



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director (Planning & Projects)
THE SINGARENI COLLIERIES CO LTD

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/TG/CMIN/212245/2018 dated 23 Jul 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---------------------------------|
| 1. EC Identification No. | EC22A042TG126745 |
| 2. File No. | 23-257/2018-IA(III) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | JAWAHAR KHANI-5 OC PROJECT |
| 7. Name of Company/Organization | THE SINGARENI COLLIERIES CO LTD |
| 8. Location of Project | Telangana |
| 9. TOR Date | 27 Sep 2019 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 10/06/2022

(e-signed)
Lalit Bokolia
Scientist F
IA - (Coal Mining sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. 23-257/2018- IA(III)]
Government of India
Ministry of Environment, Forest & Climate Change
(Impact Assessment Division)

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Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi - 3
Email: lk.bokolia@nic.in Tel: 011-20819417

Dated: 9th June , 2022

To,

The Director (Planning & Projects)
M/s The Singareni Collieries Company Ltd (SCCL),
Kothagudem Collieries (PO)
Bhadradri- 507101 (Telangana)
Email: gm_env@scclmines.com env_crp@scclmines.com

Sub: Expansion of Jawahar Khani- 5 Opencast coal mine project from production capacity of 2.50 MTPA to 3.50 MTPA in existing project area of 490.14 ha of M/s The Singareni Collieries Company Limited (SCCL) located at village Sudimalla & Usirikayapalli, Mandal Yellandu, District Bhadradri Kothagudem (Telangana) - For Environment Clearance - reg.

Sir,

This has reference to your online proposal No. IA/TG/CMIN/212245/2018 dated 23rd July, 2021 for grant Environment Clearance in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 for Expansion of Jawahar Khani- 5 Opencast coal mine project from production capacity of 2.50 MTPA to 3.50 MTPA in existing project area of 490.14 ha of M/s The Singareni Collieries Company Limited (SCCL) located at village Sudimalla & Usirikayapalli, Mandal Yellandu, District Bhadradri Kothagudem (Telangana).

The project/activity is covered under category 'A' of item 1 (a) 'Mining of Minerals' the Schedule to the EIA Notification, 2006

2. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 17th meeting held during 9-10 August, 2021 and 26th EAC meeting on 4th February, 2022, through Video Conferencing. The details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meetings, are given as under:-



- i. The project area is covered under Survey of India Topo Sheet No 65C/6 and is bounded by the geographical coordinates ranging from latitude 17033'59" to 17035'25" N and longitudes 80018'51" to 80019'51" E.
- ii. Coal linkage of the project is proposed as per the Fuel Supply Agreement (FSA).
- iii. No Joint venture cartel has been formed.
- iv. Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January, 2010 has imposed moratorium on grant of Environment clearance.
- v. Employment generation, Total employment was 333 persons will be provided from the project.
- vi. The project is reported to be beneficial in terms of socio-economics and improving living standards.
- vii. Earlier, the environment clearance to the project was obtained under EIA Notification 2006 vide Ministry's letter No J-11015/31/2013-IA-II (M) dated 3rd March, 2016 for 2.50 MTPA in mine lease area of 514.95 ha.
- viii. Terms of Reference granted vide Ministry's letter No.23-257/ 2018-A-(III) dated 27th September, 2019 based on Ministry's notification dated 14th March, 2017.
- ix. Total mining lease area as per block allotment is 490.14 ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the 38011/12/2017-PCA, Approved on 12.09.2019 by MoC.
- x. The land usage pattern of the project is as follows: Pre-mining land use details (Area in Ha)

S. No	Land Use	With ML Area (Hectare)	Outside ML Area (Hectare)	Total
1	Water Bodies	3.42	NIL	3.42
2	Agriculture Land	18.23		18.23
3	Barren	208.62		208.62
4	Forest Land	--		--
5	Road	7.57		7.57
6	Grazing Land	225.75		225.75
7	Others (Township)	26.55		26.55
	Total	490.14		490.14

Post-mining land use details (Area in Ha):

S. No.	Land Use	Total area	Plantation	Water Body	Public Use
1	External OB dumps	195.56	174.59	20.97	
2	Top Soil Storage	17.32	17.32		
3	Internal OB dumps	42.27	42.27		
4	Excavation / quarry	107.68	--	107.68	
5	Road Diversion	7.41			7.41

6	Safe barrier, roads, drainage around quarry and external dump yard.	101.72	74.94	8.82	17.96
7	Road & Infrastructure area	18.18	18.18		
	Total	490.14	327.30	137.47	25.37

- xi. Total geological reserve reported in the mine lease area is 26.30 MT with 23.67 MT, mineable reserves, 22.49 MT are available for extraction. Percent of extraction is 85.5%.
- xii. One seam (Queen Seam) with thickness ranging from 5.79 to 20.23m is workable. Grade of coal is G-15, stripping ratio 3.98, average gradient is 1 in 7.
- xiii. Method of mining operations envisages by Shovel dumper combination method
- xiv. Life of mine is 1 year (2021-22).
- xv. The project has 1 external OB dumps in an area of 195.56 ha with 60 m height and 72.0 Mm3 of OB, 1 internal OB in an area of 42.27 ha with 37.25 Mm3 of OB is envisaged in the project.
- xvi. Total quarry area is 490.14 ha out of which backfilling will be done in 251.49 ha while final mine void will be created in an area of 107.68 ha with a depth of 120 m.
- xvii. Transportation of coal has been proposed as from quarry to pit head by Trucks/Dumpers, from surface to siding (pit head CHP to wharf loading, YCHP) by Road and from siding (YCHP) to customers by rail.
- xviii. Reclamation Plan in an area of 327.30 ha, comprising of 174.59 ha of external dump, 42.27 ha of internal dump and 92.26 ha of green belt. In addition to this, an area of 18.18 ha, included in the safety zone/rationalization area, has also been proposed for green belt development.
- xix. No forest land has been reported to be involved in the project.
- xx. No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones fall within 10 km boundary of the project.
- xxi. The ground water level has been reported to be varying between 3.30 m to 9.89m during pre-monsoon and between 1.55 m to 7.95 m during post-monsoon. Total water requirement for the project is 2350 KLD.
- xxii. Ground Water clearance was obtaining vide Lr.No.12674/Hg.II(1)/06, dt:10.04.07.
- xxiii. Public hearing for the project of 3.50 MTPA capacity in an area of 490.14 ha wasConducted on 03.03.2021 at the premises of Telangana Tribal Welfare Residential School (Girls) under the Chairmanship of the Additional collector in Bhardradri Kothagudem district and 19.03.2021 at Telangana Tribal Welfare Residential School (Boys) under the Chairmanship of the District Revenue Officer & Additional District Maqistrate, Khammam District, Major issues raised in the public hearing and appropriate action to address the issues raised in the Public Hearing have already been taken / proposed to be taken.
- xxiv. Consent to Operate for the existing capacity was obtained from the State PCB No.17072998391, date: 03.01.2018 and is valid till 37.12.2022. No River/nalla is flowing in boundary of lease.
- xxv. Regular monitoring of ambient air quality is being carried out on fortnightly basis. The documented report is submitted to TSPCB and also to MoEF&CC along with half yearly EC compliance report. In general, the results of ambient air quality monitoring data were found within prescribed limits.
- xxvi. No court cases are pending. Violation cases are pending against the project of the PP.

- xxvii. The project was involved violation of the EIA Notification, 2006 and Amendment issued there under. The coal production from the mine was started in the year 2012-13. Excess production of coal from the sanctioned capacity has been realized since 2015-16.
- xxviii. R&R, not applicable, since this project is an operating project no new land is required. Hence the project does not involve project affected families.
- xxix. Total cost of the project is Rs. 131.20 crores. Cost of production is Rs. 1063 /- per tonne. CSR cost is spending 2% of its average annual net profit, R&R cost is Rs 65.38 crores (completed). Environment Management Cost is Rs.70.85 crores.

4. The Expert Appraisal Committee in its 26th EAC meeting on 4th February, 2022 has recommended the proposal for grant of Environment Clearance. Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environment Clearance to the proposal, based on submission of Bank Guarantee under violation category for **Expansion of Jawahar Khani- 5 Opencast coal mine project from production capacity of 2.50 MTPA to 3.50 MTPA in existing project area of 490.14 ha of M/s The Singareni Collieries Company Limited (SCCL) located at village Sudimalla & Usirikayapalli, Mandal Yellandu, District Bhadrachalam, District Bhadrachalam (Telangana), under EIA Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions for environmental safeguards:**

- (i) EAC recommended for an amount of Rs 464.5 lakhs towards Remediation plan and Natural and Community Resource Augmentation plan to be spent within a span of three years. The details of Remediation plan, Natural resource Augmentation plan and Community Resource Augmentation plan with budgetary provision are mention below

Sl. No	Component Remediation	Remediation Proposed	Description	Unit Rate Rs Lakhs	Locations	Total Cost	Year - I	Year- II
						Rs. in Lakhs		
1a	Air & Noise Environment	Dust suppression	Construction of the CC Roads for a length of 1 km.	Rs.12.5 lakhs per 0.25 km.	1.Vijayalaxmi Nagar 2.Subash Nagar 3.Strut Pit Basthi 4.Bhagyanagar thanda.	50.0	50.0	~
1b	Noise Environment and Ecology	Avenue Plantation	Plantation of total 128 Nos. of native plants at Rs.1000 per	Rs. 1,000 One plant	JK colony	12.8	7.8	5.0

			sapling, including maintenance for 3 years in nearby village and periphery of the project.						
1c	Water Environment	Rain water harvesting structure	Construction of FRWH (including raw material, labour, construction and maintenance for one year)	Rs.2.5 lakhs per one unit— Total 4 units	1.Rompedu 2.Bojjaigudem 3.Motlagudem 4.Karepalli	10.0	5.0	5.0	
		Supply of potable water in surrounding villages.	RO plants of in nearby villages. 250lit/hour capacity with installation and 10 years maintenance & shed.	Rs.7.5 lakhs per one unit— Total 5 units	1.Rompedu 2.JK R&R Colony 3.Usirikayapalli 4.Bhagyanagerrthanda 5.Rajanagar	37.5	22.5	15.0	
Sub-Total – A (1a+1b+1c)						Rs.	110.3	85.3	25.0

Natural Resource Augmentation Plan

Sl. No.	Component Remediation	Description	Unit Rate Rs. Lakhs	Locations	Total Cost	Year-I	Year-II
					Rs . Lakhs		
2a	Natural Resource Augmentation Plan	30W pole mounted solar LED lights (complete set) in nearby villages @Rs.28000 per unit with 3 years maintenance.	Rs.0.28 lakhs per unit – Total 196 units.	1. Usirikayapalli 2. Bhagyanagerthanda 3. Sitarampur 4. Tekulagudem 5. Rompedu 6. Nizampet 7. Vijayalaxmi Nagar 8. 21 Pit Area 9. 23 rd Ward	55.0	28.0	27.0

				10.Strut pit Basthi			
2b		Construction of check dams (Materials, manpower, construction).	Rs. 5.00 lakhs per unit — Total 9 units.	1. Usirikayapalli-2 2. Sitarampur-2 3. Karepalli-2 4. Tekulagudem-3	45.0	25.0	20.0
Sub-Total-B					100.0	53.0	47.0
(2a+2b)		Rs.					

Community Resource Augmentation Plan

Sl. No.	Proposed Activity	Description	Unit Rate Rs. Lakhs	Locations	Total Cost	Year - I	Year - II
					Rs. In Lakhs		
3a	Development of Infrastructure	Construction of Community halls.	Rs. 24.00 lakhs per unit — Total 2 units.	1.Rompedu 2.Karepalli	48.0	24.0	24.0
3b		Godown for storage of the agriculture products in the nearby villages	Rs. 15.00 lakhs per unit — Total 3 units.	1.Usirikayapalli 2.Sitarampur 3.Rompedu	45.0	30.0	15.0
3c		Development of Parks	Rs. 10.00 lakhs per unit — Total 3 units.	1.JK colony 2. JK5 OC R&R colony vacated area. (16 th Ward) 3.Strut Pit Basthi	30.0	15.0	15.0

(3a+3b+3c)	Rs.	Sub-Total	-	C	123.0	69.0	54.0
+C)	(107.8+100+123)	Grand Total	(A	+B	333.3	207.3	126.0

1% contribution from capital cost against community welfare activities

Sl.No	Description of Activity	Location	Rate (Rs.in Lakhs)	Total Cost	Year -I	Year-II
				Rs. in Lakhs		
1	Laying of CC Roads	1.Usirikayalapally 2.Polampally 3.20th Ward of YLD 4.CSP Basthi 5.16th Ward of YLD	50 lakhs per 1 km	50.0	30.0	20.0
2	School Building & Community hall	1.Tilak Nagar 2.CSP Basthi	25 lakhs per unit	50.0	25.0	25.0
3	Park & Open Gym	16 th Ward of YLD	Rs15.6 lakhs per each unit	31.2	15.6	15.6
TOTAL				131.2	70.6	60.6

Summary

Sl. No.	Description	Revised Estimated cost (Rs. in Lakhs)
1	Remediation Plan	110.3
2	Natural Resources Augmentation Plan	100.0
3	Community Resources Augmentation Plan	123.0
4.	1% contribution on PH	131.2
Total		464.5 Lakhs

- (ii) PP to implement the works under aforesaid total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan for an amount of Rs. 464.5 lakhs for which bank guarantee has been submitted to SPCB.

- (iii) Remediation plan shall be completed within one year from date of issue of EC only. The bank guarantee will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by regional office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.
- (iv) Further proposal of expansion/amalgamation of mine shall only be considered only when full compliance of this EC conditions alongwith compliance of Remediation plan and Natural & Community Resource Augmentation plan for amount Rs 464.5 lakhs is accomplished.
- (v) Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable, State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- (vi) PP shall submit the amount allocated for Wildlife Conservation plan as approved by the Competent Authority within six months of issue of this letter and shall be implemented with consent to the respective Forest division and intimation to PCCF regarding the activities to be carried should be also be sent
- (vii) The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (viii) State Government concerned shall ensure that mining operation shall not commence till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
- (ix) Effective dust suppression system shall be adopted at the transportation site and in the other parts of the mining lease to arrest the fugitive dust emission
- (x) Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- (xi) The mining lease holder shall, after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to condition which is fit for growth of fodder, flora and fauna etc.
- (xii) State Government/SPCB to take action against the Project Proponent under the provision of Section 19 of the E(P) Act.
- (xiii) In pursuance to the Ministry's OM dated 30.09.2020, Project Proponent shall take up the following activities for community development under EMP

- (xiv) The PP must adhere to the commitment in time bound manner to address the public hearing issues like construction of check dams in Usirikayalapally (3nos), Sitarampur (2 nos), Kerapalli (2 nos) & tekulagudam (03 nos), providing street solar lights to 10 surrounding villages and construction of CC roads in Vijay laxmi nagar, Subhash nagar, Strut Pit basti, Bhagyanagar thanda, Usirikayalapally, Polampally, 20th ward of YLD, CSP Basti, 16th ward of YLD etc.
- (xv) PP must also install solar lights along the roads too which are to be constructed by PP as mentioned above conditions in all the villages
- xvi. PP shall update mine closure activity already conducted and to be pursued for final mine closure and furnish the detail to the respective IRO in December,2022
- xvii. PP shall backfill fill the entire final void up to a depth of 20 m from surface to form a water lagoon after cessation of mining activities

Periodical health check-up shall be conducted to monitor the impact of heavy metals present in core zone & buffer zone air quality and also to prepare an action plan to reduce heavy metals concentration and also report to be submitted to concerned regional office of MoEF&CC

4.1 The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:

a. Statutory compliance:

- i. 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
- ii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iv. The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- vii. Solid waste/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016

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b. Air quality monitoring and preservation

- i. 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, SO₂ 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
- ii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 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.
- iii. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ 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.
- iv. Major approach roads shall be black topped and properly maintained.
- v. The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
- vi. 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.
- vii. Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
- viii. Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.

c. Water quality monitoring and preservation

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

- iii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
- iv. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
- v. Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
- vi. 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.
- vii. 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
- viii. 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.
- ix. Industrial waste water 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 of adequate capacity shall be installed for treatment of domestic waste water.
- x. Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- xi. The 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/Gol 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.
- xii. 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 reverian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

d. Noise and Vibration monitoring and prevention



- i. Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in underground mining operations, operation of HEMM, etc., shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms/guidelines in this regard. Progress in usage of such accessories to be monitored. Adequate awareness programme for users to be conducted.
- ii. 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.

e. Mining Plan

- i. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- ii. No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iii. 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).
- iv. Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- v. No mining activity 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.
- vi. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

f. Land reclamation

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. 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.
- iii. 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.
- iv. Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time

to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, alongwith fly ash for external dump of overburden, backfilling or stowing of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.

- v. A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
- vi. 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.
- vii. Native tree species shall be selected and planted over areas affected by subsidence.
- viii. 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.

g. Green Belt

- i. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
- ii. Greenbelt, consisting of three-tier plantation, of width not less than 7.5 m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach roads/ coal transportation roads.

h. Public hearing and Human health issues

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- ii. The Project Proponent shall undertake Occupational Health survey for initial and Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.
- iii. Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iv. 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.
- v. 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.
- vi. Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/ R&R Policy of the State Government, as applicable

- vii. 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'.
- viii. **Corporate Environment Responsibility**
- ix. 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. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- x. 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.
- xi. 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.
- xii. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

j. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. 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.
- v. 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.
- vi. The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.

- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. 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.
- ix. 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).
- x. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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.
- xiv. 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.
- xv. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.

6. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

7. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

8. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.

9. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.

10. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.

11. All the conditions mentioned in Environment Clearance vide Ministry's letter No. J-11015/31/2013-IA-II (M) dated 3rd March, 2016 for 2.50 MTPA shall also be complied.

This issues with the approval of the competent Authority


(Lalit Bokolia)
Director

Copy to: -

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The APPCF, Regional office (EZ), Ministry of Environment, Forest and Climate Change, 1st&2nd Floor, Handloom Export Promotion Council, Cathedral Garden Road, Nungambakkam, Chennai - 34 (Tamil Nadu)
3. The Secretary, Department of Environment & Forests, Government of Telangana
4. Chairman, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
5. The Member Secretary Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Chairman, Telangana State Pollution Control Board, Paryavaran Bhawan, A-3 Industrial Estate, Sanatnagar, Hyderabad - 38
7. The District Collector, Bhadradi Kothagudem, Government of Telangana
8. Monitoring File/Guard File/Record File 9. PARIVESH Portal


(Lalit Bokolia)
Director