



File No.: 23-257/2018-IA(III)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Dated 28/05/2025



To,

Sh. N Balram
M/s. Singareni Collieries Company Limited
Po: Kothagudem Collieries, Dist: Khammam, T.S, Kothagudem, Bhadradi Kothagudem, Telangana,
507101
E-mail: gm_env@scclmines.com

Subject: **Jawahar Khani Opencast Mine [ML area: 1114.507 ha with production capacity of 2.50 MTPA (rated)/ 3.75 MTPA (peak)] by M/s Singareni Collieries Company Limited located at Villages: Rompedu, Usirikayalapalli, Yellandu; District: Bhadradi Kothagudem & Khammam; State: Telangana – Environmental Clearance–regarding**

Sir/Madam,

This is with reference to your online application vide proposal no. IA/TG/CMIN/533047/2025 dated 19.04.2025 along with written submission dated 16.05.2025 seeking for grant of Environmental Clearance (EC) under the provision of EIA notification 2006 and as amended thereof for the project mentioned above.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0101TG5514964N
(ii) File No.	23-257/2018-IA(III)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Sector	Coal Mining
(vii) Name of Project	Jawahar Khani Opencast Mine [area: 1114.507 ha with production capacity of 2.50 MTPA (rated)/ 3.75 MTPA (peak)]
(ix) Location of Project (District, State)	hadradi Kothagudem, Telangana
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	No

3. M/s. Singareni Collieries Company Limited (SCCL) has made an online application vide proposal No. IA/TG/CMIN/533047/2025 dated 19.04.2025 for the proposed Jawahar Khani Opencast Mine [Amalgamation of JK-5 OC and 21 Incline (Conversion to OC)] along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

4. The proposed project activity is listed at item No.1 (a) (Mining of Minerals) under Category “A” of the schedule of the EIA Notification, 2006 and do not attract general conditions of the EIA Notification, 2006. Hence, the project is appraised at Central Level.

5. The instant Proposal was earlier submitted by the PP vide proposal no. IA/TG/CMIN/501551/2024 dated 27.11.2024 and the same was appraised in the 22nd EAC meeting of Coal held on 17 – 18th March 2025, wherein the proposal was returned in present form with a recommendation to revisit the entire proposal in totality with respect to surface rights required for the entire forest land involved, reduction in the depth of void proposed in 163.135 ha and revalidation of base line data. Thereafter, PP submitted fresh proposal and the same was further considered in 25th EAC meeting held on 09th May, 2025. PP has submitted the written information on 16.05.2025. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

6. Proposed Jawahar Khani Opencast Coal Mine (GK OCM) project is an amalgamation of Jawahar Khani-5 Opencast Expansion Project (closed in year 2024-25) and 21 Incline mine (closed) (proposed for conversion from UG to OC). In the proposed amalgamation the balance coal reserves (23 MT) from the 21 Incline Mine will be extracted by open cast method after conversion of mine from UG to OC and the voids of JK-5 OC will be filled by the overburden of 21 Incline Mine. The project of Jawahar Khani Opencast Mine is located in Sudimalla (V) & Rompaid (V), Yellandu Mandal of Bhadradi Kothagudem District and Usirikayalapalle (V) of Singareni Mandal of Khammam District in Telangana State is an opencast mine with a capacity of 2.50 MTPA (Peak 3.75 MTPA) in mine lease area of 1114.507 ha.

7. Details of previous approvals in chronological order:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity/ Extension / Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
Jawahar Khani- 5 Opencast Project – No forest land involved in the ML area.						
1	Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/358/2006-IA.II(M).	Original EC	2.00	514.95	18.05.2009	Implemented
2	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project-J-11015/31/ 2013-IA.II(M).	EC Expansion	2.50	514.95	03.03.2016	Implemented
3	Expansion of Jawahar Khani- 5 Opencast Coal Mine Project-F.No. 23-257 / 2018-IA (III)	EC Expansion (under violation category)	3.50	490.14	09.06.2022	Being implemented
21 Incline Underground Coal Mine – Involvement of forest land: 305 Ha						
4	21 Incline Underground Coal Mine- No. J-11015 /930 / 2007-IA.II(M)	Original EC	0.65	745	27.10.2008	Implemented and the mine is closed.

Total ML area = 490.14 + 745 = 1235.14 Ha

8. Production details of the existing EC:

A. JK-5 OC:

S. No	Year	As per EC	Actual Production	Excess production beyond the EC sanctioned capacity
1	2012-13	2.00	1.47	Nil
2.	2013-14	2.00	2.00	Nil
3.	2014-15	2.00	1.39	Nil
4.	2015-16	2.50	2.51	0.01
5.	2016-17	2.50	2.69	0.19
6.	2017-18	2.50	2.96	0.46
7.	2018-19	2.50	3.30	0.80
8.	2019-20	2.50	3.35	0.85
9.	2020-21	2.50	2.50	Nil
10.	2021-22	2.50	2.49	Nil
11.	2022-23	3.50	1.88	Nil
12.	2023-24	3.50	1.37	Nil
13.	2024-25	3.50	1.27	Nil

EC for the Jawahar Khani- 5 mine was accorded under violation category. Amendment in the said EC with respect of implementation of Remediation Plan and Natural & Community Resource Augmentation Plan (RP&NCRAP) was recommended in the 20th EAC meeting held on 22.01.2025. Accordingly, EC amendment was issued on 21.02.2025 for the release of bank guarantee by the TSPCB as the project proponent has completed the implementation of RP & NCRAP.

B. 21 Incline:

S. No.	Year	As per EC	Actual production	Excess production beyond the EC sanctioned capacity
1	2008-09	0.65	0.530	Nil
2.	2009-10		0.374	Nil
3.	2010-11		0.391	Nil
4.	2011-12		0.390	Nil
5.	2012-13		0.332	Nil
6.	2013-14		0.316	Nil
7.	2014-15		0.201	Nil
8.	2015-16		0.203	Nil
9.	2016-17		0.179	Nil
10.	2017-18		0.640	Nil
11.	2018-19		0.363	Nil
12.	2019-20		Nil (Mine Closed)	

9. Certified Compliance Report: The Status of compliance of earlier EC was obtained from Regional Office, Hyderabad vide F. no.1-26/2023/IRO-HYD, dated 24.09.2024 in the name of M/s. Jawaharkhani-5 OC Expansion Project and 21 Incline UG Mine. As per the CCR obtained from Ministry's RO, there were no non-complied or partly complied conditions observed.

10. Environmental Site Settings:

The project area is covered under Survey of India Topo Sheet No. 65 C/6 and is bounded by the geographical coordinates ranging from Latitudes N 17° 32' 44'' to N 17° 37' 10'' & Longitudes E 80° 17' 38'' to E 80° 20' 27''.

Project does not fall in the Critically Polluted Area (CPA) / severely polluted Area (SPA), as per CEPI Assessment 2018.

Forest Area: The project involves 213.0077 Ha of Forest Land and the details of the approvals already obtained are as follows:

S. No.	Obtained vide letter no. & date	Area in ha.	Stage - I/ II	Validity period of FC
1	8-260/1985-FC(Vol.I), dated 14.10.2024.	151.8519	Stage-I-Surface rights	31.12.2034
2	8-54/91-FC (PL), dated 25.07.2008.	42.50	Stage-II-UG Rights	24.07.2028
3	8-260/1985-FC, dated 20.07.2018.(124.96 Ha)	18.6558	Stage-II- UG Rights	31.12.2034
	Total	213.0077		

PP submitted that there is no broken forestland and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

PP submitted that 61.1558 ha of forestland, on which the PP has accorded underground rights for mining shall continue as underground rights only, as the same land will not be disturbed in the opencast mining proposed for the instant project. PP has also submitted a letter obtained in this regard on 24.04.2025 from PCCF, Govt. of Telangana, stating that “an area of 61.156 ha will be kept undisturbed and continued with UG rights and the State Govt. informed that the area of 61.156 Ha is FL diverted with UG rights and no mining activity is proposed in this area, hence kept as undisturbed. This area is covered in the Approved Mining Plan. There is no mining plan separately to this extent.”

Protected Area: The project is not located within 10 KM of any ESZ/ESA/national Park/Wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/Tigre corridor/elephant corridor etc. A Wild life conservation plan for 11 schedule-I species has been prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs. An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 for implementation of the same.

Mine lease Details: Total mine lease area is 1114.507 ha. Details of the same are as follows:

S. No.	Govt. Order/ Notifications as the case may be	Area (ha)	Remarks
1	Yellandu Mining Lease (YML) for an area of 524.96 Ha granted for a period of 20 years vide G.O.MS. No. 5, dated 6 th February, 2015 and valid up to 31 st December, 2034.	524.96	-
2	Yellandu Additional Mining Lease (YAML) for an area of 1712 Ha granted vide G.O. Rt. No. 57, dated 2 nd November, 2024 and valid up to 31.03.2030.	589.547	Out of total 1712 ha of land obtained vide G.O. Rt No. 57, only 589.547 ha is proposed to be used in the instant project. Remaining 1122.543 ha will not be used for the instant project. Out of this 1122.543 ha, 417.854 ha, which is covered under CA land will be surrendered. 651 ha land is covered under township and villages and remaining 53.60 ha land is proposed to be used for future coal extraction. The 704.6 ha (651 + 53.60) is completely non-forest land.
	Total	1114.507	

Land details of existing and proposed project:

S. No.	Mine	Existing EC Area (Ha)	Area considered in present proposal (Ha)	Remarks
1	21 Incline	745 (Non-forest land: 440; Forest land: 305)	524.96 (Non-forest land: 354.4523; Forest land: 170.5077)	Covered in Yellandu Mining Lease (YML). 220.04 ha (Non-forestland: 40 ha; forestland: 180.04 ha) was reduced during 3rd renewal of Mining Lease. The forestland was returned to the State Forest Department.

2	JK 5 Expansion Project	490.14 (No forestland)	487.73 (No forestland)	Covered in Yellandu Additional Mining Lease (YAML). 2.41 ha was excluded-area (de-coaled by UG Method) from the JK-5 Opencast Project.
3	Included additional area		101.817 (Non – forestland: 59.317 ha; forestland: 42.50 ha)	Covered in Yellandu Additional Mining Lease (YAML). Area (De-coaled by UG Mining) for infrastructure and also subsidence monitoring & fire control.
	Total	1235.14	1114.507	

Total ML area = 1114.507 Ha (Forest land: 213.007 Ha + Non forest land: 901.499 Ha)

Other Sensitive Receptors:

Project site proximity to sensitive area	Sensitive receptors within 5 km to the Mine Lease Area		
Project site proximity to sensitive area	i. Habitation (within 5 km)		
i) Habitation	Village	Distance	Direction
	Sudimalla	0.38 Km	S-E
	Usirikayalapalli	0.8 Km	S-W
	Yellandu (Town)	0.1 km	S-E
	Poosapalli	0.80 Km	N-W
ii) School	Shanti Nagar	0.36 km	S-W
iii) River/Waterbody	Tekulagudem	1.56 km	S
	Bhagyanagar Thanda	1.88 km	S-W
iv) Forest	Pollampalli	1.38 km	S-W
v) Archaeological Survey of India (ASI) protected site	Rompaid	2.99 km	N-E
vi) Any other	ii. School: (Within 5 km)		
	Schools	Distance	Direction
	Singareni High School (Yellandu)	0.6 Km	N-E
	Govt.High School (Yellandu)	0.3 km	N-E
	J.B.S. High School (Yellandu)	0.5 km	N-E
	ZPUPS School, (Yellandu)	0.6 Km	N-W
	TTWURJC School (Sudimalla)	0.6 Km	S-E
	TTWRS School (Shanti Nagar)	0.45 Km	S-E
	Usirikayalapalli	1.0 km	S-W
	Tekulagudem	1.70 km	S
	Bhagyanagar Thanda	1.92 km	S-W
	Rompaid	3.00 km	N-E
	iii. River/Waterbody (Within 5 Km)		
	River/Nallah	Distance	Direction
	Masi stream	Flowing adjacent to the ML area.	Drains from the west side of the buffer area and flows northwest
	Bugga vagu, a seasonal nallah	Flowing over the ML area (Undisturbed area)	Drains from the west side of the buffer area and flows south west
	Nalla stream	4.0 km	Flowing towards southeast
	iv. Forest (Within 5 Km)		
	Reserve Forest	Distance	Direction
	Yellandu Reserve Forest of Yellandu	Within the core zone	-

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v. ASI protected site: None within 10 km radius from ML boundary.		
vi. Any other: Nil		

A small portion of seasonal nallah flowing adjacent to the ML boundary is proposed to be straightened along the ML boundary and to construct an embankment between the quarry and nallah. NoC has been obtained from Irrigation Department (I&CADD), State Government of Telangana and work will be taken up as per the guidelines of I&CADD. Existing length of the nallah is 352 m and length proposed for straightening is 294 m.

2 Nos of 3.3 kV HT lines (TS Transco), are passing through the excavation area (Pit-2). It is proposed to divert these power lines along the periphery of the quarry (Pit-2).

11. Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
03.11.2022	F.No. IA 23-257/2018-IA(III)	13.12.2022	12.12.2026

12. **Method of Mining and Mine Plan:** Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020 for the ML area of 1114.507 Ha of the production capacity 2.50 MTPA (rated)/ 3.75 MTPA (peak).

i. Method of mining proposed is opencast mining using shovel-dumper combination.

ii. Total geological reserve reported in the mine lease area is 99.12 MT with 74.68 MT mineable reserves. Out of total mineable reserves of 74.68 MT, 68.57 MT are extractable reserves. Percent of extraction is 91.81%. Till 31.03.2024, about 45.57 MT of coal reserves were already extracted and the balance reserves available for extraction area 23 MT as on 01.04.2024.

iii. There are 2 workable seams, with thickness ranging between 0.90 m – 13.67 m.

iv. Grade of coal is G-13.

v. Average stripping ratio is 1:11.98.

vi. Life of mine is 14 years (as on 01.04.2024).

vii. Top Soil Management:

- **Quantity of Top Soil to be generated:** 5.53 M. Cu.m
- **Storage of Top Soil:** Temporary dumps
- **Handling/Utilization of Topsoil:** External dumps-2.99 M. Cu.m, Internal dumps-2.43 M. Cu.m, Embankment-0.01 M. Cu.m and Green Belt-0.1 M. Cu.m
- **Number of Top Soil Dumps:** 1

viii. Details of OB Dump:

Dumps Details:

Details	Internal Dumps		External Dumps		Remarks
	Nos	Quantity of Waste/ OB stored (M.Cm)	Nos	Quantity of Waste/ OB stored (M.Cm)	Whether external dump is outside mine lease area
Existing	1	107.29 (Pit-1)	1	82.59	No
Proposed	1	225.28 (Pit-2)	0	-	No
Total	2	332.57	1	82.59	

Specification of each dump:

S. No.	Area (ha)	Height (m)	Quantity (M. Cm)	Type (Internal/External)
1	368.435	120	332.48	Internal
2	195.556	60	82.59	External

ix. **Land use details:**

A. Pre-mining land use:

Type	Land use	Within ML Area (Ha)	Total (Ha)
Tenancy	Agricultural	7.650	7.650
	Township	Nil	Nil
	Grazing	Nil	Nil
	Barren	12.330	12.330
	Water Bodies	Nil	Nil
	Road	Nil	Nil
	Community/Other	Nil	Nil
Govt. Non-Forest	Agricultural	Nil	Nil
	SCCL Quarters	51.0763	51.0763
	Grazing	Nil	Nil
	Barren/Other Use	804.8560	804.8560
	Water Bodies	2.692	2.692
	Road & Railways	22.8950	22.8950
Forest	Reserve	213.0077	213.0077
	Protected	Nil	Nil
Free Hold		Nil	Nil
Total		1114.507	1114.507

B. Post-mining land use:

S. No	Type	Total area (Ha)	Reclaimed area (Ha)	Unreclaimed area (Ha)
1	Excavation/Quarry area			
	(a) Backfilled areas	368.435	368.435	-
	(b) Excavated void	163.135	-	163.135
2	Top soil dump	11.910	11.910	-
3	External dump	195.556	195.556	-
4	Safety zone	158.726	147.242	11.484
5	Diversion below river/ nallah/ canal	1.928	-	1.928
6	Settling Pond	7.978	-	7.978
7	Road and infrastructure	80.327	69.5710	10.7560
8	Garland drains	13.266	-	13.266
9	Embankment	1.409	1.409	-
10	Undisturbed Area	111.837		111.837
Total		1114.507	794.123	320.384

x. **Details of transportation:** The coal is proposed to be transported within and outside the mining lease area in the following manner:

- In pit to surface:** Coal from in-pit to surface by conveyor belts for a length of 500 m, within the ML area.
- Surface to siding:** By series of belt conveyors for a length of 2.70 km, within the ML area.
- Siding to loading:** By belt conveyor from siding to pre-weigh bin for a length of 50m and to customers by Rail.
- Quantity to be transported by Rail:** 3.75 MTPA

xi. **Reclamation:** Afforestation shall be done progressively covering an area of 794.123 ha at the end of mining. This will include:

- Reclaimed external OB dump:** 195.556 ha

- b. **Internal dump:** 306.477 ha (Backfilled area)
c. **Green belt:** 159.152 ha
d. **Density of tree plantation (in no of plants):** 2500 per ha
e. Void of 163.135 ha, at a depth of 150 m is proposed to be converted into water body.
f. **Others:** 70.98 ha (69.571 ha Roads & Infrastructure area and 1.409 ha embankment area)
g. **Agriculture and horticulture:** 61.958 ha

13. Baseline Data:

Period	December, 2021 to February, 2022 (Winter) and revalidated by October to December, 2024 (Post monsoon)
Core Zone	
AAQ parameters at 1 Location (min and max)	<u>Winter (Dec. 2021 to Feb. 2022)</u> $PM_{2.5} = 41.7$ to $62.8 \mu g/m^3$ $PM_{10} = 134.0$ to $186.0 \mu g/m^3$ $SO_2 = 10.4$ to $11.8 \mu g/m^3$ $NO_x = 15.1$ to $16.8 \mu g/m^3$ <u>Post monsoon Oct. 2024 to Dec. 2024</u> $PM_{2.5} = 33.1$ to $45.2 \mu g/m^3$ $PM_{10} = 181$ to $143 \mu g/m^3$ $SO_2 = 11.9$ to $14.6 \mu g/m^3$ $NO_x = 16.4$ to $22.4 \mu g/m^3$
Buffer Zone	
AAQ parameters at 10 Locations (min and max)	<u>Winter (Dec. 2021 to Feb. 2022)</u> $PM_{2.5} = 14.30$ to $32.20 \mu g/m^3$ $PM_{10} = 35.0$ to $78.0 \mu g/m^3$ $SO_2 = 7.2$ to $9.7 \mu g/m^3$ $NO_x = 13.2$ to $15.3 \mu g/m^3$ <u>Post monsoon Oct. 2024 to Dec. 2024</u> $PM_{2.5} = 19.5$ to $28.6 \mu g/m^3$ $PM_{10} = 45$ to $87 \mu g/m^3$ $SO_2 = 8.6$ to $11.7 \mu g/m^3$ $NO_x = 13.8$ to $16.5 \mu g/m^3$
Core Zone	
Incremental GLC Level	$PM_{10} = 23.59 \mu g/m^3$ $PM_{2.5} = 8.72 \mu g/m^3$ $SO_2 = 0.5 \mu g/m^3$ $NO_x = 0.82 \mu g/m^3$
Buffer Zone	
Incremental GLC Level	$PM_{10} = 4.55$ to $15.28 \mu g/m^3$ $PM_{2.5} = 0.71$ to $5.03 \mu g/m^3$ $SO_2 = 0.06$ to $0.38 \mu g/m^3$ $NO_x = 0.18$ to $4.94 \mu g/m^3$
Ground water quality at 8 Locations	<u>Winter (Dec. 2021 to Feb. 2022)</u> <ul style="list-style-type: none"> pH values were in the range between 7.0 to 7.6 in the groundwater samples collected within the study area. TDS concentrations were in the range of 350 – 844mg/lit. The TDS concentration was observed to be within the acceptable limit of 500 mg/L in case of GW-2, 7 (436, 350 mg/L) whereas at other locations the values are within the permissible limit of 2000 mg/L Chlorides concentrations are observed to be within the acceptable limit of 250mg/L at all locations except Yellandu GW-1 (295mg/L) where the value is within the permissible limit of

	<p>1000mg/L.</p> <ul style="list-style-type: none"> Fluorides (0.24-0.85 mg/L), Sulphates (21-78 mg/L), concentrations were observed to be within the acceptable limit at all locations <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <ul style="list-style-type: none"> pH values were in the range between 7.3 to 7.9 in the groundwater samples collected within the study area. TDS concentrations ranged from 365 to 747 mg/l. These are within the permissible limit of 2000 mg/l at all locations, except for Motlagudem GW-6 (485mg/l), Rompedu GW-7 (365mg/l), where the TDS concentrations are within the acceptable limit of 500 mg/l. Chlorides concentrations are observed to be within the acceptable limit of 250mg/L at all locations (22 to 112 mg/L) Fluorides (0.32-0.77 mg/L), Sulphates (18-90 mg/L), concentrations were observed to be within the acceptable limit at all locations. <p>The concentrations of heavy metals Cadmium (Cd), Copper (Cu), Lead (Pb), Selenium (Se), Arsenic (As), Chromium (Cr), and Nickel (Ni) are below the detection limits, whereas Manganese (as Mn) is below the acceptable limit.</p>
Surface water Quality at 6 Locations	<p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <ul style="list-style-type: none"> SW quality was also compared with CPCB water quality criteria, the following were observed: In accordance with CPCB water quality criteria, parameters studied were pH, DO, BOD and total coliforms. The surface water samples have DO values ranging from 6.8 mg/L to 8.1 mg/L values are satisfactory and meeting CPCB water quality criteria. <p>surface water samples SW1, SW3, SW4, falls under the category of B category and SW2, SW5, SW6 falls under class D category of CPCB criteria.</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <ul style="list-style-type: none"> SW quality was also compared with CPCB water quality criteria, the following were observed: In accordance with CPCB water quality criteria, parameters studied were pH, DO, BOD and total coliforms. The surface water samples have DO values ranging from mg/L 5.4 to 6.4 mg/L values are satisfactory and meeting CPCB water quality criteria. All the surface water samples are falling under the category of B category Presence of Total coliforms and fecal coliforms shows contamination from fecal matter or sewage entry.
Noise levels Leq (Day and Night)	<p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <p>In core zone Leq Day maximum value is 68.0 dB(A) and Leq Night maximum value is 53.3 dB(A)</p> <p>In buffer zone maximum value of Leq Day is 49.7 dB(A) and minimum is 45.3 dB(A) and maximum value of Leq Night is 39.6 dB(A) and minimum is 37.0 dB(A).</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <p>In core zone Leq Day maximum value is 61.7 dB(A) and Leq Night maximum value is 56.4 dB(A)</p> <p>In buffer zone maximum value of Leq Day is 49.9 dB(A) and minimum is 44.9 dB(A) and maximum value of Leq Night is 39.6 dB(A) and minimum is 36.7 dB(A)</p>
Traffic assessment study findings	<p>The traffic density study has been carried out for JK OC Project at Yellandu to Mahabubabad Road (near JKOC) Junction Road. The study has been done on a Working day and Non working days for 24 hrs.</p> <p><u>Winter (Dec. 2021 to Feb. 2022)</u></p> <p>The peak PCU/hr for total vehicles during the study was 272.15 PCU/hr at 16.00 - 17.00 hrs during working day and 223.25 PCU/hr at 8.00 - 9.00 hrs during non-working day.</p> <p><u>Post monsoon Oct. 2024 to Dec. 2024</u></p> <p>The peak PCU/hr for total vehicles during the study was 292.95 PCU/hr at 09:00-10:00 hrs during working day and 282 PCU/hr at 15:00-16:00 hrs during non-working day.</p>
Flora and fauna	<p><u>Flora</u></p> <p>A total of 332 plant species belonging to 242 genera and 71 families were documented</p>

Water Requirement	<p>Native species: Aegle marmelos, Boswellia serrata, Bombax ceiba, Buchanania cochinchinensis, Careya arborea, Cordia dichotoma, Chloroxylon swietenia, Cleistanthus collinus, Cochlospermum religiosum, Dalbergia species, Diospyros species, Ficus species, Givotia moluccana, Lagerstroemia parviflora, Grewia species, Madhuca, Miliusa tomentosa, Phyllanthus species, Strychnos species, Tectona grandis, Xylia xylocarpa, Wrightia tinctoria, Ziziphus and Terminalia species</p> <p><u>Fauna</u></p> <p>10 Species of mammals , 12 Herpetofauna, 66 Aves, 34 Insects & butterflies and 10 are fishes</p> <p>As per the Indian Wildlife (Protection) Act, 1972, Amendment 2023, the following eleven faunal species are listed under Schedule-I: Four-horned Antelope, Common Grey Mongoose, Indian Chameleon, Checkered Keelback, Indian Rat Snake, Indian Cobra, Indian Rock Python, Common Indian Monitor, Shikra, Black Kite, and Indian Peafowl</p> <p>A Wild life conservation plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs.</p> <p>An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 through RTGS vide UTR No.SBINR 52022091905236839 to, BIOSOT A/c No. 110310100030284, Union Bank of India, Secretariat Branch, Hyderabad.</p>		
	Source of Water	Other (if any)	Pumped out seepage water
	Ground Water Intersection	3.54 m	
	NOCs (Surface Water/Ground Water)	<p><u>JK-5 OC Expansion Project:</u></p> <p>GWC was obtained vide Memo No.2182/HgII/2018-1, dated 28.02.2023.</p> <p>An application for renewal was submitted on 09.01.2025 and is under process.</p> <p><u>21 Incline</u></p> <p>GWC was obtained vide Lr. No.2126/Hg.II(1)/07, dated 11-04-2008.</p> <p>As the mine is closed, fresh GWC application will be submitted by the proponent.</p>	
	Water Requirement	The estimated water to be pumped out from the proposed project is about 2400 m ³ /day. After meeting the mine requirement of 1310 m ³ /day and the balance 1090 m ³ /day will be released into nearby streams/tanks after treatment.	Out of total 1310 m ³ /day mine requirement, 1170 m ³ /day is for Dust suppression, 80 m ³ /day for HEMM washing, 20 m ³ /day is for Plantation, 40 m ³ /day is for domestic purpose.

14. Details of water requirement: PP submitted that the estimated water to be pumped out from the proposed project is 2400 KLD. The water requirement for the said project is 1310 KLD. The balance 1090 KLD will be released in the nearby streams and tanks after treatment.

Out of total 1310 KLD mine requirement, 1170 KLD is for Dust suppression, 80 KLD for HEMM washing, 20 KLD is for Plantation, and 40 KLD is for domestic purpose.

PP submitted that GWC was obtained for the proposed JK OC Mine vide Memo No.2182/HgII/2018-2, dated 28.02.2023. An application for renewal of NOC was submitted on 09.01.2025 and is under process.

PP also submitted that, a seasonal nallah is flowing adjacent to the ML boundary (pit – 2). It is proposed to straighten the nallah along the ML boundary and to construct an embankment between the quarry and nallah as per the guidelines of irrigation department.

15. Power requirement: The source of power for the project will be from 33 KV sub-station of TS Transco, Yellandu. This sub-station is having sufficient capacity to meet the power requirement of the project. The power requirement for this project is about 7.5 MVA. Two Transformers of 33 KV / 3.3 KV (1 No. standby) to feed power to various loads. The Sub-station is established near the entry of the quarry. From this Sub-station, 3.3 KV overhead transmission line is laid along the edge of the quarry to feed power to the equipment inside the quarry. The surface loads of workshop, stores etc., are fed by distribution transformers. The system of power supply at all the voltages in the project i.e., 3.3 KV, 550 V and 230 V is by earthing neutral as per statutory regulations.

PP also submitted that, 2 Nos of 3.3 kV HT lines (TS Transco), are passing through the excavation area (Pit-2). It is proposed to divert these power lines along the periphery of the quarry (Pit-2).

16. Public Consultation/ Hearing:

Details of advertisement given	The project covered in two districts i.e., Bhadradi Kothagudem and Khammam District of Telangana State and hence public hearing conducted in both the districts. <u>Bhadradi Kothagudem District:</u> On 26.03.2023 advertisement given in Eenadu Telugu Daily Newspaper and Hans India English Daily Newspaper. <u>Khammam District:</u> On 28.03.2023 advertisement given in Sakshi Telugu Daily Newspaper Indian express English Daily Newspaper.
Date of public consultation	Bhadradi Kothagudem District: 26.04.2023 Khammam District: 29.04.2023
Venue	<u>Bhadradi Kothagudem District:</u> In the premises of Runs & Goals Stadium, Old Colony, 24 Area, Yellandu (V&M), Bhadradi Kothagudem District, of Telangana State. <u>Khammam District:</u> In the premises of Telangana Tribal welfare residential school (Boys) (Usirikayalapalli), Shantinagar village, Singareni Mandal, Khammam district of Telangana State.
Presiding Officer	<u>Bhadradi Kothagudem District:</u> Additional Collector, Bhadradi Kothagudem District, Telangana State. <u>Khammam District:</u> Additional Collector, Khammam District, Telangana State
Number of Person Attended Hearing	Bhadradi Kothagudem District: 752 Nos Khammam District: 540 Nos
Number of representation received in writing from the district and outside of district, please give details:	Bhadradi Kothagudem District: 47 (Within district-44, outside of district-3) Khammam District: 32 (Within district-31, outside of district-1)
Major issues raised	Employment, Education and Training, Infrastructure Development, Water supply- Irrigation & Drinking, Health & Medical, Environmental measures, CSR and DMFT funds and Re-habitation & Re-settlement (R&R).

Action plan as per MoEF&CC O.M. dated 30/09/2020.

S. No.	Physical activity and action plan	Year of implementation (Budget in Rs. Lakhs)			Total (Expenditure) (in Rs Lakhs)
	Name of the Activity Physical Targets	1 st	2 nd	3 rd	
1.	Skill development trainings programmes for the un-employed youth of surrounding villages in future also as per the requirement of the local youth.	05.00	10.00	05.00	20.00
2.	Infrastructure development	70.00	70.00	70.00	210.00

S. No.	Physical activity and action plan	Year of implementation (Budget in Rs. Lakhs)			Total (Expenditure) (in Rs Lakhs)
	Name of the Activity Physical Targets	1 st	2 nd	3 rd	
3.	Water Supply to the surrounding villagers	15.00	15.00	20.00	50.00
4.	Health & Medical facilities	05.00	10.00	05.00	20.0
	Total	95.00	105.00	100.00	300.00

Activities:

Bhadradri Kothagudem District						
S. No.	Particulars	Location	1 st Year	2 nd Year	3 rd Year	Total (In Rs. Lakhs)
1	To arrange skill development training programmes for the unemployed youth for self-sustainability.	Vijaya laxmi nagar, Posapalli village, Videsinagar, Bupeshnagar, Tilaknagar	5	5	5	15
2	Renovation/new school building	Vijayalakshmi Nagar & Poosapalli village and arrange school furniture at 21 Area.	20	0	0	20
3	Repair of 6.5 km length of road, Side drains, Solar lights, Sulabh toilets.	Pakal and Gundala Road	10	0	0	10
4	Laying of CC roads	Alya thanda village, Vijayalaxminagar	10	10	0	20
5	Construction of drains	Vijaya laxmi nagar village, Posapalli village	4.5	4.5	0	9
6	Solar street lighting	Poosapalli village, Videsinagar, Balajinagar, Bupeshnagar	8	8	8	24
7	Construction of Gym	Vijayalakshmi Nagar, Tilak Nagar, Poosapalli	10	0	0	10
8	De-silting of tanks	Pedda Cheruvu , Polampalli tanks for the benefit of surrounding farmers.	10	0	0	10
9		Jendalavagu	10	0	0	10
10	Construction of community hall	Vijayalakshmi Nagar ,Poosapalli Village	10	0	0	10
11	Construction of Anganwadi centre	Rompedu village	10	0	0	10
12	Providing RO Plants	21& 24 area, Poosapalli, Tilak nagar	12.5	12.5	0	25
13	Overhead tank	R&R colony	10	0	0	10
14	Drinking pipe line	Vijayalaxminagar	5	0	0	5
15	Drinking water pipe line	R&R colony, Rompaid, Strut pit, Videsinagar, Poosapalli, Tilak nagar, 21 & 24 Areas.	5	0	0	5
16	Medical camps	Poosapalli , Tilaknagar, R&R Colony, Vijayalakshmi Nagar	5	5	5	15
17	Development of parks	Poosapalli village ,Vijayalaxmi Nagar	15	0	0	15
18	Construction of Rain Water Harvesting Structures	Strut pit basthi, 21 Area, 24 area, bhupeshnagar, romped village, 18 th ward, 19 th ward, 20 th ward, 21 st ward and 22 nd ward	10	5	0	15
Total			170	50	18	238

Khammam District						
S. No.	Particulars	Location	1 st Year	2 nd Year	3 rd Year	Total (In Rs. Lakhs)
1	To arrange skill development training programmes for the un-employed youth for self-sustainability.	Usirikayalapalli, Guttakinda gumpu Kommugudem,	2	2	1	5
2	Solar street lighting	Guttakinda gumpu village, Kommugudem	4	4	4	12
3	Construction of bus shelter	Near Solar plant gate	10	0	0	10
4	Bore well	Usirikayalapalli village	5	0	0	5
5	Medical camps	Usirikayalapalli village, Guttakinda gumpu Kommugudem	2	2	1	5
6	De-silting of tanks	Usirikayalapalli Tank, Seetarampuram tank for the benefit of surrounding farmers.	10	0	0	10
7	Construction of check dams	Guttakinda Gumpu Village, Motla gudem village	10	0	0	10
8	Construction of Rain Water Harvesting Structures	Guttakinda Gumpu Village.	5	0	0	5
Total			48	8	6	62

17. **EMP Cost:** The capital cost of the proposed project is Rs.29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 100 Lakhs. The employment generation from the proposed project is 657 (SCCL: 122 & Contractual: 535). The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Proposed (in Rs. Lakhs)	
		Capital Cost	Recurring Cost Per Annum
1	Air Pollution & Noise Control Measures	620	25
2	Water Pollution Control Measures	445	20
3	Environmental Monitoring and Management	340	30
4	Green Belt Development/ Plantation, Engineering structures & Bio reclamation works	228	25
5	Others	200	0
Total		1833.00	100.00

Activity-wise proposed EMP cost is as follows:

S. No.	Description of Item	Capital Cost in Rs. Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
A	Air Pollution & Noise Control Measures			
1	Mobile water sprinklers (4 nos.)	150	2 no.s – Before commencement and 2 no.s – within 1 year of commencement of the project.	8
2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5
3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2

4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2
5	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
Sub total		620		25
B	Water Pollution Control Measures			
1	ETP at CHP (01 no.)	40	Before commencement of the Project	5
2	ETP at Base workshop (01 no.)	40	Before commencement of the Project	3
3	STP (01 no.)	60	Within 1 year from commencement of the Project	2
4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project	3
5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses.	4
6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project	3
Sub total		445.00		20
C	Environmental Monitoring and Management			
1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years.	0
2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project.	8
3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project.	5
4	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project.	2
5	Post project environmental monitoring	0	Throughout the life of the mine.	15
Sub total		340.00		30
D	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine	25
E	Other	200		0
Grant Total (A+B+C+D+E)		1833.00		100.00

18. Details of Solid and Hazardous Waste: The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1	Overburden	Excavation	90000000	Nil	Dumping in External and Internal dump yards	Solid Waste
2	Used oil	HEMM	50	To authorized recyclers	To authorized recyclers	Hazardous Waste
3	ETP sludge	Washing of HEMM	15	To authorized recyclers	To authorized recyclers	Hazardous Waste

19. Plantation: Existing Green Belt has been developed in 110.22 ha which is about 9.8 % of the total ML area with about 2.75 Lakh saplings. Proposed green belt will be developed in 48.932 Ha with about 1.22 Lakh saplings. Thus, total of 159.152 Ha (About 14.28 % of total ML area 1114.507 ha) will be developed as green belt.

A 7.5 m wide greenbelt, consisting of 3 tier plantation around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 19.85 Lakh saplings will be planted and nurtured in 794.123 ha (Total Plantation) in 19 years. A time bound action plan along with the financial outlay, as submitted by the PP is as follows:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52

3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
Cumulative budget towards plantation			43.52

Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.

20. **Project Cost:** The capital cost for the project is Rs. 29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 100 Lakhs.

21. **Rehabilitation & Resettlement issues:** PP submitted the R&R details as follows:

JK-5 OC (2.5 MTPA): R&R was involved in JK-5 OC project in which R&R was provided to 1429 PDFs with an amount of Rs.65.38 Crores in the year 2012&13 in accordance with G.O.Ms.No.97 dated:29.08.2008.

The project involves evacuation of illegally encroached residents. However, the final decision remains with the district authorities for the same and PP has agreed to comply with the same.

JK 5 OC Expansion Project (3.5 MTPA): There is no R&R involved in the existing JK-5 OC Expansion project.

21 **Incline:** No R&R involved in this project.

22. **Legal issues/ Violation:** PP reported that there is no legal issue/ violation w.r.t. i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

23. **Written Submissions:** PP submitted the following during the meeting:

i. **Time bound action plan for plantation along with the financial outlay:** The stage-wise, cumulative plantation along with budget provision is furnished hereunder:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57
1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
Cumulative budget towards plantation			43.52

Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.

ii. **EMP measures to be bifurcated and timelines for installation of the equipment proposed:** The details of EMP measures along with cost and timelines for installation of equipment is furnished hereunder:

S. No.	Description of Item	Capital Cost in Rs.Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs
A	Air Pollution & Noise Control Measures			
1	Mobile water sprinklers (4	150	2 no.s – Before commencement and	8

	nos.)		2 no.s – within 1 year of commencement of the project.	
2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5
3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2
4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2
5	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
Sub total		620		25
B	Water Pollution Control Measures			
1	ETP at CHP (01 no.)	40	Before commencement of the Project	5
2	ETP at Base workshop (01 no.)	40	Before commencement of the Project	3
3	STP (01 no.)	60	Within 1 year from commencement of the Project	2
4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project	3
5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses.	4
6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project	3
Sub total		445.00		20
C	Environmental Monitoring and Management			
1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years.	0
2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project.	8
3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project.	5
4	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project.	2
5	Post project environmental monitoring	0	Throughout the life of the mine.	15
Sub total		340.00		30
D	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine	25
E	Other	200		0
Grant Total (A+B+C+D+E)		1833.00		100.00

iii. **CAAQMS**: It is proposed to install 1 no. CAAQMS in core zone and 1 no. in buffer zone.

iv. **Mining Plan details**: The proposed JK OC is an amalgamation of JK-5 OC and 21 Incline. The details of Mining Plan approvals are as follows:

JK 5 OC: Mining Plan & Mine Closure Plan was approved vide Lr.No.38011/12/2017-PCA, dt.12.09.2019 by Ministry of Coal. (Mine Closed).

21 Incline: Mining Plan was approved vide Lr.No.13016 (3)/88-CA, dt.22.07.1988 by Ministry of Energy, Department of

Coal. (Mine Closed).

Proposed JK OC: Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020.

Note: It is to submit that till now, the existing JK-5 OC was operated based on the MP&FMCP approved in the year 2019. Now, the proposed JK OC Mine will be operated as per the MP&MCP approved in the year 2020.

v. **Gainful utilization of water body:** The proposed mine will result in a final mine void of around 163.135 ha at a depth of around 150m. The life of the mine is 14 years and after completion of post closure activities (5 years), the void will be left as water body which acts as a ground water recharge area.

Additionally, this water can be utilised for cultivation of the surrounding area.

Further, development of pisciculture with self-help groups and installation of Pumped Storage Plant will be explored based on the experience and learnings from the proposed Pumped Storage Plant at Medapalli opencast.

vi. **Difference between percentage of green belt in application and Annexure-III**

In application form, existing and proposed green belt percentage shown against the total green belt area to be developed in the project.

The existing Green Belt of 110.22 ha is 69% of the total green belt area of 159.152 ha. Similarly, proposed green belt is 48.932 ha which is 31% of the total green belt area of 159.152 ha.

However, in the Annexure-III (Brief write-up), the existing green belt of 110.22 ha is compared with JK-5 OC project area of 490 ha and hence the percentage was mentioned as 22.48. However, now it is compared with the total project area of 1114.507 ha, thereby the existing percentage became 9.88%. Further, the proposed green belt percentage will be 4.39% ($48.932 / 1114.507$). Thus, the total green belt will be 14.28% of the total project area of 1114.507 ha.

Deliberations and Observation of the Committee:

24. The Committee noted the following:

1. The instant proposal of Jawahar Khani Opencast Coal Mine (GK OCM) is for amalgamation of Jawahar Khani-5 Opencast Expansion Project (closed in year 2024-25) and 21 Incline mine (closed) (proposed for conversion from UG to OC). In the proposed amalgamation the balance coal reserves (23 MT) from the 21 Incline Mine will be extracted by open cast method after conversion of mine from UG to OC and the voids of JK-5 OC will be filled by the overburden of 21 Incline Mine.

2. The proposal for the instant project of Jawahar Khani Opencast Mine was earlier submitted vide proposal no. IA/TG/CMIN/501551/2024 dated 27.11.2024 in prescribed format and the same was apprised in the 22nd EAC meeting of Coal, held on 17 – 18th March 2025, wherein the proposal was returned in present form due to certain shortcomings. PP submitted the fresh application for the same, along with the response to the observations of the EAC, vide proposal no. IA/TG/CMIN/533047/2025 dated 19.04.2025.

3. M/s SCCL initially obtained EC for Jawahar Khani- 5 Opencast Project, vide EC letter dated 18.05.2009 for the production capacity of 2 MTPA, in the ML area of 514.95 Ha. Further, PP obtained another EC for expansion in the same ML area for the increased production of 2.50 MTPA. However, the PP exceeded the production capacity from 2016-2020 and Ministry accorded another EC for the said mine under violation category as per S.O. 804 (E), for the production capacity of 3.50 MTPA in the reduced area of 490.14 Ha.

Similarly, M/s SCCL obtained EC for 21 Incline Underground Coal Mine, vide letter dated 27.10.2008 and closed the production from the mine during the year 2019-20.

4. As per the EC dated 09.06.2022, issued for Jawahar Khani- 5 Opencast Project, under violation category, Ministry stipulated a condition for implementation of Remediation Plan & Natural and Community Resource Augmentation Plan.

Committee observed that the PP implemented the same, got it certified by the concerned RO and got the bank guarantee released for the same after seeking amendment in the EC of Jawahar Khani- 5 Opencast Project, vide EC amendment letter dated 21.02.2025, after the recommendation of EAC.

5. Committee observed that the instant proposal also involves increase in land area from 1012.69 ha to 1114.507 ha. 1114.507 ha involves 524.96 ha (Non-forest land: 400; Forest land: 170.5077 ha) land of 21 Incline, 487.73 ha (non-forestland) of JK 5 Expansion Project and apart from this, additional 101.817 ha (Non – forestland: 59.317 ha; forestland: 42.50 ha).

6. Committee also observed that the project proponent has total 2236.96 ha of land in possession. 524.96 ha land has been obtained vide G.O.MS. No. 5, as Yellandu Mining Lease on 06.02.2015. In the instant proposal, the entire 524.96 ha land will be used.

Remaining 1712 ha has been obtained by the PP vide G.O. Rt. No. 57 as Yellandu Additional Mining Lease on 02.11.2024. Out of this only 589.547 ha will be used for the instant project. Out of remaining 1122.543 ha, 417.854 ha, which is covered under CA land will be surrendered. 651 ha land is covered under township and villages and remaining 53.60 ha land is proposed to be used for future coal extraction.

Committee opined that, the 417.854 ha of land covered under compensatory afforestation land shall be surrendered at the earliest and remaining 53.60 ha land, which is proposed to be used for future exploration of coal reserves shall be properly demarcated and not be used for the mining purpose till a fresh mining plan, EC and other applicable statutory permissions are obtained for the same.

7. Committee deliberated on the 213.0077 ha of forest land involved in the said project and observed that PP has accorded Stage – II FC for underground rights on 61.1558 ha of forest land and Stage – I FC for surface rights on 151.8519 ha of forestland.

The PP informed that, the forestland for which Stage- II FC has been accorded for underground rights will remain undisturbed throughout the life of the mine for the instant project.

The Member Secretary apprised the EAC that as per the suggestions of the Committee in the previous meeting, comments in this regard were sought from the FC Division of Ministry and the FC division gave the following clarification in this regard:

“fresh FC for 61.156 Ha is not required since, as per the proposal, the area will kept undisturbed and that no mining activity is proposed in the said area. Furthermore, as per the proposal, the said area has already received approval for UG rights as per table above. The UA has also given an undertaking to this effect.”

Committee observed the letter of PCCF, Govt. of Telangana, obtained by the PP on 24.04.2025, wherein, it is mentioned that the underground rights shall continue for the 61.1558 ha of forestland, which will not be disturbed during the opencast mining operations in the instant project.

8. Committee opined that on the 61.156 ha of forestland, which is part of the mine lease area of the instant project and is not proposed to be disturbed, PP should erect the closely spaced pillars to clearly demarcate the undiverted forest land in the lease area. PP should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same.

Committee also opined that on all the surface plans, production plans used in the project the diverted and undiverted forest areas should be clearly marked in different colours.

9. The PP obtained ToR for the said project vide F.No. IA 23-257/2018-IA(III), dated 13.12.2022 and the said is valid till 12.12.2026.

10. The EAC took into consideration the project site through KML file on the Google Earth presented by the project

proponent along with DSS of the project site on PARIVESH.

11. Project does not fall in the Critically Polluted Area (CPA)/ severely polluted Area (SPA), as per CEPI Assessment 2018.

12. The project is not located within 10 KM of any ESZ/ESA/national Park/Wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/Tigre corridor/elephant corridor etc.

13. A Wild life conservation plan for 11 schedule-I species has been prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.342.05 lakhs. An amount of Rs.342.05 Lakhs has been remitted on 15.09.2022 .

Committee opined that PP shall also prepare and implement a conservation plan for the Schedule – I species of flora, present in the study area and the compliance of same shall be submitted to the Ministry's RO within 1 year from the date of grant of EC, along with the six-monthly compliance report.

14. Mining Plan (Including Mine Closure Plan) was approved by MoC vide Lr. N.34011/1/2020-CPAM, dated 29.10.2020 for the Project Area of 1114.507 Ha of the production capacity 2.50 MTPA (rated)/ 3.75 MTPA (peak). Committee observed that, as per the suggestions of the EAC in the 22nd EAC meeting, held on 17 – 18th March 2025, the PP has reduce the depth of the void from 190 m to 150 m and according the height of OB dump will be managed. Committee opined that the PP shall accordingly modify the mine plan and the progressive mine closure plan and get it approved by the competent authority within 6 months from the date of grant of EC.

15. Total geological reserve reported in the mine lease area is 99.12 MT with 74.68 MT mineable reserves. Out of total mineable reserves of 74.68 MT, 68.57 MT are extractable reserves. Percent of extraction is 91.81%. Till 31.03.2024 about 45.57 MT of coal reserves were already extracted and the balance reserves available for extraction area 23 MT as on 01.04.2024.

16. Life of mine is 14 years (as on 01.04.2024).

17. Committee deliberated on the OB dumps proposed for the said project and observed that, there is one existing internal dump and external dump and further one more internal dump is proposed for the said project. Committee opined that no dumping shall be done outside the ML area.

18. Committee deliberated on the transportation of coal proposed for the said project and observed that, the coal from in-pit to surface and further to siding will be transported through series of conveyor and thereafter the entire coal will be transported by railway to the final consumers. Committee opined that adequate safeguards and mitigation measures shall be undertaken during the transportation of coal. Adequate nos of fixed water sprinklers shall be installed alongside the route of conveyor and plantation with native shall be developed on both the sides of the conveyor belt. Committee also opined, that no road transportation of the coal shall be allowed in the instant project.

19. Committee deliberated on the baseline data submitted by the PP. The baseline data was collected during December 2021 to February 2022 (Winter Season) and as per the observation of the 22nd EAC meeting held on 17 – 18th March 2025, PP submitted additional one season baseline data of October - December 2024 (post monsoon). Committee observed that the particulate matter 10 & 2.5 of the ambient air quality is on the higher side on the prescribed NAAQS. Committee opined that the proponent shall install adequate nos of air pollution mitigation equipment's within and around the ML area. Effective and well-designed dust suppression arrangements at all dust suppression sources and transportation route shall be provided. Proponent shall also install atleast 2 nos of CAAQMS for the instant proposal, 1 in the core zone and 1 in the buffer zone of the said mine and the same shall be connected to the server of SPCB.

20. Committee also observed that the nickel is present in high amount in the air quality of the core zone. The Committee opined that the PP shall carryout regular monitoring nickel as well along with the other AAQ parameters.

21. Committee also observed the noise quality parameters on the higher side and opined that PP shall take adequate measures to control the same. Committee opined that PP shall develop 3 – tier plantation along the periphery of the mine,

on both the sides of the coal conveyor, along the periphery of the schools present in the close vicinity of the ML area, on both the sides of the roads on which schools are located and along the village roads. Committee also observed that noise levels are also on the higher side of the permissible limits. Therefore, the PP shall cover all the DG sets and noise generating equipments with the well-designed acoustic enclosures with minimum insertion loss of 20 dB(A).

22. Committee observed that the water requirement for the said project is 1310 KLD (out of total 1310 KLD mine requirement, 1170 KLD is for Dust suppression, 80 KLD for HEMM washing, 20 KLD is for Plantation, and 40 KLD is for domestic purpose) and source of water will be mine seepage water. However water to be pumped out from the said mines is estimated to be 2400 KLD. The balance 1090 KLD will be released in the nearby streams and tanks after treatment. PP has accorded permission for water withdrawal for JK-5 OC Expansion Project vide Memo No.2182/HgII/2018-1, dated 28.02.2023 and for 21 Incline vide Lr. No.2126/Hg.II(1)/07, dated 11-04-2008. However, groundwater withdrawal permission for the amalgamated mine is yet to be obtained. Committee opined that mine operations shall be started only after obtaining a valid groundwater clearance for the same.

23. Committee opined, that as the PP is proposing a water body of 163.135 ha, post closure, PP shall explore the possibility of developing the pisciculture and installation of pumped storage plants, which shall be of help to the villagers in cultivation and livelihood activities.

24. Committee also observed that the project involves diversion of a seasonal nallah flowing adjacent to the project boundary. The same is proposed to be straightened along the project boundary and to construct an embankment between the quarry and nallah. NOC has been obtained from Irrigation Department (I&CADD), Telangana and work will be taken up as per the guidelines of I&CADD. Committee opined that PP shall conduct the aquatic health study for the seasonal nallah proposed to be diverted. Committee observed that the Bugga stream which flows from the ML area of JK OC is not proposed for diversion and the same shall be accordingly protected.

25. Apart from this, 2 nos of 3.3 kV HT lines (TS Transco), which are passing through the excavation area are also proposed to be diverted.

26. Committee further deliberated on the Public Consultation held on 26.04.2023 and 29.04.2023 for Bhadrachalam District and Khammam District respectively. The major issues raised during the public hearing were related to Employment, Education and Training, Infrastructure Development, Water supply- Irrigation & Drinking, Health & Medical, Environmental measures, CSR and DMFT funds and Re-habitation & Re-settlement (R&R). The budget for the issues raised in PH has been allocated as Rs. 300 lakhs. Committee also observed that the PP has also introduced the measures to strengthen the Public Health Centers and Community Health Centers in the study area as per the suggestions of the 22nd EAC meeting. Committee opined that the same shall be implemented in a time bound manner.

27. The project cost for the said project is Rs. Rs.29788 Lakhs and the capital cost for environmental protection measures is proposed as Rs.1833 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 100 Lakhs. Committee opined that all the EMP measures proposed by the PP shall be implemented in a time bound manner and the cost allocated for the same shall be effectively utilized. Committee also suggested that all the equipments to be procured or already have been procured for environment protection shall be in good condition working condition and regular maintenance for the same shall be carried out.

28. Committee further deliberated on the plantation already developed by the PP and further proposed to be planted. Existing Green Belt has been developed in 110.22 ha which is about 9.8 % of the total project area with about 2.75 Lakh saplings. Proposed green belt will be developed in 48.932 Ha with about 1.22 Lakh saplings. Thus total of 159.152 Ha (About 14.28 % of total project area 1114.507 ha) will be developed as green belt. PP also submitted that a 7.5 m wide greenbelt, consisting of 3 tier plantation around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 19.85 Lakh saplings will be planted and nurtured in 794.123 ha (Total Plantation) in 19 years. The details of plantation plan is as follows:

Plantation Schedule and Budget			
Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)
Up to 2024-25	230.15	230.15	3.57

1st Year	38	268.15	1.52
3rd Year	64.02	332.17	3.27
5th Year	144.533	476.703	8.96
10th Year	109.639	586.342	8.00
14th Year	140.34	726.682	11.79
Post Closure	67.441	794.123	6.41
Cumulative budget towards plantation			43.52

Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.

Committee opined that along with the plantation already done and further proposed, PP shall also develop plantation on both the side of the conveyor belt, mine facilities and the schools in the close vicinity of the ML area. The entire plantation shall be done with the native species.

29. Committee deliberated on the rehabilitation and resettlement issues for the proposed project and observed that the JK-5 OC project involved R&R of 1429 PDFs and the same has been completed. The expansion project does not involve any R&R. However, there is huge illegal encroachment and same shall be evacuated, as per final decision of the district authorities and state the government norms.

30. There is no legal issue/ violation pending on the project.

31. Committee opined that the PP shall align its activities with the sustainable development goals.

32. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

33. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

34. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

25. Based on the discussions held and the documents submitted, the EAC **recommended** the instant proposal for grant of Environment Clearance in supersession of all existing ECs issued for Jawahar Khani-5 Opencast Expansion Project and 21 Incline mine of **M/s Singareni Collieries Company Limited** under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

26. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environmental Clearance to **M/s. Singareni Collieries Company Limited** for “Jawahar Khani Opencast Mine [area: 1114.507 ha with production capacity of 2.50 MTPA (rated)/ 3.75 MTPA (peak)], located at Villages: Rompedu, Usirikayalapalli, Yellandu; District: Bhadrachalam Kothagudem & Khammam; State: Telangana” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

27. 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.

28. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable,

to the project.

29. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

30. 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.

31. General Instructions:

(i) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

(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 must display the same for 30 days from the date of receipt.

(iii) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.

(iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v) 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.

(vi) The Regional Office of this MoEF&CC 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.

(vii) Validity of EC is as per the provision of EIA Notification, 2006 and its subsequent amendment.

32. This issue with an approval of the Competent Authority.

Yours faithfully,

(Sundar Ramanathan)
Scientist 'F'
Tel: 011- 20819378
Email- r.sundar@nic.in

Copy To

1. The Secretary, Ministry of Coal, Shashtri Bhawan, New Delhi.
2. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, 3rd Floor, Room No. 309, Aranya Bhawan, Opp. RBI, Safiabab – 500004, Hyderabad, Telangana
3. The Chairman, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
4. The Chairman, Telangana State Pollution Control Board, A-3, Paryavaran Bhavan, Sanath Nagar Rd, Sanath Nagar

Industrial Estate, Sanath Nagar, Hyderabad, Telangana 500 018.

5. The Member Secretary, Telangana State Pollution Control Board, A-3, Paryavaran Bhavan, Sanath Nagar Rd, Sanath Nagar Industrial Estate, Sanath Nagar, Hyderabad, Telangana 500 018

6. The District Collector, Bhadradri Kothagudem & Khammam, State Government of Telangana

7. PARIVESH Portal.

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions

S. No	EC Conditions
1.1	No mining operations shall be undertaken in Forestland, until Stage – II forestry clearance for 151.8519 Ha Forest land is obtained under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980. Project proponent shall erect the closely spaced pillars to clearly demarcate the undiverted forest land of 61.156 ha in the lease area which will continue with the underground forest rights only and the same shall not be disturbed in the instant project. Further, project proponent should also construct fireline along undiverted forest land boundary in consultation with State Forest Department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the undiverted forest land and its boundaries so that there is no disturbance of the same. Besides, proponent shall clearly mark on all the surface plans, production plans used in the project regarding the existence of diverted and undiverted forest areas in different colours.
1.2	With respect to Yellandu Additional Mining Lease (YAML) of 1712 Ha, proponent shall surrender the 417.854 Ha of compensatory afforestation land at the earliest and ensure that no mining activity in 53.60 Ha land as committed. This shall be clearly demarcated by erecting the closely spaced pillars prior to commencement of mining activity.
1.3	Project proponent shall take all necessary action to fill the final void with overburden thereby reducing the final depth to 150 m in place of 190 m at post closure stage as committed. In this regard, the Mine Plan and Mine Closure Plan shall be revised as per the Ministry of Coal's "Guidelines for Preparation of Mining Plan and Mine Closure Plan for Coal and Lignite blocks 2025" dated 31.01.2025 and the same shall be approved by the board of M/s SCCL by 30.11.2025. Compliance of the same shall be submitted in the six-monthly compliance report.
1.4	No OB dumping is permitted outside the ML area.
1.5	Project proponent shall not divert water body except the diversion of seasonal nallah flowing adjacent to the project boundary in consultation with the State Irrigation Department and the compliance status in this regard shall be submitted to the Regional Office of MoEF&CC along with the six monthly compliance report.
1.6	2 nos of 3.3 kV HT lines (TS Transco), which are passing through the excavation area and the diversion of the same shall be carried out only after obtaining the permission from the competent authority.
1.7	Four number of Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants such as PM10, PM2.5, SO2, NOX within the lease area and outside the

S. No	EC Conditions																																			
	mine lease area in consultation with concerned SPCB within one year from the date of issue of EC and the same shall be connected to the SPCB server. The monitoring of other locations (at least three locations outside the lease area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.																																			
1.8	Project proponent shall carryout regular monitoring of nickel along with the other AAQ parameters as committed.																																			
1.9	Project proponent shall install adequate number of fixed water sprinklers alongside the route of conveyor and plantation with native shall be developed on both the sides of the conveyor belt. No road transportation of coal is allowed for the instant project as committed.																																			
1.10	Project proponent shall provide cover to all the DG sets and noise generating equipments with the well-designed acoustic enclosures with minimum insertion loss of 25 dB(A), as per CPCB norms.																																			
1.11	The Seepage water to be pumped out from the proposed project shall not exceed 2400 KLD. After meeting the mine requirement of 1310 KLD the balance 1090 KLD shall be treated in conformity to the prescribed norms and released with prior approval from TSPCB.																																			
1.12	Project proponent shall explore the possibility of developing the pisciculture and installation of pumped storage plants in the 163.135 ha of void, which is proposed to be converted into waterbody, in order to help the villagers in cultivation and livelihood activities.																																			
1.13	Project proponent shall abide by the final decision of the district collector regarding the rehabilitation of the illegal encroachment on the ML area of JK – OC.																																			
1.14	Project proponent shall implement the protective measures proposed in EMP in a time-bound manner. The budget earmarked is Rs 1855 lakhs (Capital) and Rs 100 lakhs (atleast 10% of the expenditure) (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year. Project proponent shall comply with the EMP measures as follows:																																			
	<table><tr><th>S. No.</th><th>Description of Item</th><th>Capital Cost in Rs. Lakhs</th><th>Timeline for installation</th><th>Recurring Cost Per Annum in Rs. Lakhs</th></tr><tr><td>A</td><td colspan="4">Air Pollution & Noise Control Measures</td></tr><tr><td>1</td><td>Mobile water sprinklers (4 nos.)</td><td>150</td><td>2 no.s – Before commencement and 2 no.s – within 1 year of commencement of the project.</td><td>8</td></tr><tr><td>2</td><td>Fixed water sprinklers (1000 units)</td><td>100</td><td>Within 5 years (200 units per year as the quarry progresses).</td><td>5</td></tr><tr><td>3</td><td>Fog cannons (10 nos.)</td><td>200</td><td>5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.</td><td>2</td></tr><tr><td>4</td><td>Mechanical Sweeping M/c (01 no.)</td><td>50</td><td>Before commencement of the Project.</td><td>2</td></tr><tr><td>6</td><td>CAAQMS (2 nos.)</td><td>120</td><td>Before commencement of the Project.</td><td>8</td></tr></table>	S. No.	Description of Item	Capital Cost in Rs. Lakhs	Timeline for installation	Recurring Cost Per Annum in Rs. Lakhs	A	Air Pollution & Noise Control Measures				1	Mobile water sprinklers (4 nos.)	150	2 no.s – Before commencement and 2 no.s – within 1 year of commencement of the project.	8	2	Fixed water sprinklers (1000 units)	100	Within 5 years (200 units per year as the quarry progresses).	5	3	Fog cannons (10 nos.)	200	5 no.s – Before commencement and 5 no.s – within 1 year of commencement of the project.	2	4	Mechanical Sweeping M/c (01 no.)	50	Before commencement of the Project.	2	6	CAAQMS (2 nos.)	120	Before commencement of the Project.	8
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S. No	EC Conditions			
	S. No.	Description of Item	Capital Cost in Rs. Lakhs	Recurring Cost Per Annum in Rs. Lakhs
	Sub total		620	25
	B	Water Pollution Control Measures		
	1	ETP at CHP (01 no.)	40	Before commencement of the Project 5
	2	ETP at Base workshop (01 no.)	40	Before commencement of the Project 3
	3	STP (01 no.)	60	Within 1 year from commencement of the Project 2
	4	Settling tanks (05 nos.)	75	Within 2 years from commencement of the Project 3
	5	Rock toe wall (5 km) and rock fill dams (10 nos.)	150	5 years as the mine progresses. 4
	6	1 Cu.m. Excavator (01 no.)	80	Before commencement of the Project 3
	Sub total		445.00	20
	C	Environmental Monitoring and Management		
	1	BLD and LULC studies	45	BLD completed. LULC studies will be carried out once in 3 years. 0
	2	Construction of RWHS (60 no.s)	150	Within 2 years after commencement of the Project. 8
	3	Construction of Piezometric wells (02 nos.)	45	Within 1 year after commencement of the Project. 5
	5	Dozer 320/410 HP (01 no.)	100	Before commencement of the Project. 2
	6	Post project environmental monitoring	0	Throughout the life of the mine. 15
	Sub total		340.00	30
	D	Green Belt Development / Plantation Engineering structures & Bio reclamation works	228	Throughout the life of the mine 25
	E	Other	200	0
	Grant Total (A+B+C+D+E)		1833.00	100.00
1.15	The budget proposed to address the issues raised during Public hearing is Rs. 3.00 crores. Compliance status in this regard shall be submitted to the concerned Regional Office along with the six monthly compliance report and also be uploaded on the web portal of the company. In addition to this, PP shall strengthen the existing Primary Health Center (PHC) & Community Health Center (CHC) in the study area for better public health. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.			
1.16	Plantation shall be developed in 794.123 ha area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt (159.152 ha) and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total 19.85 lakh saplings shall be planted and nurtured in 794.123 hectares			

S. No	EC Conditions																																								
	<p>in 19 years (mine life plus post closure). The plantation shall be done in the following manner:</p> <table><tr><th colspan="4">Plantation Schedule and Budget</th></tr><tr><th>Year</th><th>Plantation in ha</th><th>Cumulative Plantation in ha</th><th>Budget (in Rs. Cr)</th></tr><tr><td>Up to 2024-25</td><td>230.15</td><td>230.15</td><td>3.57</td></tr><tr><td>1st Year</td><td>38</td><td>268.15</td><td>1.52</td></tr><tr><td>3rd Year</td><td>64.02</td><td>332.17</td><td>3.27</td></tr><tr><td>5th Year</td><td>144.533</td><td>476.703</td><td>8.96</td></tr><tr><td>10th Year</td><td>109.639</td><td>586.342</td><td>8.00</td></tr><tr><td>14th Year</td><td>140.34</td><td>726.682</td><td>11.79</td></tr><tr><td>Post Closure</td><td>67.441</td><td>794.123</td><td>6.41</td></tr><tr><td colspan="3">Cumulative budget towards plantation</td><td>43.52</td></tr></table> <p>Note: Earlier the expenditure towards pre planting activities like levelling, top soil spreading, site preparation, fencing etc., were not included which are part of plantation. These activities have been now included to make revised statement.</p> <p>In addition to this, Agro forestry shall be encouraged in consultation with the land owners. Further, PP shall provide 50,000 plant saplings with 4 feet tall fruit bearing plants to farmers for plantation in barren and agriculture lands in the study area every year till the life of the mine with incentive to improve the green cover in and around the mine lease area. On identified undisturbed area, plantation should be done in first three years. Along with this, miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby schools. Apart from this, one year in advance, double of 87451 plants will be planted before felling the same from the area. Atleast 15 % of the plants, which are proposed to be felled,should be transplanted to a suitable place.</p>	Plantation Schedule and Budget				Year	Plantation in ha	Cumulative Plantation in ha	Budget (in Rs. Cr)	Up to 2024-25	230.15	230.15	3.57	1st Year	38	268.15	1.52	3rd Year	64.02	332.17	3.27	5th Year	144.533	476.703	8.96	10th Year	109.639	586.342	8.00	14th Year	140.34	726.682	11.79	Post Closure	67.441	794.123	6.41	Cumulative budget towards plantation			43.52
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1.17	Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department.																																								
1.18	PP shall carry out a survey of the impact of blasting in the nearby area/villages by involving a reputed institute and take remedial measures as proposed by the respective institute. Further, provide compensation if any for any damage caused. PP must give crop compensation to the farmers in case there is decrease in the production due to the mining activities. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office.																																								
1.19	PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation.																																								
1.20	PP shall create a “Public Grievance Redressal and Monitoring System” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “Public Grievance Redressal and Monitoring System.																																								

S. No	EC Conditions
1.21	Third-party audit (by NEERI/CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC.
1.22	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and RO of MoEF&CC.
1.23	PP shall conduct Carbon Sequestration Study including carbon emissions from coal mining. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office and also kept on the web portal of the company.
1.24	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement 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 MoEF&CC.
1.25	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.
1.26	PP shall ensure that all types of plastic waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the ML area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
1.27	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign every year, which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.

S. No	EC Conditions
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.3	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
1.4	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.5	Validity of Environment Clearance is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	Project proponent shall obtain requisite consent from State Pollution Control Board for amalgamated mine with a production capacity of 3.75 MTPA.
2.2	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO ₂ and NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board.
2.3	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.
2.4	Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, 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.
2.5	Major approach roads shall be black topped and properly maintained.
2.6	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 centres.
2.7	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
2.8	The raw coal shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire

S. No	EC Conditions
2.9	PP shall submit an action plan for using and developing Renewable Energy for its consumption in its utilities/machinery/equipment instead of using electricity from Grid/generated from Thermal Power Plants. PP shall Install additional solar power generation units.
2.10	PP shall install the weather monitoring system along with two CAAQMS shall be installed in which all the parameters like PM10, PM2.5, SO2, NOX shall be monitored.

3. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
3.1	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.
3.2	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.
3.3	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
3.4	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff.
3.5	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.
3.6	Industrial wastewater from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant (STP) of adequate capacity shall be installed for treatment of domestic wastewater.
3.7	An integrated surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done 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.

S. No	EC Conditions
3.8	The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
3.9	Industrial effluent and domestic wastewater shall be treated in the Effluent treatment Plant (ETP) and Sewage Treatment Plant (STP). After treatment, treated water shall be reused for plantation.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
4.2	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.

5. Mining Plan

S. No	EC Conditions
5.1	Project proponent shall obtain star rating as per the guidelines of Ministry of Coal.
5.2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
5.3	No change in mining method, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
5.4	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).
5.5	Environmental conditions of mining place shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
5.6	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Van (Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.

6. Land Recalvation

S. No	EC Conditions
6.1	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 MOEFCC/Regional Office (RO).
6.2	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
6.3	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.
6.4	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-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
6.5	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be 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.
6.6	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.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
7.2	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

S. No	EC Conditions
	subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
7.3	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.
7.4	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
7.5	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
7.6	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-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'.
7.7	PP should conduct epidemiology study for analysis of the distribution, patterns and determinants of health and disease conditions in defined populations.

8. Corporate Environment Responsibility

S. No	EC Conditions
8.1	The company shall have a well laid down environmental policy duly approved 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.
8.2	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 report to the head of the organization.
8.3	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.

9. Miscellaneous

S. No	EC Conditions
9.1	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

S. No	EC Conditions
	within seven days and in addition this shall also be displayed in the project proponent's website permanently.
9.2	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.
9.3	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.
9.4	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.
9.5	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.
9.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
9.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9.9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.
9.10	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.
9.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
9.14	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

S. No	EC Conditions
	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.

