2024	31.5	1.25	PASS
70	DRILL	DM-38	COPCO	12.09.2017	24096	20.8.2024	34.2	0.44	PASS
71	DRILL	DM-39	COPCO	03.12.2018	21169	20.8.2024	28.4	0.41	PASS
72	DRILL	DM-35	REL	14.04.2017	20394	21.8.2024	32.5	0.23	PASS
73	DRILL	DM-40	REL	26.06.2017	18654	21.8.2024	41.3	1.10	PASS
74	DRILL	DM-42	REL	06.04.2021	8376	21.8.2024	37.2	0.51	PASS
75	DUMPER-60T	CP-329	CAT	16.09.2016	23877	21.8.2024	34.1	0.17	PASS
76	SHOVEL	MANNE R	BEML	28.11.2019	22264	21.8.2024	30.4	0.28	PASS
77	DOZER	D-345	BEML	16.04.2015	13395	21.8.2024	50.4	0.91	PASS
78	DOZER	D-346	BEML	16.04.2015	14459	21.8.2024	42.1	0.94	PASS
79	DOZER	D-360	KOMAT	14.10.2019	15740	21.8.2024	45.4	0.25	PASS
80	CRANE 27	C 27	DL	20.09.2018	NA	21.8.2024	34.2	0.51	PASS
81	DUMPER-60T	BC-317	BEML	14.10.2017	20737	21.8.2024	40.1	0.72	PASS
82	DUMPER-60T	BC-318	BEML	14.10.2017	18541	21.8.2024	37.2	1.14	PASS
83	DUMPER-60T	BC-319	BEML	28.09.2017	21538	21.8.2024	50.2	0.34	PASS

Sl. No	Eqpt Type/ Capacity	Eqpt Name	Make	D.O.C	Hrs Runned	Tested Date	HSU % 65	K m ¹ 2.45	Test Status
84	DOZER	D-347	KOMAT	05.10.2016	12839	21.8.2024	51.2	0.75	PASS
85	DUMPER	BC-320	BEML	14.10.2017	21938	21.8.2024	36.4	0.52	PASS
86	DUMPER	BC-321	BEML	14.10.2017	22383	21.8.2024	31.5	0.64	PASS
87	DUMPER	BC-322	BEML	14.10.2017	20360	21.8.2024	40.4	0.73	PASS
88	DUMPER	BC-323	BEML	30.10.2017	22327	21.8.2024	37.4	0.52	PASS
89	DUMPER	BC-324	BEML	30.10.2017	21533	21.8.2024	35.3	0.44	PASS
90	DOZER	D-352	KOMAT	03.06.2017	19699	21.8.2024	44.5	0.74	PASS
91	DOZER	D-356	KOMAT	16.11.2017	17156	22.8.2024	40.2	1.13	PASS
92	DOZER	D-358	KOMAT	28.08.2019	12820	22.8.2024	34.1	0.54	PASS
93	DUMPER	BC-325	BEML	30.10.2017	21514	22.8.2024	34.5	0.17	PASS
94	DUMPER	BC-326	BEML	13527	17493	22.8.2024	32.4	0.52	PASS
95	DRILL	DM-41	REL	09.04.2021	4447	22.8.2024	34.1	0.18	PASS
96	DUMPER-60T	BC-314	BEML	30.01.2017	20201	22.8.2024	37.4	0.91	PASS
97	DUMPER-60T	CP-314	CATER	25.08.2016	27533	22.8.2024	35.4	0.52	PASS
98	DUMPER-60T	CP-315	CATER	25.08.2016	29086	22.8.2024	29.5	0.24	PASS
99	DUMPER-60T	CP-316	CATER	31.08.2016	27512	22.8.2024	41.0	0.74	PASS
100	DUMPER-60T	CP-317	CATER	31.08.2016	30172	22.8.2024	29.4	0.71	PASS
101	DRILL	DM-37	ATLAS	10.08.2017	23098	22.8.2024	42.1	0.73	PASS
102	DUMPER-60T	CP-318	CATER	31.08.2016	29948	23.8.2024	41.5	1.26	PASS
103	MOTOR GRADER	MG-15	KOMAT	19.03.2018	10865	23.8.2024	29.5	0.25	PASS
104	MOTOR GRADER	MG-16	KOMAT	31.03.2018	9893	23.8.2024	35.4	0.51	PASS
105	DUMPER-100T	K-342	KOMAT	11.02.2018	27522	23.8.2024	35.1	0.18	PASS
106	DUMPER-100T	K-343	KOMAT	13.02.2018	26216	23.8.2024	34.2	0.22	PASS
107	DUMPER-100T	K-344	KOMAT	02.03.2018	28931	23.8.2024	34.5	0.64	PASS
108	DUMPER-100T	K-345	KOMAT	02.03.2018	28875	23.8.2024	34.2	0.74	PASS
109	DUMPER-100T	K-346-	KOMAT	10.03.2018	27425	23.8.2024	33.5	0.71	PASS
110	DUMPER-100T	K-347	KOMAT	14.03.2018	27728	23.8.2024	35.2	0.54	PASS
111	DUMPER-100T	K-348	KOMAT	07.03.2018	28620	23.8.2024	39.4	0.61	PASS
112	DUMPER-100T	K-349	KOMAT	02.03.2018	27950	23.8.2024	35.6	1.05	PASS
113	DUMPER-100T	K-350	KOMAT	07.03.2018	28278	23.8.2024	44.5	1.12	PASS
114	CRANE 25	C 25	NA	05.10.2018	NA	23.8.2024	32.5	0.17	PASS
115	CRANE 26	C 26	CHP	11.09.2018	NA	23.8.2024	25.8	0.25	PASS
116	CRANE 24	C 24	PS	09.08.2018	NA	23.8.2024	27.4	0.15	PASS
117	DOZER	D-349	KOMAT	26.11.2016	15762	23.8.2024	31.5	0.71	PASS
118	DUMPER-60T	CP-330	CAT	16.09.2016	23750	23.8.2024	50.4	0.81	PASS
119	DUMPER-60T	D-339	BEML	23.11.2013	15669	23.8.2024	-	-	BD
120	DOZER	D-353	KOMAT	03.06.2017	18255	23.8.2024	37.5	0.17	PASS
121	DOZER	D-354	KOMAT	28.09.2017	19141	23.8.2024	33.7	0.29	PASS
122	DOZER	D-355	KOMAT	28.09.2017	17266	23.8.2024	34.5	0.71	PASS
123	DOZER	D-350	KOMAT	27.05.2017	15966	23.8.2024	37.4	0.21	PASS
124	DOZER	D-351	KOMAT	27.05.2017	19918	23.8.2024	40.5	0.41	PASS

Sl. No	Eqpt Type/ Capacity	Eqpt Name	Make	D.O.C	Hrs Runned	Tested Date	HSU % 65	K m ⁻¹ 2.45	Test Status
125	DOZER	D-357	KOMAT	13.05.2019	4983	23.8.2024	33.4	0.25	PASS
126	DOZER	D-348	KOMAT	23.11.2016	17629	23.8.2024	31.2	0.41	PASS
127	CRANE	C-28	ACE	17.07.2019	NA	23.8.2024	35.4	0.26	PASS
128	CRANE	C-29	ACE	09.06.2019	NA	23.8.2024	28.4	0.15	PASS
129	CRANE	C-30	ACE	17.07.2019	NA	23.8.2024	27.4	0.25	PASS
130	CRANE	C-34	ACE	11.09.2018	NA	23.8.2024	29.2	0.12	PASS
131	CRANE	C-32	ACE	05.10.2018	NA	24.8.2024	20.5	1.05	PASS
132	CRANE	C-31	ACE	09.08.2018	NA	24.8.2024	25.1	0.14	PASS
133	CRANE	C-23	ESC	02.07.2016	NA	24.8.2024	31.5	0.18	PASS
134	WATER TANKER	WT-20	BEML	06.11.2017	16112	24.8.2024	31.5	0.42	PASS
135	WATER TANKER	WT-28	KOMAT	12.10.2023	3018	24.8.2024	45.4	0.51	PASS
136	WATER TANKER	WT-29	BEML	12.10.2023	2233	24.8.2024	44.5	0.14	PASS
137	SHOVEL	GANGA	HYD	25.09.2023	4171	24.8.2024	40.4	0.27	PASS
138	LOADER	LT-9	CAT	10.02.2016	11268	24.8.2024	35.2	0.41	PASS
139	SHOVEL	HARITH A	TATA	21.07.2017	32623	24.8.2024	45.4	0.85	PASS
140	M-GRADER	MG-17	KOMAT	13.05.2019	15774	24.8.2024	41.7	0.50	PASS
141	LOADER	L-11	KOMAT	27.01.2024	2178	17.8.2024	40.7	0.19	PASS
142	SHOVEL	SINDU	HYD	05.02.2024	2237	17.8.2024	41.5	0.52	PASS
143	SHOVEL	AMRUTH A	HITACHI	07.03.2018	28781	17.8.2024	34.5	0.74	PASS
144	DRILL	DM-34	REL	15.03.2017	20274	17.8.2024	37.4	0.71	PASS
145	DRILL	DM-33	REL	23.04.2016	11878	17.8.2024	41.5	0.85	PASS
146	DRILL	DM-32	REL	23.04.2016	14224	18.8.2024	35.1	0.73	PASS
147	DUMPER	CP-328	CAT	26.11.2016	29438	18.8.2024	29.4	0.51	PASS
148	DUMPER	CP-326	CAT	12.10.2016	30450	18.8.2024	45.3	1.21	PASS
149	MOTORGRADER	MG-14	BEML	16.04.2015	8602	18.8.2024	37.5	0.45	PASS
150	MOTORGRADER	MG-19	BEML	07.01.2022	4838	18.8.2024	34.5	0.16	PASS
151	MOTORGRADER	MG-18	KOMATS	28.08.2019	14309	19.8.2024	38.5	0.54	PASS
152	DUMPER	CP-319	CAT	31.08.2016	29667	19.8.2024	27.5	0.42	PASS
153	MOTOR GRADER	MG-21	BEML	27.01.2022	6860	19.8.2024	24.5	0.18	PASS
154	SHOVEL	PENNA	HYD	02.11.2023	1402	19.8.2024	38.4	0.50	PASS
155	WATERTANKE R	WT-16	BEML	14.06.2014	23406	19.8.2024	57.2	0.45	PASS
156	WATERTANKE R	WT-17	BEML	02.02.2015	20077	18.8.2024	64.5	2.43	PASS
157	WATERTANKE	WT-18	BEML	30.07.2015	21662	19.8.2024	68.5	2.51	FAIL

Sl. No	Eqpt Type/ Capacity	Eqpt Name	Make	D.O.C	Hrs Runned	Tested Date	HSU % 65	K m ¹ 2.45	Test Status
	R								
158	WATERTANKE R	WT-23	BEML	27.12.2017	16399	19.8.2024	71.5	2.54	FAIL
159	WATERTANKE R	WT-22	BEML	29.11.2017	17677	19.8.2024	63.5	2.42	PASS
160	LOADER	L-10	KL	13.12.2021	14022	19.8.2024	31.5	0.15	PASS
161	WATERTANKE R	WT-27	BEML	12.10.2023	2651	20.8.2024	57.5	0,91	PASS
162	TYRE HANDLER	TH-5	BEML	05.05.2017	NA	20.8.2024	60.4	0.75	PASS
163	TYRE HANDLER	TH-4	BEML	20.06.2017	NA	20.8.2024	69.5	2.51	FAIL
164	DUMPER	CP-320	CAT	31.08.2016	28830	20.8.2024	44.1	0.74	PASS
165	DUMPER-100T	K-337	KOMAT	07.02.2018	27230	20.8.2024	50.4	0.45	PASS
166	DUMPER-100T	K-338	KOMAT	07.02.2018	28569	20.8.2024	47.4	0.84	PASS
167	DUMPER-100T	K-339	KOMAT	07.02.2018	28249	20.8.2024	37.1	0.15	PASS
168	DUMPER-100T	K-340	KOMAT	11.02.2018	26965	20.8.2024	37.4	0.53	PASS
169	DUMPER-100T	K-341	KOMAT	17.02.2018	27209	20.8.2024	34.5	1.20	PASS
170	SHOVEL	BHAGE ERATH A	HYD	23.11.2016	35080	20.8.2024	43.4	0.72	PASS
171	SHOVEL	SHATA KARNI	HITACHI	01.04.2018	30846	21.8.2024	54.5	0.81	PASS
172	SHOVEL	KRISHN A	HYD	23.11.2016	34930	21.8.2024	35.2	0.70	PASS
173	SHOVEL	PRUDVI	HT	13.11.2017	33209	21.8.2024	50.2	0.74	PASS
174	SHOVEL	SABARI	HYD	06.08.2018	9574	21.8.2024	45.4	0.75	PASS
175	SHOVEL	NARMAD	HYD	05.02.2024	2142	21.8.2024	50.4	0.91	PASS
176	SHOVEL	KINNER ASANI	TAATA	16.03.2024	1198	21.8.2024	45.4	0.51	PASS
177	DUMPER	K-357	KOMAT	27.12.2018	194	21.8.2024	35.4	0.81	PASS
178	SHOVEL	MAHAN ANDHI	HYD	12.02.2024	2155	21.8.2024	31.5	0.42	PASS
179	SHOVEL	RUDRA MMA	HITACHI	01.04.2018	30373	21.8.2024	47.5	1.21	PASS
180	SHOVEL	KAVERI	HYD	02.11.2023	862	22.8.2024	28.5	0.15	PASS
181	DUMPER	CP-309	CAT	20.08.2016	29481	22.8.2024	47.5	0.71	PASS
182	DUMPER	CP-310	CAT	20.08.2016	28074	22.8.2024	39.1	0.84	PASS

HEMM Augst-2024

RG OCP-III (EP) PHASE-II in RG-II Area

Total no of vehicles	182
No of vehicles tested	180
Passed vehicles	177
Failed vehicles	03
break down vehicle (B/D)	02

Summary of Vehicular emission data:

The total number of HEMM vehicles studied RG OCP-III (EP) PHASE-II in Ramagundam-II area was 182. Out of these, 02 vehicles (S. Nos. 03 and 161) are breakdown, and for another 03 vehicles (S.Nos.154, 157, and 158), the Smoke density has exceeded the stipulated limit of 65% Hatridge smoke Units (%), hence these vehicles require suitable servicing at the authorized service station.

13. Socio-economic Measures

A central colony is provided on non-coal bearing area with facilities such as hospitals, schools, banks, post offices, market places, power supply, transport and black topped roadways etc.

- Free medical treatment to workmen and their family is provided and all the children of workmen are covered under immunization program 327 employees have undergone Periodical Medical Examination (PME) during last Six months.
- Out of 2440 employees on roll, all employees are provided with housing facility, water and electricity.
- Community taps provided in the colonies. Tap water is treated and chlorinated to the prescribed standards.
- Company has its own schools and also encouraging private parties to start schools for enhancing educational facilities.
- Recreation clubs are provided with adequate facilities.
- Encouragement to sports and games is given by forming Works People's Sports and Games Association for conducting inter-area meets etc.

The following activities were done in RG-II Area on 01.09.2024 by SINGARENI SEVA SAMITHI

S.No.	Description (training)	No of Candidates benefited
1	Computer classes	55
2	Yoga course	25
3	Tailoring course	61
4	Fashion Designing	52
5	Total	193

14. Capital and Revenue Expenditure incurred on Environment Management and Pollution Control Measures

Sl. No.	Pollution Control Measures	During last 6 months (in Rs.)	
		Capital	Revenue
1.	Maintenance of mobile water sprinklers	-	61,061,725.0
2.	Dust suppression	-	19,714,912.0
3.	LPG	-	14,010,480
4.	Water Pollution Control (ETP, STP, Settling ponds and Filter beds)	-	7,221,460.25
5.	Post environment monitoring (EPTRI)	-	498,990.5
6.	CFO/CFE	-	0
7.	Expenditure on PPEM	-	65,525
8.	Plantation	-	1196024.57
TOTAL		-	103,769,117.32

15. Environment Management Committee

An environment management committee has been constituted and meetings held on 13.05.2023 and 12.08.2024 with the following officers.

The minutes of meeting dated 12.08.2024 EMC is enclosed.

1. Project Officer,	RGOCP-III (EP)PH-II - Chairman
2. Mine Environmental Officer	RGOCP-III (EP)PH-II - Secretary
3. Col Manager	RGOCP-III (EP)PH-II -Member
4. Project Engineer	RGOCP-III (EP)PH-II -Member
5. Safety Officer	RGOCP-III (EP)PH-II -Member
6. Dy Mgr (OB)	RGOCP-III (EP)PH-II -Member
7. Dy.Mgr (Coal)	RGOCP-III (EP)PH-II -Member
8. Dy.Mgr (O/L)	RGOCP-III (EP)PH-II -Member
9. DGM (Stores)	RGOCP-III (EP)PH-II -Member
10. SE(BWS)	RGOCP-III (EP)PH-II -Member
11. Dy.Mgr(Drills)	RGOCP-III (EP)PH-II -Member
12. SE (CHP)	RGOCP-III (EP)PH-II -Member
13. Dy.SSO	RGOCP-III (EP)PH-II -Member
14. Area Environmental Officer	RG-II Area -Member
15. Manager Forestry	RG- Region -Member
17. Area Civil Engineer	RG-II Area -Member
18. Area Estates officer	RG-II Area -Member

The following points are discussed in the ENV management committee meeting.

The Mine Environmental Management Committee meeting was held on 12.08.2024 at Office of the Project Offices RG OCP-III (EP) Phase-2.

Minutes of the meeting

1. Chairman welcomed all members to the meeting.
2. Chairman reviewed the previous meeting minutes and their implementation.
3. Environment officer explained New EC conditions of 9.52 MTPA, 8.16 MTPA and 6.80 MTPA to the committee members.
4. Environment officer explained Parivesh portal for uploading of all EC copies in parivesh government portal
5. Project Officer instructed Safety Officer to procure dust masks and ear plugs and issue regularly to all employees.

Action: Safety Officer, OCP.III

6. Project Officer advised Dy.SSO to spread the top soil on the final slopes and decks of the OB benches for plantation. Chairman instructed Environment officer to make arrangements to spread the top soil on the slopes and stabilized dumps before on set of monsoon.

Action: Dy.SSO/Mine Env. Officer, OCP-III

7. Chairman advised Survey Officer (Dy.SSO) to locate the places for next year Plantation. Also the chairman instructed the Environment officer to plant native spices at external dump yard to make necessary arrangements for plantation.

Action: Dy.SSO /Env.Officer, OCP III

8. Project Officer instructed Surveyor to monitor the Internal and External Dump Stability and record the same in a bound paged book once in a month.

Action: Dy.SSO (Surveyor), OCP.III, RG.II

9. Project Officer instructed Env. Officer for making of deck drains and cribs in all finished decks.

Action: Env.Officer, OCP III

10. Chairman advised pumps engineer to arrange separate water filling points to department workings and contractual working areas and ensure continuous availability of water at filling points to prevent the dust in haul roads and workplaces.

Action: Dy.S.E. (Pump Section)

11. Project Officer advised Dy S.E. (Pumps) to operate one 240HP Pump continuously to supply water for control of smoke/fire at Pilot Quarry / Coal Bench and install to operate sufficient no of pumps for continuous supply of water for dust suppression.

Action: Pump Section in charge

12. Chairman advised SE OCP-III CHP to ensure proper water/ mist spray arrangement at all transfer points and water canon working at surface feeder to control dust.

Action: S.E. CHP OCP.III

13. Chairman advised DGM, Base Work Shop to monitor the vehicular emissions. If the emissions are not within the prescribed limits take appropriate measures to bring down the emissions within the prescribed limits before allowing operating the equipment.

Action: DGM, BASE WORK SHOP

15. Chairman advised S.E. Drills for maintenance of wet drilling operations on all drill machines

Action:S.E. Drills

16.Chairman advised the Forest Officer RG Region, to procure the mix of native species of the plants and arrange for plantation on the stabilized dumps and vacant lands. He also advised Environment Officer OCP-III to make necessary arrangements for plantation.

Action: Forest Officer, RG.II/ENV. Officer OCP III

**PROJECT OFFICER,
RG OCP III (EP) PH –II Project.**

16. Environment audit cell report

A meeting of Environment Audit Cell of Ramagundam Area –II was conducted on 02.09.2024 with the following Officers:

Sl. No.	Name	Designation	Role
01	Sri L.V.SURYANARAYANA	General Manager	RG II Area
02	Sri S SANTHOSH KUMAR	So to GM	Member
03	Sri M.NARASIMHA RAO	Area Engineer (EandM)	Member
04	Sri G. Dhananjaya	DGM (Civil)	Member
05	Sri K. SURESH BABU	Area Environment	Member
06	Sri S.MADHUSUDAN	Project Officer	RG OCP-III Exp., PH-II
07	Sri A. NEHRU	Agent	GDK7 L andVKP Mine
08	Sri BHARATH KUMAR	Manager	RG OCP-III Exp., PH-II
09	Sri G.V.Rajaji	Project Engineer	RG OCP-III Exp., PH-II
10	Sri G.Venu Kumar	(Environmental Officer, RG OC-III)	RG OCP-III Exp., PH-II
11	Sri NAVEEN	Manager(Forestry)	RG-II Area.

1. The Area Audit Cell reviewed the compliance of EC conditions of RG OCP-III Exp Phase-II, VKP and 7 LEP closing mine in detail.
2. Area environment in charge explained the importance of Parivesh portal for uploading of all EC copies in parivesh government portal
3. With regard to RG OCP-III Exp., Phase-II compliance of EC of 9.52 MTPA and 8.15 MTPA conditions, the conditions were discussed by the committee and advised to comply all the conditions scrupulously and submit the latest compliance status by the project authorities to the committee in next meeting.

Action - Project Officer RG-OCP-3 EP Phase-II

Accordingly, the following works are proposed to be undertaken on priority basis:

4. The audit cell advised, Area engineer to monitor the vehicular emissions. If the emissions are not within the prescribed limits take appropriate measures to bring down the emissions within the prescribed limits.

Action: Area engineer

5. The audit cell advised the project authorities to keep ready plantation area by spreading the top soil, making approach roads to all dumps, so that

arrangements can be made by the manager Forestry.

[Action - Project Officer RG-OCP-3 EP Phase-II ,Survey officer and Environmental Officer, , RG-OCP-3 EP Phase-II , Manager Forestry]

6. Chairman advised DGM Civil RG-II Area ETPs at CHP OCP-III and Base Work shop are to be worked efficiently.

Action: DGM Civil, RG-II

7. As Per New EC project proponent shall plant only native fruit bearing/medicinal value trees, exotic species the coming monsoon 2022, the details of plantation done in the rainy season on plan to be submitted to the committee in the next meeting, and also advised Eucalyptus plants shall not be planted.

[Action : Manager (Forestry) RG. region and Survey RG-OCP-3 EP Phase-II)

8. The status of procurement of Mechanized sweeper and dust collector for effective dust collection at all CHP roads, coal roads and office premises

[Action: Area Engineer, Project Engineer, RG-OCP-3 EP Phase-II,]

9. The phase-wise restoration and reclamation programme shall be strictly implemented as per the approved EIA/EMP.

[Action: Manager, RG-OCP-3 EP Phase-II.]

17. Land use and Land cover study of core zone of the mine

The Satellite data of the core zone of 2070.11 Ha. has been presented. The classified data of the Mine Core Zone. The extents of various Land Use/Land Cover classes pertaining to the core zone area are given below

Land use land cover report sent to MoEF andCC Regional office Chennai with ref no - RGM/ENV/03/2023/49 dated 24.05.2023

Annexure-29



The Singareni Collieries Company Limited

(A Govt. Company)

RAMAGUNDAM AREA - II

Phone: 08728 – 250255

FAX: 08728-250110

PIN: 505211

Date: 24.05.2023

Ref. No. RGM / ENV / 03/ 2023/ 49

To
The Director,
Ministry of Environment, Forests &
Climate Change (MoEF & CC),
Integrated Regional Office,
Arya Bhavan, 3rd Floor,
Saifabad, Khairatabad
Hyderabad – 500004,
Telangana (State)

Dear Sir,

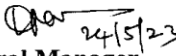
Sub: Report on Land Use Land Cover Study of Core & Buffer Zone of
Ramagundam Opencast-III Expansion Phase-II Coal Mining
Project in the year 2022. – Reg.

With reference to the above, please find enclosed herewith the Report on
Land Use Land Cover Study of Core & Buffer Zone of Ramagundam
Opencast-III Expansion Phase-II Coal Mining Project. of S.C.Co.Ltd, in the
year 2022.

Thanking You,

Encl: As above.

Yours faithfully,


24/5/23
General Manager,
Ramagundam Area-II

Copy to:
The Environmental Engineer,
T.S.Pollution Control Board,
Jyothinagar, Ramagundam, Dist: Peddapalli
State: Telangana - 505 215

Land use Land Cover Class	Area of Sub Class			Area of Class	
		Area in Ha	Percentage of Usage	Area in Ha	Percentage of Usage
Active mining	Quarry Area	549.52	26.5	700.37	33.8
	Coal dump	20.66	1.0		
	Quarry sump	7.21	0.30		
	Roads	78.01	3.8		
	Service buildings	44.97	2.2		
Over Burden Dump	Over Burden Dump	150.51	7.3	150.51	7.3
Under Reclamation	Back filling Under Reclamation	263.24	12.7	353.89	17.1
	Back Filling Plantation	90.65	4.4		
Plantation	Green Belt	324.86	15.7	726.91	35.1
	Scrubs	89.41	4.3		
	OB dump	312.64	15.1		
Agriculture	Crop Land	83.37	4.0	89.37	4.3
	Fallow Land	0.00	0.00		
Waste Land	Barren Land	6.00	0.3		
Forest Cover		0.00	0.00	0.00	0.00
	Open Forest	0.00	0.00		
	Dense Forest	0.00	0.00		
Water Body		16.68	0.8	16.68	0.8
Settlements		32.35	1.6	32.35	1.6
Total Area		2070.10	100	2070.10	100

Land use land cover details of Buffer zone:

The satellite imagery of the study area around 10 Km. from mine site (core zone boundary) as captured by satellite. The Land use Land Cover in this study is given

PROJECT OFFICER,
RGOC III, EXP II PROJECT
RG-II AREA, SCCL.

Ambient Air Quality Results
Readings from April 2024 to September 2024

RG OPEN CAST -III EXPANSION -II PROJECT (KRUSHIBHAVAN) (CA1)

S.No.	Date of Sampling	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
Coal mine standards (Commenced prior to 25.09.2000) GSR 742(E), Dated 25.09.2000		300	*	120	120
1	11.04.2024	216	38.4	18.4	24.3
2	24.04.2024	237	51.0	19.0	25.1
3	08.05.2024	182	50.2	20.5	26.1
4	24.05.2024	195	57.8	23.4	28.7
5	13.06.2024	156	58.6	11.4	15.1
6	28.06.2024	192	64.2	12.0	15.1
7	05.07.2024	127	39.3	10.1	12.8
8	18.07.2024	120	34.4	9.7	12.6
9	01.08.2024	130	43.9	10.4	13.0
10	17.08.2024	132	39.1	10.4	13.0
11	02.09.2024	133	43.8	11.5	12.9
12	16.09.2024	135	38.8	10.6	13.2
98 Percentile		232.4	63.0	22.8	28.1
minimum		120.0	34.4	9.7	12.6
maximum		237.0	64.2	23.4	28.7
average		162.9	46.6	14.0	17.7

RG OPEN CAST -III EXPANSION -II PROJECT (Base Workshop (CA2))

S.No.	Date of Sampling	PM₁₀ ($\mu\text{g}/\text{m}^3$)	PM_{2.5} ($\mu\text{g}/\text{m}^3$)	SO₂ ($\mu\text{g}/\text{m}^3$)	NO₂ ($\mu\text{g}/\text{m}^3$)
Coal mine standards (Commenced prior to 25.09.2000) GSR 742(E), Dated 25.09.2000		300	*	120	120
1.	13.06.2024	209	70.4	11.9	14.1
2.	28.06.2024	184	68.3	10.5	13.4
3.	05.07.2024	110	44.3	9.7	12.9
4.	20.07.2024	108	39.3	9.0	12.7
5.	01.08.2024	113	44.1	10.0	13.3
6.	21.08.2024	117	39.9	9.8	13.4
7.	02.09.2024	115	43.7	10.5	13.2
8.	16.09.2024	120	40.4	10.0	13.5
98 Percentile		205.5	70.1	11.7	14.0
minimum		108.0	39.3	9.0	12.7
maximum		209.0	70.4	11.9	14.1
average		134.5	48.8	10.2	13.3

RG OPEN CAST -III EXPANSION -II PROJECT (Stores) (CA3)

S.No.	Date of Sampling	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
Coal mine standards, GSR 742(E), Dated 25.09.2000		300	-	120	120
1.	13.04.2024	195	59.6	19.6	24.8
2.	26.04.2024	208	44.4	18.2	23.9
3.	10.05.2024	171	53.3	16.0	22.6
4.	27.05.2024	192	52.6	19.5	25.9
5.	14.06.2024	186	59.7	9.1	13.9
6.	29.06.2024	175	64.9	9.6	14.9
7.	05.07.2024	114	45.0	10.0	12.3
8.	20.07.2024	104	35.0	9.7	12.2
9.	01.08.2024	116	46.2	10.4	12.8
10.	21.08.2024	119	41.0	10.2	12.7
11.	02.09.2024	117	45.3	10.6	12.9
12.	16.09.2024	122	41.2	10.5	12.8
98 Percentile		205.1	63.8	19.6	25.7
minimum		104.0	35.0	9.1	12.2
maximum		208.0	64.9	19.6	25.9
average		151.6	49.0	12.8	16.8

RG OPEN CAST -III EXPANSION -II PROJECT CHP (CA4)

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)
<i>Coal mine standards (Commenced after 25.09.2000) GSR 742(E), Dated 25.09.2000</i>		250	*	120	120
1.	13.04.2024	218	54.2	19.2	25.5
2.	26.04.2024	224	56.6	19.3	25.8
3.	10.05.2024	218	64.2	22.4	28.2
4.	27.05.2024	194	63.1	24.4	30.1
5.	14.06.2024	219	75.5	9.8	14.2
6.	29.06.2024	209	72.4	9.1	15.2
7.	05.07.2024	129	40.0	9.2	13.4
8.	20.07.2024	122	30.0	8.8	13.2
9.	01.08.2024	133	45.3	9.6	13.5
10.	21.08.2024	135	40.2	9.8	13.4
11.	02.09.2024	138	45.2	10.0	13.5
12.	16.09.2024	137	41.0	10.2	13.4
98 Percentile		222.9	74.8	24.0	29.7
minimum		122.0	30.0	8.8	13.2
maximum		224.0	75.5	24.4	30.1
average		173.0	52.3	13.5	18.3

Ambient Air Quality at Singireddypalli Village (BA1)

S.No.	Date of Sampling	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
NAAQ Standards, CPCB dated: 18.11.2009		100	60	80	80
1.	12.04.2024	82	41.4	12.6	18.5
2.	25.04.2024	86	41.1	10.1	14.2
3.	09.05.2024	81	46.1	9.7	13.8
4.	25.05.2024	73	43.8	10.4	15.2
5.	12.06.2024	67	39.3	9.2	13.7
6.	27.06.2024	77	40.2	8.6	13.4
7.	08.07.2024	53	32.1	8.2	12.5
8.	18.07.2024	50	26.8	8.1	12.4
9.	03.08.2024	55	33.3	8.8	12.7
10.	17.08.2024	59	38.8	9.0	12.8
11.	03.09.2024	58	38.0	9.0	12.8
12.	17.09.2024	60	38.8	9.1	12.9
98 Percentile		85.1	45.6	12.1	17.8
minimum		50.0	26.8	8.1	12.4
maximum		86.0	46.1	12.6	18.5
average		66.8	38.3	9.4	13.7

Ambient Air Quality at Laxmipuram Village (BA2)

S.No.	Date of Sampling	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
NAAQ Standards, CPCB dated: 18.11.2009		100	60	80	80
1	13.04.2024	88	44.6	19.7	23.2
2	26.04.2024	71	47.2	17.5	22.8
3	10.05.2024	76	42.4	19.2	24.6
4	25.05.2024	87	38.7	21.6	26.5
5	14.06.2024	72	38.4	8.8	12.3
6	29.06.2024	64	34.8	8.8	12.0
7	08.07.2024	55	33.0	8.5	12.9
8	19.07.2024	51	27.5	8.3	12.8
9	03.08.2024	57	33.0	9.0	12.9
10	20.08.2024	60	38.5	9.2	12.5
11	02.09.2024	59	33.2	9.0	12.9
12	16.09.2024	63	38.6	9.5	12.6
98 Percentile		87.8	46.6	21.2	26.1
minimum		51.0	27.5	8.3	12.0
maximum		88.0	47.2	21.6	26.5
average		66.9	37.5	12.4	16.5

Ambient Air Quality at Alluru Village (BA3)

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	12.04.2024	91	35.1	18.3	22.9
2	25.04.2024	88	43.1	19.1	25.5
3	09.05.2024	69	39.2	17.6	22.3
4	25.05.2024	67	36.2	19.1	25.7
5	13.06.2024	59	33.6	9.3	11.5
6	28.06.2024	69	37.4	8.0	13.6
7	08.07.2024	51	31.6	8.7	11.9
8	18.07.2024	49	26.3	8.6	11.8
9	03.08.2024	53	32.9	9.0	12.0
10	17.08.2024	58	38.4	9.0	12.0
11	04.09.2024	55	38.4	9.1	12.1
12	18.09.2024	61	38.3	9.1	12.1
98 Percentile		90.3	42.2	19.1	25.7
minimum		49.0	26.3	8.0	11.5
maximum		91.0	43.1	19.1	25.7
average		64.2	35.9	12.1	16.1

Ambient Air Quality at Penchkalpet (BA4)

S.No.	Date of Sampling	PM₁₀ (µg/m³)	PM_{2.5} (µg/m³)	SO₂ (µg/m³)	NO₂ (µg/m³)
NAAQ Standards, CPCB dated: 18.11.2009		100	60	80	80
1.	12.04.2024	85	38.4	15.1	21.2
2.	25.04.2024	82	49.5	12.0	18.9
3.	09.05.2024	78	54.7	10.3	15.7
4.	25.05.2024	84	41.1	12.5	18.4
5.	13.06.2024	62	34.8	8.5	12.0
6.	28.06.2024	74	39.3	8.8	12.7
7.	08.07.2024	61	34.9	7.8	12.8
8.	19.07.2024	59	29.1	7.7	12.7
9.	03.08.2024	63	36.3	8.3	13.0
10.	20.08.2024	65	42.3	8.5	12.9
11.	03.09.2024	65	36.3	8.5	13.0
12.	17.09.2024	66	42.3	8.7	13.0
98 Percentile		84.8	53.6	14.5	20.7
minimum		59.0	29.1	7.7	12.0
maximum		85.0	54.7	15.1	21.2
average		70.3	39.9	9.7	14.7

Characteristics of Effluents Readings from April 2024 to September 2024

RG OPEN CAST -III EXPANSION -II PROJECT Mine Discharge (EW1)

S.No.	Date of Sampling	pH (at 25°C)	Total Suspended Solids at 105 °C	TDS at 180°C	Chemical Oxygen Demand	BOD	Oil and 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.	15.04.2024	7.1	28	811	43	4.4	<1
2.	30.04.2024	7.8	43	758	24	4.8	<1
3.	15.05.2024	7.3	21	893	31	3.2	<1
4.	31.05.2024	7.1	32	942	28	4.8	1
5.	14.06.2024	7.3	23	881	35	3.5	<1
6.	29.06.2024	7.3	41	972	24	5.2	1
7.	09.07.2024	7.6	35	861	27	5.2	<1
8.	21.07.2024	7.8	29	1018	32	6.1	1
9.	08.08.2024	7.2	41	965	39	4.1	1
10.	19.08.2024	8.2	30	895	28	3.4	<1
11.	04.09.2024	7.6	69	966	31	6.2	1
12.	18.09.2024	7.2	32	792	40	8.1	1
98 Percentile		8.1	63.3	1007.9	42.3	7.7	1.0
minimum		7.1	21.0	758.0	24.0	3.2	1.0
maximum		8.2	69	1018	43	8.1	1
average		7.5	35.3	896.2	31.8	4.9	1.0

**Characteristics of Effluents – RG OPEN CAST –III EXPANSION –II PROJECT
BWS ETP Outlet (EW 2)**

S.No.	Date of Sampling	pH (at 25°C)	Total Suspended Solids at 105 °C	TDS at 180°C	Chemical Oxygen Demand	BOD	Oil and 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.	15.04.2024	7.3	59	1871	51	9.2	1.4
2.	30.04.2024	7.4	67	2241	48	14.4	1
3.	15.05.2024	7.1	49	1988	55	11.2	1.6
4.	31.05.2024	8.1	56	2341	52	14.3	2.2
5.	14.06.2024	7.9	74	1872	63	15.2	2.6
6.	29.06.2024	7.4	63	1674	44	11.4	3
7.	09.07.2024	7.7	78	2144	67	14.4	3.2
8.	21.07.2024	7.9	59	1965	56	13.6	2.8
9.	08.08.2024	7.7	82	1883	71	16.6	2.2
10.	19.08.2024	7.5	42	1582	52	11.5	1.4
11.	04.09.2024	7.2	27	1255	59	12.4	2
12.	18.09.2024	7.4	75	1179	68	16.3	1.8
98 Percentile		8.1	81.1	2319.0	70.3	16.5	3.2
minimum		7.1	27.0	1179.0	44.0	9.2	1.0
maximum		8.1	82	2341.0	71.0	16.6	3.2
average		7.6	60.9	1832.9	57.2	13.4	2.1

**Characteristics of Effluents – RG OPEN CAST –III EXPANSION –II PROJECT
CHP ETP Outlet (EW 3)**

S.No.	Date of Sampling	pH (at 25°C)	Total Suspended Solids at 105 °C	TDS at 180°C	Chemical Oxygen Demand	BOD	Oil and 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.	15.04.2024	7.6	36	1057	23	2.4	<1
2.	30.04.2024	7.7	48	965	28	3.2	<1
3.	15.05.2024	7.9	39	1236	19	2.2	<1
4.	31.05.2024	7.7	44	1178	24	3.6	<1
5.	14.06.2024	7.6	32	1344	31	5.2	1
6.	29.06.2024	7.2	24	1252	28	4.2	<1
7.	09.07.2024	7.8	30	1462	35	3.4	<1
8.	21.07.2024	7.7	28	1396	20	2.2	<1
9.	08.08.2024	7.2	34	1471	27	3.1	<1
10.	19.08.2024	7.2	20	1092	24	4.4	<1
11.	04.09.2024	7.4	24	1247	19	2.2	<1
12.	18.09.2024	7.6	33	1364	32	6.5	<1
98 Percentile		7.9	47.1	1469.0	34.3	6.2	1.0
minimum		7.2	20.0	965.0	19.0	2.2	1.0
maximum		7.9	48	1471.0	35	6.5	1
average		7.6	32.7	1255.3	25.8	3.6	1.0

**Characteristics of Effluents – RG OC-III OB Dump Runoff / Settling Pond
Outlet (EW 4)**

S.No.	Date of Sampling	pH (at 25°C)	Total Suspended Solids at 105 °C	TDS at 180°C	Chemical Oxygen Demand	BOD	Oil and 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.	09.07.2024	7.1	18	654	27	2.8	<1
2.	21.07.2024	7.4	26	788	16	2.2	<1
3.	08.08.2024	7.8	31	856	23	2.4	<1
4.	19.08.2024	7.7	17	793	20	3.1	<1
5.	04.09.2024	7.5	37	863	15	2.2	<1
6.	18.09.2024	7.7	30	915	24	3.5	<1
98 Percentile		7.8	36.4	909.8	26.7	3.5	0.0
minimum		7.1	17.0	654.0	15.0	2.2	0.0
maximum		7.8	37.0	915.0	27	3.5	0.0
average		7.5	26.5	811.5	20.8	2.7	0.0

Noise Quality Data
Sampling Period: from April 2024 to September 2024

Name of the Location	Date of Sampling	Noise levels in dB (A)	
		Leq Day	Leq Night
GSR 742 (E) Standards		75	70
RG OPEN CAST – III EXPANSION – II PROJECT (Krishi Bhavan) CN1	12.04.2024	61.5	52.2
	25.04.2024	59.4	51.7
	09.05.2024	57.7	46.8
	25.05.2024	58.1	48.5
	12.06.2024	52.2	44.8
	27.06.2024	57.6	46.5
	05.07.2024	57.2	44.8
	18.07.2024	56.0	43.8
	01.08.2024	57.6	45.0
	17.08.2024	57.0	44.6
	02.09.2024	57.5	45.6
	16.09.2024	57.5	45.0
	98 Percentile	61.0	52.1
	minimum	52.2	43.8
	maximum	61.5	52.2
average	57.4	46.6	

Name of the Location	Date of Sampling	Noise levels in dB (A)	
		Leq Day	Leq Night
GSR 742 (E) Standards		75	70
RG OPEN CAST – III EXPANSION – II PROJECT (CHP) CN2	11.04.2024	64.4	56.7
	24.04.2024	62.9	54.2
	08.05.2024	60.4	51.3
	24.05.2024	64.6	52.3
	13.06.2024	55.4	43.6
	28.06.2024	56.8	47.7
	05.07.2024	56.2	47.0
	20.07.2024	55.0	46.0
	01.08.2024	57.0	47.2
	21.08.2024	56.5	46.7
	02.09.2024	57.7	48.3
	16.09.2024	57.2	47.0
	98 Percentile	64.6	56.2
	minimum	55.0	43.6
	maximum	64.6	56.7
average	58.7	49.0	

Name of the Location	Date of Sampling	Noise levels in dB (A)	
		Leq Day	Leq Night
GSR 742 (E) Standards		75	70
Allur Village BN3	11.04.2024	48.2	37.4
	24.04.2024	51.0	41.1
	08.05.2024	47.1	38.4
	24.05.2024	48.6	35.7
	14.06.2024	44.3	32.5
	29.06.2024	48.5	33.7
	09.07.2024	47.2	39.9
	18.07.2024	49.0	39.7
	05.08.2024	49.8	40.3
	17.08.2024	49.8	41.2
	04.09.2024	50.5	42.9
	18.09.2024	50.4	42.6
	98 Percentile	50.9	42.8
	minimum	44.3	32.5
	maximum	51.0	42.9
average	48.7	38.8	

Name of the Location	Date of Sampling	Noise levels in dB (A)	
		Leq Day	Leq Night
GSR 742 (E) Standards		75	70
Singireddypalli BN4	13.04.2024	46.4	36.2
	26.04.2024	45.4	38.9
	10.05.2024	48.5	37.7
	27.05.2024	46.1	34.5
	14.06.2024	38.4	26.9
	29.06.2024	42.3	36.2
	09.07.2024	49.7	31.4
	18.07.2024	48.9	40.6
	05.08.2024	49.9	41.2
	17.08.2024	49.5	40.2
	03.09.2024	49.9	42.1
	17.09.2024	50.5	43.0
	98 Percentile	50.4	42.8
	minimum	38.4	26.9
	maximum	50.5	43
average	47.1	37.4	