



File No.: IA 23-78/2018-IA(III)
Government of India
Ministry of Environment, Forest
and Climate Change
IA Division



Dated 11/04/2025



To,

Shri G Venkateswara Reddy
M/s. Singareni Collieries Company Limited
PO: Kothagudem Collieries, Dist: Khammam, T.S, Rudrampur, Bhadradi Kothagudem, , Kothagudem,
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Subject: Venkatesh Khani OC cum UG Coal Mine (VK Coal mine) [Increase in ML area from 2291.06 ha to 2403.17 ha, with total production capacity 6.30 MTPA (OC- 5.30 MTPA; UG - 1 MTPA)] by M/s Singareni Collieries Company Limited located at Villages Rudrampur; District: Bhadradi Kothagudem; State: Telangana – Environmental Clearance–regarding

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/TG/CMIN/499413/2024 dated 3/10/2024 along with submission of written submission dated 28.03.2025 seeking for grant of prior Environmental Clearance (EC) under the provision of the 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.	EC24A0605TG5885365N
(ii) File No.	IA 23-78/2018-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	Venkatesh Khani Coal Mine (VK Coal mine)
(ix) Location of Project (District, State)	Bhadradi Kothagudem; Telangana
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	No

3. M/s. Singareni Collieries Company Limited has made an application online for the proposed Venkatesh Khani Coal Mine (VK Coal Mine) an Opencast cum Underground mine vide proposal no. IA/TG/CMIN/499413/2024 dated

03.10.2024 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 Schedule no.1 (a) (Mining of Minerals) Under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

5. The instant Proposal was considered in 22nd EAC meeting held on 17th -18th March, 2025. The written information was submitted on 28.03.2025. The MoM for the same may be seen using the web link: parivesh.nic.in.

Details submitted by the project proponent

6. The project VK Coal Mine of M/s Singareni Collieries Company Limited is located in Rudrampur Village, Chunchpalli Mandal, Bhadradri Kothagudem District of Telangana State is an opencast cum underground coal mine with a capacity of 6.30 MTPA (OC: 5.3 MTPA and UG: 1.00 MTPA) in the ML area of 2403.17 ha and is an amalgamation of three mines, namely Goutham Khani OC mine (GK OCP) (closed), Venkatesh Khani No.7 Incline (VK – 7 incline) (closed) and Padmavathi Khani No.5 Incline (PVK-5 incline) (operational) of SCCL followed by deletion of certain existing area of 107.52 Ha and addition of new area of 112.11 Ha in Kothagudem area. In this project, one opencast mine with 5.30 MTPA production capacity will operated up to 37 years and one underground mine (PVK No.5 Incline) with 1.0 MTPA capacity will be in operation for first 9 years.

7. Proposed Venkatesh Khani Coal Mine (VK Coal Mine) is an amalgamation of VK No.7 Incline (closed), GK OC (closed) and PVK No.5 Incline (operational) for Environment Clearance, formulated to –

- Extract the balance coal reserves (90.00 MT standing on pillars up to 300m depth) of VK No.7 Incline underground mine by converting into opencast mine and utilizing the voids of GK OC for dumping of OB.
- Continue the underground mining operations in PVK No.5 Incline beyond 300 m depth with continuous miner technology and LHDs for 9 years (8.3 MT) and subsequently converting into opencast mine to extract the balance coal reserves (79.50 MT standing on pillars up to 300 m depth).
- With the above sequence of mining operations, the proposed VK Coal Mine will continue as OC cum UG mine up to first 9 years, later on only OC operations will be continued. Thus, opencast mine will operate for 37 years with 5.30 MTPA capacity. Underground mine (PVK No.5 Incline) will operate at 1.0 MTPA up to 9 years.

8. **Details of previous approvals in chronological order:** PP submitted the details of previous approvals in the chronological order as follows:

Sl. 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
Venkatesh Khani No.7 Incline						
1	F.No.23-73/2018-IA.III(V)	Expansion EC under violation category as per S.O. 804 (E), dated 14.03.2017.	0.843	580.20	07.06.2021	The reserves beyond 300m depth were completely extracted and the operations in mine was stopped from 16.01.2021
Padmavathi Khani No.5 Incline						
1	F.No.J-11015/27/88-IA-II(M),	Initial EC, accorded prior to EIA Notification 1994	1.20	916.48	23.10.1992	Implemented
2	F.No.J-1105/27/88-IA-II(M)	EC under re- validation category as per EIA Notification 2006 and its subsequent amendments thereto.	0.825		09.06.2021	
Goutham Khani OC Mine						
1	F.No.J-11015/46/89-JA-	Initial EC, accorded prior to EIA Notification 1994	2.00	1113	13.01.1993	Implemented Coal mining

	11(M),					operations stopped
2	F.No.J-11015/46/89JA -11(M)	Additional Environmental Conditions for EC dated 13.01.1993.	2.00	1113	09.05. 2001	from 14.08.2023 due to exhaustion of coal reserves.
3	F.No.23-254/2018-IA.III(V)	Expansion EC under violation category as per S.O. 804 (E), dated 14.03.2017 with reduction in lease area to 902 Ha	4.00	902.00	20.05.2021	

Total ML area = 580.20 + 916.48 + 902 = 2398.68 Ha

9. Production details of the existing EC: W.r.t the previous approvals, PP submitted the actual production details of the VK-7 Incline, PVK-5 Incline and GK OC from 1993-94 respectively. CTO has been obtained from the Telangana State Pollution Control Board for VK-7 Incline, PVK-5 Incline and GK OCP and are valid up to 31.03.2022, 30.09.2026, 30.9.2026 respectively (VK-7 Incline mine closed on 16.01.2021). Details of the same are as follows:

It is pertinent to mention that Ministry accorded EC for VK Khani No. 7 Incline and GK OCM under violation category and the proponent was supposed to implement the Remediation Plan and Natural & Community Resource Augmentation Plan (RP&NCRAP). MoEF&CC vide letters dated 13/01/2025 and 21/02/2025 amended the ECs accorded to VK Khani No. 7 Incline and GK OCM for the release of bank guarantee by the TSPCB as the proponent has completed the implementation of RP & NCRAP.

A) VK-7 Incline:

Year	Actual Coal production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
1993-94	0.843		0.843
1994-95	0.622		0.622
1995-96	0.575		0.575
1996-97	0.511		0.511
1997-98	0.466		0.466
1998-99	0.457		0.457
1999-00	0.455		0.455
2000-01	0.714		0.714
2001-02	0.700		0.700
2002-03	0.437		0.437
2003-04	0.354		0.354
2004-05	0.188	Mine was operated on 1993-94 base level production without EC. MoEF&CC granted EC under violation category for 0.843 MTPA on 07.06.2021. Mine closed due to exhaustion of reserves beyond 300 m on 16.01.2021.	0.188
2005-06	0.253		0.253
2006-07	0.290		0.290
2007-08	0.350		0.350
2008-09	0.375		0.375
2009-10	0.359		0.359
2010-11	0.655		0.655
2011-12	0.439		0.439
2012-13	0.653		0.653
2013-14	0.697		0.697
2014-15	0.549		0.549
2015-16	0.569		0.569
2016-17	0.454		0.454
2017-18	0.396		0.396
2018-19	0.437		0.437
2019-20	0.416		0.416
2020-21	0.313		0.313

2021-22	Nil	0.843	Mine closed
2022-23	Nil	0.843	
2023-24	Nil	0.843	

B) PVK-5 Incline:

Year	Actual Coal production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
1990-91	0.251	1.20	Nil
1991-92	0.280	1.20	Nil
1992-93	0.360	1.20	Nil
1993-94	0.406	1.20	Nil
1994-95	0.292	1.20	Nil
1995-96	0.788	1.20	Nil
1996-97	1.108	1.20	Nil
1997-98	0.800	1.20	Nil
1998-99	0.656	1.20	Nil
1999-00	0.591	1.20	Nil
2000-01	0.811	1.20	Nil
2001-02	0.395	1.20	Nil
2002-03	0.400	1.20	Nil
2003-04	0.432	1.20	Nil
2004-05	0.429	1.20	Nil
2005-06	0.257	1.20	Nil
2006-07	0.348	1.20	Nil
2007-08	0.183	1.20	Nil
2008-09	0.148	1.20	Nil
2009-10	0.231	1.20	Nil
2010-11	0.235	1.20	Nil
2011-12	0.249	1.20	Nil
2012-13	0.381	1.20	Nil
2013-14	0.332	1.20	Nil
2014-15	0.298	1.20	Nil
2015-16	0.2880	1.20	Nil
2016-17	0.2660	1.20	Nil
2017-18	0.3020	1.20	Nil
2018-19	0.3050	1.20	Nil
2019-20	0.2100	1.20	Nil
2020-21	0.0790	1.20	Nil
2021-22	0.2120	0.825	Nil
2022-23	0.2130	0.825	Nil
2023-24	0.2057	0.825	Nil

C) GK OCP:

Year	Actual Coal production in MTPA	Planned coal production in MTPA as per Environmental Clearance	Excess Production
1993-94	0.12	2.0	Nil
1994-95	0.37	2.0	Nil
1995-96	0.72	2.0	Nil
1996-97	0.77	2.0	Nil
1997-98	0.71	2.0	Nil
1998-99	1.10	2.0	Nil
1999-00	1.40	2.0	Nil

2000-01	1.60	2.0	Nil
2001-02	2.35	2.0	0.35
2002-03	2.61	2.0	0.61
2003-04	2.64	2.0	0.64
2004-05	2.93	2.0	0.93
2005-06	2.95	2.0	0.95
2006-07	2.90	2.0	0.90
2007-08	2.79	2.0	0.79
2008-09	3.35	2.0	1.35
2009-10	3.59	2.0	1.59
2010-11	3.32	2.0	1.32
2011-12	3.22	2.0	1.22
2012-13	3.20	2.0	1.20
2013-14	2.85	2.0	0.85
2014-15	2.41	2.0	0.41
2015-16	2.73	2.0	0.73
2016-17	3.24	2.0	1.24
2017-18	3.42	2.0	1.42
2018-19	3.93	2.0	1.93
2019-20	3.99	2.0	1.99
2020-21	2.533	2.0	0.533
2021-22	3.314	4.0	Nil
2022-23	0.656	4.0	Nil
2023-24	0.127	4.0	Nil Mine Closed on 14.08.2023

10. Certified Compliance Report: The Status of compliance of earlier EC for all the three mines were obtained from Regional Office, Hyderabad vide letter no. ENV/IRO-HYD/CCR-52/A/2021, dated 04.10.2024. The Action taken report regarding the partially/non-complied condition was submitted to Regional officer MoEF&CC, vide letter no. KGM/GKOC/PO/64/284, dated: 22.10.2024. MoEF&CC (RO), evaluated the same and has issued letter dated 24.10.2024.

11. Environmental Site Settings: The ML area is covered under Survey of India Topo Sheet No. 65C/10, 65C/11 and is bounded by the geographical coordinates ranging from Latitudes N 17° 26' 14.52" to N 17° 31' 32.95" & Longitudes E 80°37'50.80" to E 80°41'31.08". The DGPS coordinates of the ML area are given in Table no. 1.3 of EIA Report. Project does not fall in the Critically Polluted Area (CPA) / Severely Polluted Area (SPA), as per CEPI Assessment 2018.

Forest Area: The project involves a total of 1568.22 ha of forest land and the details of the approval already obtained or applied for is as follows:

S. No	Obtained vide letter No.	Area (ha)	Stage I/ II	Validity	Remarks
	8-05/2021-FC dated: 30.09.2024.	649.301	Stage I	Co-terminus with mining lease up to 31.03.2030	This forest land is having Underground rights (Stage-II obtained vide Lr. No.8-277/85-FC, dated: 17.02.2009) which is covered in PVK-5 Incline and VK-7 Incline underground mines. Now these underground rights have been converted to surface rights for which Stage-I has been obtained. Subsequently, after obtaining EC, Stage-II will be obtained.
	8-117/2002-FC Dated: 01.02.2010.	161.31	Stage II	Up to 31.01.2030	This FL is covered in GK OC project.

	8-62/2005-FC dated 30.09.2024.	154.96	Stage I	Co-terminus with mining lease up to 31.03.2030	This FL is covered in GK OC project for which earlier Stage-II was obtained vide 8-62/2005-FC, 15th July, 2008 for quarry operations. In the present proposal this area will be utilised for dumping of OB. Hence, stage-I has been again obtained for change of land use to this area for dumping of OB.
	8-17/1998-FC (VOL) dated: 24.09.2024.	124.00	Stage I	Co-terminus with mining lease up to 31.03.2030.	This FL is covered in GK OC project for which earlier Stage-II was obtained vide 8-17/98-FC, 8th February, 1999 for quarry operations. In the present proposal this area will be utilised for dumping of OB. Hence, stage-I has been again obtained for change of land use to this area for dumping of OB.
	No.1435/ For.I(1)/2022, dated:24.02.2023	5.20	Stage II	Co-terminus with mining lease up to 31.03.2030	This FL is covered in VK-7 Incline.
	G.O.Ms No. 41 dated: 22.08.2024.	2.85	Stage II	Co-terminus with mining lease up to 31.03.2030	This FL is covered in PVK-5 Incline.
	8-227/ 1985 FC (Vol.I) Dated 120.5.2021.	0.90	Stage II	Co-terminus with mining lease up to 31.03.2030	This FL is covered in PVK-5 Incline.
	Lr. No.8-277/ 85-FC, dated:17.02.2009	469.699	Stage II	Up to 16.02.2029	This forest land is having Underground rights (Stage-II) which is covered in PVK-5 Incline and VK-7 Incline underground mines.

Out of 1568.22 Ha of forest land, Stage II FC and Stage I FC is available for 639.959 Ha and 928.261 respectively. Total broken forest in the existing ML area is 449.22 ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Protected Area: The project is not located within 10 KM of any ESA/ National Park/ Wildlife Sanctuary/ Biosphere Reserve/ Tiger Reserve/ Elephant Reserve/ Tiger Corridor/ Elephant Corridor etc.

However, the project lies at a distance of 6.33 kms away from the Eco- Sensitive Zone boundary of Kinnerasani Wildlife Sanctuary (ESZ notified by MoEF&CC vide S.O.2859(E) date 30.08.2017). In view of is, permission from SCNBWL is not applicable. A Wild life conservation plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden recommended for providing a sum of Rs.731.60 Lakhs for taking up wildlife mitigation measures, vide Rc. No. 5694/20221/WL-1, dated 14.02.2024 and the amount was deposited for implementation of the WLCP.

Mine Lease Details: The total ML area is 2403.17 ha. Details of the same are as follows:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1	The ML area is covered in amalgamation of 2 nd Renewal of mining lease (Kothagudem Mining Lease - 5158 ha) and 1 st Renewal of mining lease (Goutham Khani Opencast Mining Lease-161.31 ha) over an extant of 5319.31 ha granted vide G.O.Ms. No.15, dated 15.03.2024, valid up to 31.03.2030.	2403.17
2	Details of LOI (for area outside lease area)	Nil
Grand Total		2403.17

Land details of existing and proposed project:

EXISTING (of all three mines)			
Name of the Mine	Non-Forest Land (Ha)	Forest Land (Ha)	Total (Ha)
GK OC	361.73	540.27	902
Removed	14.86	87.7	- 102.56
VK-7	233.54	346.66	580.2
Removed	5.06	-	-5.06
PVK-5	147.49	768.99	916.48
Existing	722.84	1568.22	2291.06 (2398.68 – 107.62)
VK Coal Mine (proposed project)			
Existing	722.84	1568.22	2291.06
Additional land	112.11	0	112.11
Total	834.95	1568.22	2403.17 (2291.06 +112.11)

Other Sensitive Receptors:

Project site proximity to sensitive area i. Habitation iii. River/Waterbody iv. Forest v. Archaeological Survey of India (ASI) protected site vi. Any other	i. Habitation (within 5 km)		
	Village	Distance (km)	Direction
	Penagadapa	0.2	E
	Rudrampur colony (SCCL)	0.2	W
	Ramavaram	0.8	NW
	Penuballi	0.15	N
	Tippanapalli	2.00	S
	Kothagudem(part)	3.00	NW
	Repallewada	4.6	SW
	Sethagudem	4.75	SE
	ii. School: (Within 5 km)		
	Schools	Distance (km)	Direction
	Penagadapa	0.5	E
	Rudrampur	0.35	W
	Dhanbad	0.3	NW
	Ramavaram	0.8	NW
	Guthampur	.66	W
	Tippanapalli	2.1	S
	Repallewada	4.7	SW
	Sethagudem	4.9	SE
	iii. River/Waterbody (Within 5 Km)		
	River/ Nallah	Distance (km)	Direction
	TellaVagu	0 (Core Zone)	E-NW
	Goduma Vagu	2.36	NW
	Muredu Vagu	2.61	NW
	iv. Forest (Within 5 Km)		
	Reserved/Protected forests	Distance (km)	Direction
	Ramavaram RF	Core	--
	Pengadadapa RF	2	SE
	Chatakonda RF	4	N
	Mulkalapalli RF	5	E
	v. ASI protected site: None within 10 km radius from ML boundary.		
	vi. Any other: Nil		

About 2 km length of National highway (NH-30) (from Kothagudem towards Vijayawada) is passing over the ML area. It is proposed to divert the road in phases to facilitate OC operations. After 15 years road will be re-stored to its original position. NOC was obtained from the R&B department for diversion of road vide Lr. No. 3773/DCE/NH/DEEII/AEF/2019, dated 06.04.2021.

12. Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
08.09.2021	Vide F.No. IA 23-78/2018-IA(III)	27.10.2021	26.10.2025

13. Method of Mining and Mine Plan: The Mining Plan including Mine Closure Plan was approved by MoC vide Lr. No.38011/12/2017-PCA, dated 27.01.2020 for the ML area of 2403.17 Ha with production capacity of 6.30 MTPA (OC: 5.3 + UG: 1).

i. Method of mining proposed is Opencast cum underground mining using shovel dumper combination for opencast and continuous miner & LHDs for underground.

ii. Total geological reserve reported in the mine lease area is 447.99 MT with 338.28 MT mineable reserves. Out of total mineable reserves of 338.28 MT, 317.16 MT are extractable reserves. Percent of extraction is 93.7 %. Till 31.03.2024 about 139.31 MT of coal reserves were already extracted and the balance reserves available for extraction area 177.85 MT(OC: 169.56 MT, UG: 8.29 MT).

iii. Six seams with average thickness ranging from 0.61 m to 11.09 m are workable.

iv. Grade of coal is G-10.

v. Average stripping ratio is 1:8.43.

vi. Life of mine is OC: 37 years, UG: 9 years (as on 01.04.2024).

vii. Top Soil Management:

- Quantity of Top Soil to be generated: 9.81 M. Cu.m
- Storage of Top Soil: Temporary dumps
- Handling/Utilization of Topsoil: External dump – 2.30 M. Cu.m; Internal dump - 7.51 M. Cu.m
- Number of Top Soil Dumps: 3 no. (Temporary Dump)

viii. Details of OB Dump:

i. 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 (GK OC)	1	183.71	1	139.10	No
Proposed	0	1475.75	0	42.61	No
Total	1	1659.46	1	181.71	No

ii. Specification of Each Dumps:

S. No.	Area (ha)	Height (m)	Quantity (M. Cm)	Type (Internal/External)
1	349.11	80	181.71	External
2	958.25	120	1659.46	Internal

ix. Land – use details:

A. Pre mining land use:

S. No.	Description	Within the lease (ha)	Outside the lease (ha)	Total (ha)
1	Agricultural	--	Nil	--
2	Forest Land	1568.22		1568.22
3	Waste Land	--		--
4	Grazing	--		--
5	Barren	--		--
6	Water Bodies	--		--
7	Other (patta land)	10.99		10.99
8	Other (Govt Assigned land)	25.75		25.75
8	Others (SCCL Land)	798.21		798.21
Total		2403.17	Nil	2403.17

B. Post – mining land use:

S. No	Type	Total area (ha)	Reclaimed area (ha)	Un-reclaimed area (ha)
1	Excavation/Quarry area			
	(a) Backfilled areas	958.246	947.876	10.37
	(b) Excavated void	386.334	-	386.334
2	External dump	349.110	349.110	-
3	Green belt/Safety zone	167.280	152.740	14.54
4	Roads	0.850	-	0.850
5	Stowing arrangements etc., & earlier diverted nallah	6.571	6.571	-
6	Infrastructure Area	65.080	65.080	-
7	Undisturbed FL with UG rights	469.699	-	469.699
Total		2403.170	1521.377	881.793

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

- **In pit to surface:** Coal from underground workings to surface through series of conveyor belts. Coal from pit to pithead by dumpers/conveyor belts.
- **Surface to siding:** Surface pithead to Coal Handling Plant (where GL bunkers near the Railway Siding are located) with belt conveyors.
- **Siding to loading:** From GL bunkers, the coal is transported to Rapid Loading system for loading into railway wagons for final dispatch to consumers by Rail.
- **Quantity being transported by Road/Rail/conveyor/ropeway:** 6.30 MTPA by Rail

xi. **Details of reclamation:** Afforestation shall be done progressively covering an area of 1521.377 ha at the end of mining. This will include:

- Reclaimed external OB dump (in ha): 349.110
- Internal dump: 947.876 ha (Backfilled area)
- Green belt: 152.740 ha
- Density of tree plantation (in no of plants): 2500 per ha
- Void in 386.334 ha at a depth of 300 m which is proposed to be converted into water body
- Others in ha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc.): 71.651 ha (Stowing arrangements etc., & earlier diverted nallah: 6.571 ha and Infrastructure Area: 65.080 ha)
- Agriculture and horticulture: Nil
- ECO park: One Eco-Park is developed within the leasehold in an area of 6 ha.

14. **Baseline Data:** Baseline data was originally collected during October – December, 2021. Further, the data was revalidated by collecting fresh data during March – May, 2024.

Period	March to May 2024 (Summer Season)				Additional Study (if any)
Core Zone					Cumulative Impact Assessment Study, carrying capacity and ecosystem services study within 10 km radius of the proposed project including the presence of the coal mine and other industries,
AAQ parameters at 3 Locations (min and max)	PM _{2.5} = 21.2 to 75.8 µg/m ³ PM ₁₀ = 55 to 180 µg/m ³ SO ₂ = 11.9 to 17.2 µg/m ³ NO _x = 17.96 to 26.4 µg/m ³				
Buffer Zone					
AAQ parameters at 10 Locations (min and max)	PM _{2.5} = 17.0 to 27.0 µg/m ³ PM ₁₀ = 40.0 to 66.0 µg/m ³ SO ₂ = 10.8 to 16.5 µg/m ³ NO _x = 16.1 to 25.0... g/m ³				
Core Zone					
Incremental GLC Level	PM ₁₀ = 32.05 µg/m ³ PM _{2.5} = 11.44 µg/m ³ SO ₂ = 1.35 µg/m ³ NO _x = 3.68 µg/m ³				
Buffer Zone					
Incremental GLC Level	PM ₁₀ = 12.36 µg/m ³ (Level at 0.47 km in E direction) PM _{2.5} = 8.14 µg/m ³ (Level at 0.27 km in NW direction) SO ₂ = 2.05 µg/m ³ (Level at 0.27 km in NW direction) NO _x = 2.01 µg/m ³ (Level at 0.27 km in NW direction)				
Ground water quality at 6 Locations	pH: 7.8 to 8.5, Total Hardness: 258 to 502mg/l, Chlorides: 67 to 166 mg/l, Fluoride: 0.32 to 0.95 mg/l. Heavy metals: The concentrations of heavy metals Cadmium (Cd), Manganese (as Mn), Copper (Cu), Lead (Pb), Selenium (as Se), Arsenic (as As), Chromium (Cr), Nickel (Ni) and Aluminum (as Al) were either below the detection limits or below the permissible limits.				
Surface water Quality at 6 Locations	pH: 7.0 to 8.3; DO: 5.2 to 6.5 mg/l and BOD: 2.6 mg/l to 4.0 mg/l. COD from 18 to 26 mg/l				
Noise levels Leq (Day and Night)	In core zone Leq Day maximum value is 63.0 dB(A) and minimum is 57.6 dB(A) and Leq Night maximum value is 48.4 dB(A) and minimum is 40.0 dB(A). In buffer zone maximum value of Leq Day is 51.8 dB(A) and minimum is 48.6 dB(A) and maximum value of Leq Night is 42.0 dB(A) and minimum is 38.4 dB(A).				
Traffic assessment study findings	Traffic study has been conducted at NH-30 which approximately 0.25 km from the mine site. There is no Coal transportation by road however traffic study has been conducted to know the prevailing traffic volumes on the existing approach roads to the ML area. Existing PCU is 0.53 PCU/hr onNH-30 and existing level of service (LOS) is 'C':				
	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS
	Kothagudem - Vijayawada near GK OCP mine Junction	799	1500	0.53	c
Flora and fauna	Presence of schedule I fauna and endangered Flora if any. Yes. The flora & fauna study reveals presence of 23 schedule-I faunal species are in the study area of the project. A detailed Wild life conservation plan was prepared for conservation of the schedule-I species with an amount of Rs. 731.60 lakhs and was approved by the PCCF (HoFF) &				

Period	March to May 2024 (Summer Season)			Additional Study (if any)
	CWW, Telangana vide reference No. 5694/2021/WI-1 dated: 14.02.2024.			
Water Requirement	000			
	Source of Water	Other (if any)	Pumped out seepage water	
	Ground Water Intersection	6.89 m		
	NOCs (Surface Water/ Ground Water)	Ground water clearance for the proposed VK Coal Mine was obtained vide Lr no.321/SCCL /2021, dt.16/10/2024.		
	Water Requirement	The estimated water to be pumped out from the proposed project is about 8660 KLD. After meeting the mine requirement of 3750 KLD and colony requirement of 2000 KLD the balance 2910 KLD will be is released into nearby streams/tanks after treatment.	Out of total 3750 KLD mine requirement, 100 KLD is for domestic purpose, 3100 KLD is for Dust suppression, 350 KLD is for Plantation/ Gardening and the balance KLD is been utilized for Washing of Others (HEMM/ Workshop).	

15. Details of Water Requirement: PP submitted that the estimated water to be pumped out of Seepage water from the proposed project is about 8660 KLD. After meeting the mine requirement of 3750 KLD and colony requirement of 2000 m3/day the balance 2910 KLD will be is released into nearby streams/tanks after treatment. Out of total 3750 KLD mine requirement, 100 KLD is for domestic purpose, 3100 KLD is for Dust suppression, 350 KLD is for Plantation/ Gardening and the balance 200 KLD is been utilized for Washing of Others (HEMM/Workshop). Ground water clearance for the proposed VK Coal Mine was obtained vide Lr no.321/SCCL /2021, dt.16/10/2024.

PP also submitted that there is no river/ nallah diversion proposed for the instant project.

16. Public Consultation/ Hearing:

Details of advertisement given	17.03.2022 Namasthe Telangana Telugu Daily Newspaper and The New Indian Express English Daily Newspaper
Date of public consultation	19.04.2022
Venue	Government Polytechnic College, Rudrampur (V), Chunchupalli (M), Bhadradi Kothagudem District
Presiding Officer	Additional Collector, Bhadradi Kothagudem District, Telangana State
Number of Person Attended Hearing	350
Number of representation received in writing from the district and outside of district, please give details:	Total 55 written representations received in the public hearing of which 38 received from within the district and 17 are from outside of the district.
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	4 th	5 th	6 th -10 th	11 th - 20 th	
1.	Skill development training programmes for the un-employed	10	10	10	10	10	50	100	200

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	4 th	5 th	6 th -10 th	11 th - 20 th	
	youth of surrounding villages.								
2.	To improve educational facilities in surrounding villages (renovation of school building and providing furniture etc.)	10	10	10	10	10	--	--	50
3.	Infrastructure development in the surrounding villages	20	140	160	40	--	--	--	360
4.	Water Supply to the surrounding villagers	--	10	10	--	--	--	--	20
5.	Health & Medical facilities	2	2	2	2	2	10	--	20
6.	Wind barrier around CHP for dust control.	--	--	50	50	50	--	--	150
7.	Construction of Rain water harvesting pits in surrounding villages.	10	--	--	--	--	--	--	10
8.	De-silting of tanks of project surrounding villages	30	30	40	--	--	--	--	100
Total		82	202	282	112	72	60	100	910

Activities

S.No	Particulars	Location (name of Village/school/Area)	Years								Total (In Lakhs)
			1 st	2 nd	3 rd	4 th	5 th	6 th -10 th	11 th -20 th		
1	Skill development training programmes for the un-employed youth.	Kothagudem, Penagadapa, Ramavaram, Rudrampur, Dhanbad, Gareebpeta, Penuballi, Rampur, Tippanapalli etc.	10	10	10	10	10	50	100	200	
2	Improving educational facilities.	Kothagudem, Penagadapa, Ramavaram, Rudrampur, Dhanbad, Gareebpeta, Penuballi, Rampur, Tippanapalli etc.	10	10	10	10	10	--	--	50	
3	CC roads	Penagadapa, Gareebpeta Rampur Ambedkar Nagar	--	30	30	30	--	--	--	90	
4	CC drains	Penagadapa, Gareebpeta Rampur Ambedkar Nagar	--	20	20	10	--	--	--	50	
5	Community hall	Penagadapa Gareebpeta	--	50	40	--	--	--	--	90	
6	Agriculture godown	Penagadapa Rampur	--	40	40	--	--	--	--	80	
7	Renovation of Gram Panchayat offices	Penagadapa Ambedkar Nagar Rampur	--	--	30	--	--	--	--	30	
8	Compound wall and provide solar lighting for	Nava Bharat	20	--	--	--	--	--	--	20	

S.No	Particulars	Location (name of Village/school/Area)	Years							Total (In Lakhs)
			1 st	2 nd	3 rd	4 th	5 th	6 th -10 th	11 th -20 th	
	protection of cows near Nava Bharat area.									
9	Bore wells with hand pumps	Penagadapa Ambedkar Nagar Rampur	--	10	10	--	--	--	--	20
10	Medical camps once in quarter, (Expenditure for only medicines, Doctor wages and other expenses are not included)	Penagadapa, Ramavaram, Dhanbad, Gareebpeta, Penuballi, Rampur, Tippanapalli etc.	2	2	2	2	2	10	--	20
10	Wind barrier around CHP for dust control.	Maya bazaar Area	--	--	50	50	50	--	--	150.00
11	Construction of Rain water harvesting pits in surrounding villages for augmentation.	Kothagudem, Penagadapa, Ramavaram, Rudrampur, Dhanbad, Gareebpeta, Penuballi, Rampur, Tippanapalli etc.	10	--	--	--	--	--	--	10.00
12	De-silting of tanks of project surrounding villages	Erra cheruvu Kista rayudu cheruvu Pedda cheruvu Gareebpeta cheruvu	30	30	40	--	--	--	--	100.0
Total			82	202	282	112	72	60	100	910

17. EMP Cost: The capital cost of the proposed project is Rs.48451 Lakhs and the capital cost for environmental protection measures is proposed as Rs.2742 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 894 Lakhs @ 14.20 Rs/T. The employment generation from the proposed project / expansion is direct 2266 (SCCL: 1266 (OC-401, UG-865 & Contractual: 1000 Indirect). The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing		Proposed	
		Capital Cost in lakhs	Recurring Cost in Lakhs	Capital Cost in lakhs	Recurring Cost in Lakhs
A	Air Pollution & Noise Control measures				
1	Mobile water sprinklers	200.00	20.00	135.00	44.01
2	Fixed water sprinklers	70.00	5.00	50.00	10.00
3	Fog cannons	90.00	15.00	200.00	30.00
4	Mechanical Sweeping M/c	0.00	0.00	100.00	40.00
5	Motor garder 280 HP	300.00	25.00	275.00	89.65
6	CAAQMS	90.00	20.00	100.00	32.60
Sub total		750.00	85.00	860.00	246.26
B	Water Pollution Control				
1	ETP at CHP	20.00	10.00	25.00	18.50
2	ETP at Base workshop	20.00	10.00	50.00	26.30
3	STP 1.5 MLD	263.00	35.00	300.00	47.80
4	Settling tanks	117.00	10.00	50.00	16.30
5	Rock toe wall and rock fill dam	150.00	25.00	450.00	46.70

6	1 Cu.M Excavator	80.00	33.00	80.00	46.20
Sub total		650.00	123.00	955.00	201.80
C	Environmental Monitoring and Management				
1	BLD and LULC studies	60.00	0.00	25.00	0.00
2	Construction of RWHS	60.00	5.00	130.00	12.38
3	Construction of Piezometric wells	40.00	10.00	25.00	18.15
4	Tyre mounted Back hoe loader	50.00	5.00	62.00	46.20
5	Dozer 320/410 HP	270.00	20.00	340.00	110.84
6	Post project environmental monitoring	0.00	80.00	0.00	100.00
Sub total		480.00	120.00	582.00	287.57
D	Green Belt Development, Engineering structures & Bio reclamation works	101.00	15.00	90.00	29.34
E	Plantation	0.00	63.00	0.00	129.03
F	Other	220.00	0.00	255.00	0.00
Grant Total (A+B+C+D+E)		2201.00	406.00	2742.00	894.00

18. Details 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
1	Solid Waste	Excavation of Overburden material	106,40,000	--	Dumping in External and Internal dump yards
2	Plastic Waste	Domestic waste from Site office	0.01	--	Sold to authorized vendor
3	Hazardous Waste (Used Oils)	HEMM and other mining equipment's	80	--	Authorized CPCB recyclers
4	E Waste	Computers, switches and cables etc.	0.1	--	Authorized vendors as per E waste management 2022
5	Battery waste	HEMM and other vehicles	1.5	--	As per battery waste management rules 2022, waste will be sold to Authorized vendors for recycling
6	Biomedical waste	Dispensary	0.001	--	Incineration by nearby hospitals or authorized vendors.

19. Power Requirement and details of diversion of Hi-Tension/ Transmission Line: The source of power for the project will be from 132 kV sub-station located at Kothagudem, from there 33kV line is extended up to Anand Khani substation near Gautam Khani OC Mine, Kothagudem Area. The Power requirement for this project will be about 10 MVAh. Power received at surface sub-station will be stepped down to 3.3 kV for distribution and utilization.

During the initial years the power supply for the project will be taken from the existing substation at VK. No.7 Incline Mine. Subsequently the existing sub stations will be shifted near the pit head of the proposed VK Coal Mine by diverting the existing line from 132 KV sub-station at Kothagudem.

20. Plantation: Plantation will be developed in 1521.377 ha which is about 63.3 % of the total ML area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt (152.74 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 no. of 3803425 saplings will be planted and nurtured in 1521.377 hectares in 40 years the life of the project.

S. No.	Stage	Safety zone/Green Belt/ Rationalization area		External Dump		Back Filled Area		Other Area (infrastructure area)		Total	
		Area (ha)	No. of	Area (ha)	No. of	Area (ha)	No. of	Area (ha)	No. of	Area (ha)	No. of trees

			trees		trees		trees		trees		
1	Y-3	30.62	76550	226.90	567250	0.00	0	0	0	257.520	643800
2	Y-5	30.62	76550	285.47	713675	0.00	0	0	0	316.090	790225
3	Y-10	30.62	76550	349.11	872775	44.04	110100	0	0	423.770	1059425
4	Y-20	61.28	153200	349.11	872775	333.80	834500	0	0	744.190	1860475
5	Y-30	83.90	209750	349.11	872775	560.35	1400875	2.14	5350	995.500	2488750
6	Y-37 (Final stage)	83.90	209750	349.11	872775	914.65	2286625	18.79	46975	1366.457	3416125
7	Post closure	152.74	381850	349.11	872775	947.87	2369675	71.65	179125	1521.370	3803425
Total		152.74	381850	349.11	872775	947.87	2369675	71.65	179125	1521.377	3803425

21. Project Cost: The total capital cost submitted by the project is Rs. 484.51 Crores. Cost for implementing EMP (Capital and Recurring both) will be: Capital cost Rs. Rs.2742 Lakhs and Revenue Cost Rs. Rs 894 Lakhs/ Annum.

22. Rehabilitation & Resettlement issues: The project involves R&R of 286 PDFs. R&R is being provided as per the provisions of the RFCTLARR Act, 2013 and accordingly Government of Telangana issued G.O.Ms.No.44 Dated: 03.05.2023 for establishment of R&R colony to all 286 PDFs.

Expenditure incurred till date at R&R colony: Land cost: Rs.2.32 Crores, Roads & drains development: Rs.2.66 Crores, Establishment of power lines: Rs.2.02 Crores, Water supply arrangements: Rs.0.87 Crores.

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

24. Written Submissions: Project proponent submitted the following written submission:

- As per the approved Mining Plan and Mine Closure Plan, the final void depth of the proposed Venkatesh Khani Coal Mine is 300 m. However, it is proposed to fill the final void with overburden thereby reducing the final depth to 200 m at post closure stage.
- Revised Public Hearing action plan with updated budget has been submitted.

Deliberations and Observation of the Committee:

25. The Committee noted the following:

1. The instant project Venkatesh Khani Coal Mine (VK Coal Mine) of M/s Singareni Collieries Company Limited, is for obtaining Environment Clearance for amalgamation of Venkatesh Khani No.7 Incline (closed the mining operations in the year 2021), Goutham Khani OC Mine (closed mining operations in the year 2023) and Padmavathi Khani No.5 Incline (operational) followed by deletion of certain existing area of 107.52 Ha and addition of new area of 112.11 Ha. The Venkatesh Khani OC cum UG Coal Mine (VK Coal mine) is for increase in lease area from 2291.06 ha to 2403.17 ha, with production capacity 6.30 MTPA (OC- 5.30 MTPA; UG- 1 MTPA).

2. Committee observed that M/s SCCL originally obtained EC for Venkatesh Khani No.7 Incline on 07.06.2021 vide letter F.No.23-73/2018-IA.III(V) for production capacity of 0.843 MTPA in the ML area of 580.20 ha, under violation category as per the provisions of S.O. 804 (E). VK No. 7 Incline was operating on 1993-94 base level production. Similarly, M/s SCCL originally obtained EC for Goutham Khani OC Mine vide letter no. F.No.J-11015/46/89-JA-11(M), dated 13.01.1993 for the production capacity of 2 MTPA in the ML area of 1113 ha and later obtained another EC for the same with some additional environmental conditions vide EC dated 09.05.2001. Later, another EC was accorded by the Ministry for the same mine vide letter no. F.No.23-254/2018-IA.III(V), dated 20.05.2021, under violation category as per S.O. 804(E) with increase in production capacity of 4 MTPA and reduced ML area of 902 ha.

For Padmavathi Khani No.5 Incline, M/s SCCL accorded original EC vide letter F.No.J-11015/27/88-IA-II(M), dated 23.10.1992 for the production capacity of 1.20 MTPA in the ML area of 916.48 ha and later accorded revalidation of EC vide letter dated 09.06.2021 for decrease in production capacity of 0.825 MTPA in the same ML area.

3. Committee observed that the PP implemented the Remediation Plan and Natural & Community Resource Augmentation Plan for VK Khani No. 7 and GK OCM as stipulated by the Ministry in the EC issued under Violation category, got the same certified from the concerned RO and got the bank guarantee released for the same after obtaining amendment in the ECs of VK Khani No. 7 Incline and GK OCM from MoEF&CC.

4. As per the instant proposal submitted by the PP, after amalgamation, VK No. 7 will be converted into opencast mine from underground mine and the balance coal reserves of 90 MT of the VK No. 7 Incline (which are blocked in standing pillars up to 300 m depth) will be extracted by the opencast method of mining and the OB from VK No. 7 will be dumped in the voids of GK OC. Further, the PP will continue the underground mining operations in PVK No.5 Incline beyond 300 m depth with continuous miner technology and LHDs for 9 years (8.3 MT) and subsequently converting into opencast mine to extract the balance coal reserves (79.50 MT standing on pillars up to 300 m depth).

5. Committee observed that, the proposed VK Coal Mine will continue as OC cum UG mine up to first 9 years, later on only OC operations will be continued. Thus, opencast mine will operate for 37 years with 5.30 MTPA capacity. Underground mine (PVK No.5 Incline) will operate at 1.0 MTPA up to 9 years.

6. Committee also observed that the instant project is for increase in lease area from 2291.06 ha to 2403.17 ha, in which 799.44 ha (346.87 ha of non-forestland and 452.57 ha of forestland) will be taken from GK OC, 575.14 ha (228.48 ha of non-forestland and 346.66 ha of forestland) will be taken from VK-7 and 916.48 ha (147.49 ha of non-forestland and 768.99 ha of forestland) will be taken from PVK-5. Apart from this, the additional land is 112.11 ha (non-forestland).

7. The project involves total 1568.22 ha of forestland. Out of 1568.22 Ha of forest land, Stage II FC and Stage I FC is available for 639.959 Ha and 928.261 respectively. Total broken forest in the existing ML area is 449.22 ha and there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

8. The proponent accorded ToR for the said project vide F.No. IA 23-78/2018-IA(III), dated 27.10.2021 and the same is valid till 26.10.2025.

9. 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.

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

11. The project is not located within 10 KM of any ESA/ National Park/ Wildlife Sanctuary/ Biosphere Reserve/ Tiger Reserve/ Elephant Reserve/ Tiger Corridor/ Elephant Corridor etc. The project lies at a distance of 6.33 km away from the Eco- Sensitive Zone boundary of Kinnerasani Wildlife Sanctuary (ESZ notified by MoEF&CC vide S.O.2859(E) date 30.08.2017). Permission from SCNBWL is not applicable as the ML area is 6.33 km away from ESZ boundary.

12. The Wild life conservation plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden recommended for providing a sum of Rs.731.60 Lakhs for taking up wildlife mitigation measures, vide Rc. No. 5694/20221/WL-1, dated 14.02.2024 and the amount was deposited for implementation of the WLCP.

13. The Mining Plan including Mine Closure Plan was approved by MoC vide Lr. No.38011/12/2017-PCA, dated 27.01.2020 for the ML area of 2403.17 Ha with production capacity of 6.30 MTPA (OC: 5.3 + UG: 1).

14. Method of mining proposed is Opencast cum underground mining using shovel dumper combination for opencast and continuous miner & LHDs for underground.

15. Total geological reserve reported in the mine lease area is 447.99 MT with 338.28 MT mineable reserves. Out of total mineable reserves of 338.28 MT, 317.16 MT are extractable reserves. Percent of extraction is 93.7 %. Till 31.03.2024 about 139.31 MT of coal reserves were already extracted and the balance reserves available for extraction area 177.85 MT(OC: 169.56,MT, UG: 8.29 MT).

16. Committee deliberated on the pre-mining and post-mining land use submitted by the PP and observed that, a void of 386.334 ha with the depth of 300 m is proposed to be converted into water body. At the same time, Committee also observed that the height on internal dump is proposed to be 120 m.

Committee opined that the depth of void is too deep and same shall be re worked. The depth shall be reduced and simultaneously the height of internal OB dump (and if required, of external OB dump as well) can be reduced and that OB can be used to fill the void and reduce the depth. Accordingly, the Mine plan and Mine Closure Plan shall be revised.

17. Committee opined that the underground mining will be done right next to the void being converted into water body. Committee opined that there is a risk of water rush into the closed UG mines and suggested that a risk analysis study for the same must be done for the worst case scenario and the recommendations of the same shall be complied with.

18. Committee deliberated on the transportation of coal and observed that, the coal will be transported from pit to surface, through series of conveyor belt and from pit to pit head through combination of dumpers and conveyor belt. Further, it will be transported to CHP with belt conveyor where GL bunkers near the railway siding are located. From GL bunkers the coal is transported to RLS for loading into railway wagons and the entire coal is transported by railway to the final consumers.

19. Committee deliberated on the baseline data submitted by the PP and observed that, the environmental parameters are within limits. The Committee suggested to continue with the mitigation measures being taken and strengthen the plantation in order to mitigate the pollution.

20. Committee deliberated on the water requirement for the said project and observed that the water requirement will be entirely fulfilled from the mine seepage water. The the estimated water to be pumped out of Seepage water from the proposed project is about 8660 KLD. The water requirement for this project is 3750 KLD (100 KLD for domestic purpose, 3100 KLD for dust suppression, 350 KLD for plantation and balance 200 KLD for washing) and the water requirement for the colony is 2000 KLD. The balance 2910 KLD will be released into nearby streams/ tanks after treatment. The required statutory clearance has been accorded for the same. Committee also observed that a nallah has been diverted in the past and no diversion of any water body is proposed for the instant proposal.

21. Committee deliberated on the Public Hearing that took place on 19.04.2022 for the said project and observed that the major issues raised during the PH were related to Employment, Education and Training, Infrastructure Development, Water supply- Irrigation & Drinking, Health & Medical, Environmental measures, CSR and DMFT funds and Rehabilitation & Re-settlement (R&R).

Committee further deliberated on the PH action plan submitted by the PP and opined that PP shall also introduce measures to strengthen the Public Health Centers and Community Health Centers in the study area. The budget for PH submitted by the PP is Rs. 910 Lakhs and the same shall be utilized in a time-bound manner.

22. The project cost for the proposed project submitted by the PP is Rs.48451 Lakhs. The capital cost and recurring cost submitted by the PP for the environmental protection measures is Rs.2742 Lakhs and Rs. 894 Lakhs respectively. 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 working condition and regular maintenance for the same shall be carried out.

23. The power requirement for the project is approximately 10 MVaH and the same will be sourced from 132 kV sub-station located at Kothagudem, from there 33kV line is extended up to Anand Khani substation near Gautam Khani OC Mine, Kothagudem Area. Committee observed that during the initial years the power supply for the project will be taken from the existing substation at VK. No.7 Incline Mine. Subsequently the existing sub stations will be shifted near the pit head of the proposed VK Coal Mine by diverting the existing line from 132 KV sub-station at Kothagudem. The necessary permissions shall be sought from the required department. Committee also observed that a national highway.

24. Committee deliberated on the plantation developed by the PP and observed that 1521.377 ha which is about 63.3 % of the total ML area has been developed with plantation. Further, PP proposed that a 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt (152.74 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 no. of

3803425 saplings will be planted and nurtured in 1521.377 hectares in 40 years the life of the project. PP also submitted a year-wise plantation plan for the same. Committee opined that the dense plantation shall also be developed on both the sides of conveyor route and various schools in the vicinity of the ML area. Also, fruit bearing trees shall be planted in the nearby villages and colony and its survival shall be maintained.

25. Committee deliberated on the R&R issues of the project and observed that the project involves 286 project displaced families and R&R for the same will be provided as per the provisions of the RFCTLARR Act, 2013 and accordingly Government of Telangana issued G.O.Ms.No.44 Dated: 03.05.2023. Committee opined that the same shall be completed in a time bound manner.

26. Committee also deliberated on the Certified Compliance Report of the concerned 3 mines and observed that ground work implementation status of wildlife management plan is yet to completely implement by the State Forest Department and plan for the same is provided by the DFO for all the three mines. Apart from this, mine void of GK OCP is yet to be filled, which is proposed to be filled by the OB of VK incline and PVK incline.

27. Committee opined that the PP shall introduce carbon neutrality projects in the ML area such as direct carbon capture, using advanced technologies, renewable energy development, dense afforestation, etc. Along with that, PP shall introduce sustainable development measures in support of Sustainable Development Goals.

28. There are no legal issues/ violation related to environment pending on the project.

29. Project proponent shall obtain permission from the State Forest department prior to felling of 4,00,000 nos. of trees as well as translocation of 1000 number of trees.

30. 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.

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

32. 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.

33. The committee is also of the view that a sub-committee of EAC shall visit the site after grant of EC (preferably after 6 months) for a review.

Recommendations of the Committee:

26. 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 Venkatesh Khani No.7 Incline, Padmavathi Khani No.5 Incline and Goutham Khani OC Mine of M/s Singareni Collieries Company Limited subject to the stipulation of specific conditions in addition to the general/Standard EC conditions (**Annexure-I**).

27. 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 “*Venkatesh Khani OC cum UG Coal Mine (VK Coal mine) [Increase in ML area from 2291.06 ha to 2403.17 ha, with total production capacity 6.30 MTPA (OC- 5.30 MTPA; UG - 1 MTPA)], located at Villages Rudrampur; District: Bhadrachalam; State: Telangana*” subject to compliance of the Specific Environmental safeguard Conditions in addition to the standard EC conditions (**Annexure-I**).

28. 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.

29. 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.

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

31. 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.

32. 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.

33. 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, Bhadradi Kothagudem, 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 928.261 Ha forest land is obtained under the provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, Act 1980.
1.2	Project proponent shall carry out opencast mining of 5.30 MTPA production capacity for a period of 37 years and one underground mine (PVK No.5 Incline) with 1.0 MTPA capacity shall be in operation for first 9 years as committed.
1.3	Project proponent shall carry out risk analysis study for the worst case scenario through reputed institute as the underground mining will be done right next to the void being converted into water body. The recommendations of the study report shall be complied with and the compliance status in this regard shall be submitted along with the six monthly compliance report.
1.4	Project proponent shall take all necessary action to fill the final void with overburden thereby reducing the final depth to 200 m in place of 300 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 31.02.2025. And the same shall be approved by the board of M/s SCCL by 30.06.2025. Compliance of the same shall be submitted in the six-monthly compliance report.
1.5	Project proponent shall comply the environmental safeguards stated in the EIA/EMP report for the diversion of 2 km length of National Highway (NH-30) (from Kothagudem towards Vijayawada) passing over the ML area. Further, as committed, the diverted NH shall be re-stored to its original position after 15 years from the date of commencement of mining operations.
1.6	Project proponent shall not divert water body/ transmission lines within the lease area of 2403.17 Ha ML area as committed.
1.7	The Seepage water to be pumped out from the proposed project is about 8660 KLD. After meeting the mine requirement of 3750 KLD and colony requirement of 2000 KLD the balance 2910 KLD shall be treated in conformity to the prescribed norms and released with prior approval from TSPCB.

S. No	EC Conditions
1.8	286 Project Displaced Families (PDF) will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan to be approved by the State Government. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report.
1.9	Rapid Loading System with Silo arrangement (RLS) within the lease area shall become operational prior to the mining of 6.30 MTPA. Road transportation of coal outside the lease area is not permitted as committed.
1.10	In addition to the existing 3 CAAQMS, three numbers of additional 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 in consultation with concerned SPCB within one year from the date of issue of EC. 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.
1.11	The budget proposed to address the issues raised during Public hearing is Rs. 9.10 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.
1.12	PP shall implement the protective measures proposed in EMP in a time-bound manner. The budget earmarked is Rs 2742 lakhs (Capital) and Rs 894 lakhs (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.
1.13	PP shall ensure that no OB dumping is done outside the mine lease area.
1.14	PP shall emphasize 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 solar power generation units. 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.
1.15	PP shall minimize mine voids in the post mining phase so that maximum area post mining is under green belt or agriculture/ grazing land.
1.16	Plantation shall be developed in 1521.377 ha which is about 63.3 % of the total ML area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt (152.74 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 no. of 3803425 saplings will be planted and nurtured in 1521.377 hectares in 40 years the life of the project. 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.

S. No	EC Conditions
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. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in government account.
1.18	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.
1.19	Project proponent shall obtain permission from the State Forest department prior to felling of 4,00,000 nos. of trees as well as translocation of 1000 number of trees. As committed, 1000 numbers of trees shall be translocated, within the premises, peripherally without disturbing other Trees. All such 1000 numbers of trees shall be numbered with prominent number creating a unique identity for each tree and shall be geo-tagged before and after translocation with proper image consisting of exact location with latitude, longitude and also altitude bearing distance, accuracy data, places and even a time stamp. All translocated trees shall be monitored regularly by the proponent and compliance status shall be submitted along with the six monthly compliance report.
1.20	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.
1.21	To control the production of dust at the source, the crusher shall be equipped with mist-type sprinklers. PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/ CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons with 40 mts jet length shall be installed within 6 months from the date of grant of EC amendment. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles.
1.22	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.
1.23	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.
1.24	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.

S. No	EC Conditions
1.25	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.
1.26	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.
1.27	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.
1.28	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.
1.29	Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign 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.
1.30	A sub Committee of the EAC shall visit the site post EC to recommend any further mitigation measures.

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.
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.

S. No	EC Conditions
1.4	The maximum production at any given time shall not exceed the limit as prescribed in the EC.
1.5	Validity of EC would be governed by the existing EC dated 06/12/2013.

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 6.30 MTPA [(OC- 5.30 MTPA; UG- 1 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.
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 three additional CAAQMS shall be installed in which all the parameters like PM ₁₀ , PM _{2.5} , SO ₂ , NO _x 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-20012/1/2006-1A.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.
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 Forest (Conservation) 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 Recalculation

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(MOEFCC) 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.

S. No	EC Conditions
6.3	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
6.4	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
6.5	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
6.6	Quick action/mitigation plan shall be established and implemented in the area affected by subsidence caused due to mining activity.
6.7	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 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.Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

S. No	EC Conditions
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 approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
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 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.
8.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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 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.

S. No	EC Conditions
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 (MoEF&CC).
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 Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.