



File No.: AP/CU/MIN/O1/2024/EC/35
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
ANDHRA PRADESH)



Dated 28/06/2024



To,

Venkata Ramana
VENKATA CHOWDAM
Sri.C.Venkata Ramana D.No.1/1456-1, Yerramukkapalli, Kadapa-516004 Andhrapradesh ,
YERRAMUKKAPALLI, Y.S.R., ANDHRA PRADESH, , 516004
venkatc2245@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/AP/MIN/459204/2024 dated 19/01/2024 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24B0108AP5964750N
(ii) File No.	AP/CU/MIN/O1/2024/EC/35
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	C venkata Ramana Baryte Mine-6.070 Ha
(ix) Location of Project (District, State)	Y.S.R., ANDHRA PRADESH
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	No

N/A

	State Level Environment Impact Assessment Authority (SEIAA)
	Andhra Pradesh
	Ministry of Environment, Forests & Climate Change
	Government of India
	Dr.YSR Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Auto Nagar, Vijayawada-520007.

REGD.POST WITH ACK.DUE

Order No. SEIAA/AP/CU/MIN/01/2024/EC/35/240.32&240.25

Sub : SEIAA, A.P – 6.070 Ha, Barytes Mine of Sri. C Venkata Ramana at Sy. No. 506/2 (old Sy.No.288/31) of V.Kothapalli Village, Vemula Mandal, Y.S.R Kadapa District, Andhra Pradesh - Environmental Clearance – Issued - Reg.

- i. This has reference to your application submitted through online on 19.01.2024 (SIA/AP/MIN/459204/2024), seeking Environmental Clearance for the proposed mine 6.070 Ha Barytes Mine at Sy.No. 506/2 (old Sy No. 288/31) of V.Kothapalli Village, Vemula Mandal, Y.S.R Kadapa District, Andhra Pradesh in favor of Sri. C Venkata Ramana. It was reported that the nearest human habitation viz., V Kothapalli (V) exists at a distance of about 1.7 Kms from the mine lease area. It was noted that the capital investment of the project is Rs.60.0 Lakhs and capacity of the project is as follows:

Mining of Barites – 4,076 TPA in 6.070 Ha

- ii. As seen from the Mining plan approved by the competent Government Authority the following two aspects are noted.
- i. The location of the mine is as follows:

Point	Latitude	Longitude
1.	14°20'58.69248"N	78°21'41.78738"E
2.	14°21'01.75709"N	78°21'49.43601"E
3.	14°20'56.99651"N	78°21'52.99727"E
4.	14°20'54.28388"N	78°21'53.42538"E
5.	14°20'53.26168"N	78°21'45.10849"E
6.	14°20'54.04039"N	78°21'43.56665"E

- ii. It is an Underground mining method. The total mine lease area is 6.070 Ha.

This proposal has been referred to SEAC, A.P along with all the documents submitted by the proponent for their appraisal and for their specific recommendations on EC aspect. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meeting held on **14.02.2024**.

Minutes of SEAC meeting:-

Category: B2 (Minor mineral)

The proposed project is for mining of Barites in an area of 6.070 Ha. with a proposed production quantity of Barites – 4,076 TPA with a condition that the total production during a scheme should be limited to the approved quantity as per Mining scheme/ plan.

The proposed project falls under Item No. 1(a) of the schedule of the EIA Notification 2006 and its amendments thereof - (i). Mining of minerals (≤ 250 ha of mining lease area in respect of non-coal mine lease).

The representative of the project and their consultant M/s Ecomen Laboratories Pvt Ltd, have attended the meeting and presented their proposal. The SEAC Committee noted that:

- a. The Department of Mines and Geology submitted DSR of Kadapa. The same is reviewed in the SEAC meeting and observed that the mineral content is available in the cluster mine mentioned at Page No.142 of DSR Report.
- b. The Department of Mines and Geology vide order dt. 25.08.2023 issued LoI extension to the subject mine for a period of 20 years subject to submission of Approved Mining Plan, EC and CFE and same is valid for a period upto 16.09.2024.
- c. As per the approved mining plan dt. 01.02.2022, the total provided mineral reserves are 1,46,548 T. The proponent proposed to excavate Barites – 4,076 TPA. The Life of the mine is 35.0 years.
- d. The project proponent has obtained standard TOR on 04.08.2022 and public hearing was held on 22.11.2023.
- e. Issues raised during the PH: development of green belt, employment opportunities, village development activity, ground water and compensations and other specific issues raised during the public hearing.
- f. Response of the Management during the PH: The representative of the project informed that they will implement the suggestions for protection of road as suggested by the Sarpanch. He stated that the mining unit will provide First Aid facilities in the mine. He informed the mining unit will provide life insurance policy to the workers duly renewing the policy annually for coverage by the insurance company as well as the management. He informed that he will operate the mine systematically as he has good experience as a consultant in mining units. He further expressed that the mining unit will not cause any inconvenience to the villagers and get the approach road repaired in case of any damages. He stated that he will stand in support with the villagers in all situations and maintain a good relation with them.
- g. The base line data was collected from October, 2022 to December, 2022 and the predominant wind direction is observed to be East to West. The maximum concentration of SPM (PM_{10}) is observed to be $56.7 \mu g/m^3$. The incremental concentration is $0.91 \mu g/m^3$ and GLC of SPM will falls within mine lease area.
- h. The committee noted that in the proposed subject mine is existing at slop of the

hill towards northern side, hence committee directed the project proponent to provide trench with rocky bund on northern side to prevent surface runoff entering into the agricultural land

- i. The project proponent informed that they have allocated Rs. 3.21 Lakhs as capital cost and Rs. 3.05 Lakhs as a recurring cost budget for the EMP. The proponent volunteered to provide Water treatment plant to V Kothapalli village as a part of Corporate Social Responsibility (CSR) activity and shall maintain till the life of the mine.

The Committee after examining the project proposals, presentations, mining plan, MoEF&CC Notifications & OMs EIA report, Public Hearing minutes and detailed deliberations, recommended **SEIAA for issue of** Environmental Clearance for mining of Barites – 4,076 TPA with following conditions:

1. The proponent shall comply with the proposals furnished in the Environmental management plan.
2. The project proponent shall develop greenbelt of 1km along approach roads & village Roadsides.
3. The project proponent shall provide trench with rocky bund on northern side to prevent surface runoff entering into the agricultural land
4. The project proponent shall maintain 7.5mt greenbelt in buffer zone and existing buffer zone plantation should not be disturbed.
5. The proponent shall take dust suppression measures to meet the CPCB stipulated ambient air quality standards at any point of time.
6. The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
7. The vehicles carrying the mines material shall be covered with tarpaulin during vehicular movement.
8. The project proponent shall not use village road/ canal bund roads for mineral transportation purpose.
9. The project proponent shall restrict vehicles movement during the peak hours to avoid accidents.
10. The project proponent shall not disturb surrounding agricultural lands.
11. The project proponent shall provide trench all around the mine lease area to prevent surface runoff.
12. The project proponent shall restrict the load of the transport vehicles not more than 21 tons to avoid road damages and dust nuisance to surroundings.
13. The project proponent shall comply with the conditions stipulated in DGMS rules and regulations.
14. The project proponent shall provide minimum 2 no of shafts for the underground mining and it should be interlock with each other.
15. The project proponent shall comply with the commitments / promises made during the public hearings.

The committee in the appraisal report clearly stated that they have examined the approved Mining Plan, Form-I/II, PFR/DPR and EMP for compliance by the proponent.

The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on **13.03.2024** examined the proposal and the recommendations of SEAC and decided to accept SEAC recommendations aforesaid for strict compliance by the proponent and to issue EC. The SEIAA, A.P **hereby accords Environmental Clearance to the project** as mentioned at Para No. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following cluster, specific and general conditions:

Part A. Special Conditions:

- i. The proposal shall not attract the following Acts & Rules:
 - a. Forest Conservation Act 1980,
 - b. Wild life (Protection) Act,1972;
 - c. CRZ Notification, 2011;
 - d. The eco sensitive areas as notified under Environment (Protection) Act,1986;
 - e. Critically polluted areas as notified by CPCB and also shall not harm live stocks and human beings and disturb their activities.
- ii. The total production during a scheme should be limited to the approved quantity as per Mining scheme/ plan.
- iii. The project proponent informed that they have allocated Rs. 3.21 Lakhs as capital cost and Rs. 3.05 Lakhs as a recurring cost budget for the EMP. The proponent volunteered to provide Water treatment plant to V Kothapalli village as a part of Corporate Social Responsibility (CSR) activity and shall maintain till the life of the mine.
- iv. The proponent shall comply with the proposals furnished in the Environmental management plan.
- v. The project proponent shall develop greenbelt of 1km along approach roads & village Roadsides.
- vi. The project proponent shall provide trench with rocky bund on northern side to prevent surface runoff entering into the agricultural land
- vii. The project proponent shall maintain 7.5mt greenbelt in buffer zone and existing buffer zone plantation should not be disturbed.
- viii. The proponent shall take dust suppression measures to meet the CPCB stipulated ambient air quality standards at any point of time.
- ix. The proponent shall carryout suppression of dust generated due to transport vehicles by continuous water spraying using tankers.
- x. The vehicles carrying the mines material shall be covered with tarpaulin during vehicular movement.
- xi. The project proponent shall not use village road/ canal bund roads for mineral transportation purpose.
- xii. The project proponent shall restrict vehicles movement during the peak hours to avoid accidents.
- xiii. The project proponent shall not disturb surrounding agricultural lands.
- xiv. The project proponent shall provide trench all around the mine lease area to prevent surface runoff.
- xv. The project proponent shall restrict the load of the transport vehicles not more than 21 tons to avoid road damages and dust nuisance to surroundings.

- xvi. The project proponent shall comply with the conditions stipulated in DGMS rules and regulations.
- xvii. The project proponent shall provide minimum 2 no of shafts for the underground mining and it should be interlock with each other.
- xviii. The project proponent shall comply with the commitments / promises made during the public hearings.
- xix. The project proponent shall follow the order of National Green Tribunal passed in O.A.No.304/2019.
- xx. The project proponent shall maintain the setback distance 7.5 meters buffer zone all around the mine lease area for greenbelt development and other conditions are to be fulfilled.
- xxi. The avenue plantation (tall plants), of at least 1.5m height, for 1 km length of the approach road on either side of the road is to be developed and maintained.
- xxii. The proponent is advised to ensure safety to animal and public life.
- xxiii. The proponent shall comply with the concerns raised/ commitments made in the public hearing.

Part B. Specific Conditions:

1) Air Pollution:-

- i.
 - a. Suitable drilling & cutting method shall be adopted to control dust emissions, as per approved mining plan.
 - b. The proponent shall comply with the mining methodology mentioned in approved mining plan and Form1.
- ii. Greenbelt shall be developed along the boundary of mining lease area and also in back filled and reclaimed areas with tall growing native species in consultation with the local DFO/Agriculture Department. The proponent of mine shall carry mining operations in such a manner so as to cause least damage as far as possible to the flora of the mining area and nearby areas. He shall take immediate measures for planting in the same area or any other area selected by authorities not less than twice the number of trees going to be felled by mining operations. He shall also take measures for restoration of other flora /fauna if damaged by mining operations. In case any felling or damage to fauna and flora is involved, prior permission shall be taken from the concerned regulatory authority, by the proponent, without which mining shall not be taken up.
- iii. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- iv. The proponent shall take appropriate measures to ensure that the Ground Level Concentration (GLC) shall comply with the revised NAAQ norms notified by MoE&F, GoI on 16.11.2009.
- v. The following measures are to be implemented to reduce air pollution during transportation of mineral:-

- Roads shall be graded to mitigate the dust emission.
 - Regulatory Authority prior concurrence shall be taken for this activity.
 - Water shall be sprinkled at regular interval on the main haul road and other service roads by water sprinklers to suppress dust.
- vi. The following measures are to be implemented to reduce Noise pollution:-
- Proper and regular maintenance of vehicles and other equipment.
 - The proponent shall ensure that there shall be no excessive noise, while taking up mining activity.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
 - Regulatory authority instructions be taken if there are any better alternatives
 - Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25kmph to prevent undue noise from empty trucks.
- vii. Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010; dt. 11.01.2010 issued by the MoE&F, GOI to control noise to the prescribed levels. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.
- viii. The proponent shall not take-up mining activity unless he obtains the safety clearance certificate from the competent Govt. authority.

2) Water Pollution:-

- i. As per records the source of water is bore well. Total water requirement is 10.0 KLD. Out of that, 4.0 KLD is used for dust suppression; 1.4 KLD is used for Wet drilling operation; 3.0 KLD is used for Greenbelt; 1.6 KLD is used for Domestic purpose.
- ii. Garland drain and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly delisted, particularly after monsoon, and maintained properly. Prior concurrence of Regulatory Authority concerned shall be taken for this activity before taking up mining.
- iii. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells by the project proponent in and around project area in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Data thus collected should be sent at regular interval to MoEF, CGWA and CGWB, Southern, Region, Hyderabad.
- iv. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting in consultation with concerned Regulatory Authority.

- v. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

3) Solid Waste :-

- i. Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.
- ii. The following measures are to be adopted to control erosion of dumps:-
 - Retention/toe walls shall be provided at the foot of the dumps.
 - Worked out slopes are to be stabilized by planting appropriate shrub/grass species on the slopes.
 - Regulatory Authority prior concurrence shall be taken for this activity.
- iii. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and trans boundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB. APPCB shall monitor this aspect at regular intervals to prevent any harm to life and the proponent on his part, shall ensure that this activity shall be taken up regularly under the guidance of Regulatory Authority, as decided by that Authority.
- iv. The proponent will be squarely responsible for proper implementation of solid waste management plan, prevention of air pollution, water pollution, and any other kind of pollution/health hazard.

Part C. General Conditions:

- i. **This order is valid for a period of 20 years or expiry date of mine lease or land lease period issued by the Government of A.P., whichever is earlier.**
- ii. While giving CTE/CTO, the APPCB is to ensure compliance of guidelines issued in G.O RT No 239 dt 16.04.2020 and Memo. No/ covid-19/2020/HMFW dt 18.04.2020 issued by Medical, Health and Family welfare department, Government of AP and the Ministry of Home Affairs order No 40-3/2020/DM-DA dt 15.04.2020 scrupulously.
- iii. The proponent shall scrupulously follow any conditions stipulated by Revenue department/ Panchayat Raj/ Municipal administration/local self government bodies (Gram panchayat/Gram secretariat) in ensuring safety to human and animal life. The APPCB to ensure the same while according CTE/CTO.
- iv. Proponent shall ensure that there is no disturbance to flora and fauna. Serenity of nature must be protected at any cost.
- v. In respect of Government land for mining, the responsibility has been fixed on concerned AD, Mines & Geology Department to check whether necessary clearances from revenue department are obtained.

- vi. In case of patta land while granting mine lease ADMG should verify the land lease documents.
- vii. In respect of Forest land given in lease for mining, the proponent shall scrupulously adhere to the mining conditions stipulated by the Forest department, Government of Andhra Pradesh.
- viii. Any change in mining plan/ production/ mining methodology the proponent shall apply afresh EC.
- ix. While taking up mining activity the proponent shall meticulously follow approved mining plan/Form-1/EMP.
- x. Once in a year proponent shall conduct impact analysis on environment by reputed institute recognized by Director General, Mines and Safety.
- xi. "Consent to Establish" & "Consent to Operate" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act to carry on mining.
- xii. No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, AP/ MoEF&CC, GoI, New Delhi, as applicable.
- xiii. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment & Forests, its Regional Office, Vijayawada, SEIAA, Regional Directorate, Central Pollution Control Board, Bangalore, District Collector and A.P. Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.
- xiv. Post Environment Clearance Monitoring: It shall be mandatory for the project manager to submit half yearly compliance reports in respect of the stipulated prior EC terms and conditions in hard and soft copy to SEIAA on 1st June and 1st December of each calendar year. (Refer 10(i) and 10(ii) of S.O. 1533(E) of Ministry of Environment and Forests Notification, New Delhi, dt 14th September, 2006.)
- xv. The APPCB shall monitor the EC conditions stipulated by SEIAA as per G.O.Ms.No.120 dated 01.11.2018 of EFS&T Dept., and ensure the compliance.
- xvi. The proponent shall obtain prior permissions and continued guidance from

regulatory authorities for all the above conditions wherever it is required.

- xvii All safety norms as stipulated in various laws and statutes shall be scrupulously followed by the proponent. APPCB shall ensure compliance to the conditions stipulated by SEIAA.
- xviii The Proponent shall follow G.O.Ms.No.107 dated 30.07.2016 of Industries & Commerce (Mines-II) Department wherever applicable.
- xix. "Consent to Establish" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity /construction work at site.
- xx. Officials from the Regional Office of MoEF&CC, Vijayawada / The SEIAA, Andhra Pradesh through the Regional Offices of Andhra Pradesh Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF&CC, Vijayawada.
- xxi. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- xxii Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Vijayawada and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- xxiii Personnel working in dusty areas should wear protective respiratory devices
 - i. and they should also be provided with adequate training and information on safety and health aspects.
- xxiv The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
- xxv Occupational health surveillance program of the workers should be undertaken
 - periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- xxvi A separate environmental management cell with suitable qualified personnel
 - i. should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

- xxv The funds earmarked for environmental protection measures (**Capital cost** ii. **Rs.3.21 Lakhs and Recurring cost Rs.3.05 Lakhs/annum**) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Vijayawada.
- xxv At least 2% of the total project cost shall be allocated for Corporate iii. Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared in accordance to the MoEF&CC's office Memorandum No.F.No.22-65/2017- IA.III, dated.01.05.2018 and submit to the SEIAA, A.P and Ministry's Regional Office, Vijayawada.
- xxi The project proponent shall submit the copies of the environmental clearance X. 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.
- xxx The project authorities should advertise at least in two local newspapers · widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
- xxx The SEIAA or any other competent authority may alter/modify the above i. conditions or stipulate any further condition in the interest of environment protection.
- xxx The proponent shall obtain all other mandatory clearances from respective ii. departments before taking-up the mining activity.
- xxx Any appeal against this Environmental Clearance shall lie with the National iii. Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xxx Concealing the factual data or failure to comply with any of the conditions iv. mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xxx The SEIAA may revoke or suspend the order, if implementation of any of the v. above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxx SEIAA also reserves the right to cancel the EC issued at anytime, if EC has vi. been obtained by the proponent through suppression of any information or furnishing false information.

xxxThe above conditions will be enforced inter-alia, under the provisions of the
vii. Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their subsequent amendments and rules.

Special Secretary To Govt

MEMBER SECRETARY, SEIAA, A.P.	MEMBER, SEIAA, A.P.	CHAIRMAN, SEIAA, A.P.
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To

Sri.C.Venkata Ramana,
S/o.C.C.Ganganna,
D.No.1-1456-1, Yerramukkapalli (P),
YSR Kadapa District-516004,
Andhra Pradesh.
Ph.No.9603558465.

Copy to:

1. The Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: YSR Kadapa District, APPCB for information.
4. The Regional Officer, MOEF&CC, GoI, Vijayawada for kind information.
5. The Secretary, MoEF&CC, GoI New Delhi for kind information.
6. Monitoring cell, MoEF&CC, GoI, New Delhi for kind information.
7. The District Collector, YSR Kadapa District, Andhra Pradesh for kind information.

Additional EC Conditions:

I. Statutory Compliance:	
1.	The Environmental clearance shall be subject to orders of the 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.
2.	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.
3.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
4.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
5.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
6.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
II. Air Quality Monitoring And Mitigation Measure:	
7.	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. 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.
8.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.
9.	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
10.	Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analyzed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyses the implementation of river diversion, meeting to the requirement of project report.
III. Water Quality Monitoring And Mitigation Measures:	
11.	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 GSR742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
12.	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 27thMay, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
13.	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.
14.	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks 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.
15.	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.
IV. Noise And Vibration Monitoring And Prevention	
16.	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 program for users to be conducted. Progress in usage of such accessories to be monitored.
17.	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.
V. Mining Plan	
18.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
19.	No change in mining method i.e. UG to OC, calendar program and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
20.	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by relevant mining laws and relevant circulars issued by Directorate General Mines Safety (DGMS).
21.	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.
22.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
VI. Land Reclamation:	
23.	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).
24.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
25.	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.
26.	Native tree species shall be selected and planted over areas affected by subsidence.
VII. Public Hearing And Human Health Issues:	
27.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
28.	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 work force 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.
29.	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.
30.	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.
31.	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.
32.	If public hearing is conducted, implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.

33.	The project proponent shall follow the mitigation measures provided in this Ministry's OMNo.Z-11013/5712014-IA.I1 (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'.
34.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
35.	PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone with time bound action plan.
36.	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius.
VIII. Corporate Environment Responsibility:	
37.	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.
38.	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.
39.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
40.	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). Any non- compliance or infringement should be reported to the concerned authority.
IX. Miscellaneous:	
41.	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.
42.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
43.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

44.	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.
45.	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).
46.	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.
47.	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
48.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
49.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.