

No. J-11015/78/2013-IA-II(M)
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT AND FORESTS
IA-II (Coal-Mining) Division

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi- 110 003

Dated: 21st February, 2014

To,

Shri A. Manohar Rao
Director (Planning & Project)
M/s Singareni Collieries Company Ltd.,
Kothagudem Collieries,
Kothagudem, Dist. Khammam,
Andhra Pradesh

Subject: Expansion (under 7(ii) of EIA Notification 2006) of Manuguru Opencast – II Coal Mining Project (from 5 MTPA to 6.25 MTPA in an ML area of 1526.20 ha (3205.76 ha - 1679.56 ha = 1526.20 ha); Latitudes 17° 55' 34" to 17° 59' 11" N and Longitudes 80° 43' 57" to 80° 47' 27" E) M/s The Singareni Collieries Company Ltd., Dist. Khammam, Andhra Pradesh - Environment Clearance- reg.

Sir,

This is with reference to letter no. CRP/ENV/A/431A/121 dated 18.02.2013 and revised application reference to letter no. CRP/ENV/A/431A/600 dated 28.08.2013 along with the application for expansion of the production under section 7(ii) of the EIA Notification, 2006. EC was granted to the project vide letter no J-11015/144/2007-IA-II(M) of dated 31.07.2008.

2. The Ministry of Environment & Forests has considered the application. The proposal was considered in the 5th EAC meeting held during 25th - 26th November, 2013 which recommended the project for the Environmental Clearance to the project. It is noted that the proposal is for grant of Environmental Clearance for expansion (under 7(ii) of EIA Notification 2006) of Manuguru Opencast – II Coal Mining Project (from 5 MTPA to 6.25 MTPA in an ML area of 1526.20 ha (3205.76 ha - 1679.56 ha = 1526.20 ha); Latitudes 17° 55' 34" to 17° 59' 11" N and Longitudes 80° 43' 57" to 80° 47' 27" E) M/s The Singareni Collieries Company Ltd., Dist. Khammam, Andhra Pradesh. The proponent informed that:

- i. It is the expansion project of M/s SCCL to which Ministry accorded EC vide letter no. J-11015/144/2007-IA.II (M) dated 31.07.2008
- ii. The latitude and longitude of the project are 17° 55' 34" to 17° 59' 11" (North) and 80° 43' 57" to 80° 47' 27" (East) respectively.
- iii. The land usage of the project will be as follows:

Pre-mining:

Class	Area in ha	Area in %
Forest Land	2673.70	83.40
Agricultural land	277.99	8.68
Water bodies	26.00	0.81
Grazing land	111.76	3.49
Waste land	8.71	0.27
Government Land	77.60	2.42
Habitat	30.00	0.93
Total Area	3205.76	100.00

Post-mining:

Sl. No	Description	Land Use Details (ha.)				
		Plantation	Water body	Public Use	Other Uses	Total
1	Excavation Area					
	(a) Backfilled area	616.80	--	--	--	616.80
	(b) Void area left	--	809.90	--	--	809.90
2	External waste dump	1070.10	---	---	---	1070.10
3	Nallah Diversion & Bund	136.46	230.67			367.13
4	Diversion of Road			2.04		2.04
5	Service Buildings & CHP				106.03	106.03
6	Protective bund around quarry & dump area	138.42			95.34	233.76
	TOTAL	1961.78	1040.57	2.04	201.37	3205.76

Core area:

Particulars	Total Land Requirement (ha.)			Land Under Possession of SCCL (ha.)			Land to be Acquired (ha.)		
	Non-Forest	Forest	Total	Non-Forest	Forest	Total	Non-Forest	Forest	Total
Quarry Area	121.54	1305.2	1426.74	16.30	662.69	678.99	105.24	642.51	747.75
OB Dumps	262.23	807.83	1070.06	56.06	219.74	257.8	206.17	588.09	794.26
Safe Barrier, Drainage, etc.	59.01	174.75	233.76	3.07	36.71	39.78	55.94	138.04	193.98
Road Diversion	1.79	0.25	2.04	0	0	0	1.79	0.25	2.04

Vagu Diversion	85.32	281.81	367.13	0	0	0	85.32	281.81	367.13
Service Buildings	2.17	103.86	106.03	2.17	75.00	77.17	0	28.86	28.86
Total Land Requirement	532.06	2673.7	3205.76	77.60	994.14	1071.74	454.46	1679.56	2134.02

- iv. The total geological reserve is 344.88 MT. The mineable reserve are 264.20 MT, extractable reserve are 244.78 MT. The extraction would be 71 %.
- v. The coal grade is G-9. The average Gradient is 1 in 5.5 to 1 in 7.0. There will be total twelve seams with thickness ranging from 0.78 to 21.23 m.
- vi. The total estimated water requirement is 3500 m³/day. The level of ground water ranges from [winter (2012): 0.89 m to 6.75 m; Pre monsoon (2012): 1.00 m to 8.45 m; Monsoon (2012): 0.55 m to 4.75 m; Post Monsoon (2012): 0.45 m to 4.65 m]. Void of 8.9.90 ha at a depth of 45 m proposed to be converted into water body.
- vii. The Method of mining would be opencast deploying Shovel/Backhoe-Dumper Technology.
- viii. There is one external OB dump covering an area of 1070 ha having a height upto 120 m with the quantity of 695.296 m³(B). There is one internal dump covering an area of 973.51 ha of 120 m height.
- ix. The life having a height of 120 m with a quantity of 1235.05 m³.
- x. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- xi. The life of mine is 40 Years (balance).
- xii. Certificate of compliance of earlier EC from MoEF, Regional office, Bangalore has been received vide letter no. EP/12.1/715/AP dated 20th July 2013.
- xiii. **Transportation:** Coal transportation in pit to surface CHP by Belt Conveyors and Siding to Loading by wagon.
- xiv. There is R & R involved. There are 330 PAFs.
- xv. **Cost:** Total capital cost of the project is Rs. 992.96 Crore. CSR Cost and the amount contributed is around Rs. 5/- per tonne of coal. R&R Cost Rs. 12. 37 Crore (total), in which spent so far is Rs.2.13 Crore. Environmental Management Cost is Capital cost – Rs. 14.50 Crore. Recurring cost – Rs. 25.54 per Tonne. CSR Policy is under finalization; presently SCCL is carrying CSR works under the programme called Surrounding Habitat Assistance Programme” (SHAPE). Rs .796.55 lakhs has been earmarked for CSR activities which include de-siltation of Kattavagu irrigation tank & bund strengthening; Laying of pumping main to elevated service reservoir, Bhagath Singh Nagar; Special repairs and BT Road from Government Junior College to Railway Gate, Kunavaram; Construction of BT Road from PK-1 Incline Centre to Government School, Manugurur; Providing shed and approach road for proposed barrial ground at PV Colony; Construction of side drains and lying of CC road in Manuguru; Construction of side drains and lying of CC road in Samithisingaram Grampanchayat; Widening of Road leading to Government Junior
- xvi. **Water body:** Gorripeta vagu - 16.68 Km diversion (No objection certificate from I& CAD department was obtained Vide-I&CAD, GoAP Lr. No. 12219/M.I.II(2)/2008-1, dated 17.5.2008.
- xvii. **Approvals:** Clearance for abstraction of ground water has been obtained vide letter no. 483/T/SCCL/2007 dated 20.10.2007. Board’s approval obtained vide letter no. CRP/CS/054/469 dated 02.07.2007. Mining plan has been approved on 18.03.2008. Mine Closure Plan Mine closure plan is integral part of Mining Plan.
- xviii. **Wildlife issues:** The project is at a distance of 7.5 Km from the Kinnerasani Wild Life Sanctuary.

- xix. Four species of Odonata, 12 butterflies, 28 birds, 35 reptiles and 11 mammals were recorded. An amount of Rs. 1, 59,64,736 was paid towards Wildlife Habitat Amelioration Scheme.
- xx. **Forestry issues:** Total forest area involved for mining 2673.70 ha. Out of 2673.70 ha, an extent of 994.14 ha has already been diverted under the provisions of Forest (Conservation) Act 1980 for which the Stage-I FC s are available. Stage-I FC for balance forest land of 1679.56 ha is not available at present. The proponent has moved application which are with different approving bodies such as State Government and MOEF.
- xxi. Total afforestation plan shall be implemented covering an area of 1967.78 ha at the end of mining. Green Belt over an area of 173.95 ha. Density of tree plantation 2500 trees/ ha of plants.
- xxii. There are no court cases/violation pending with the project proponent.

3. The Committee deliberated upon the compliance report received from MoEF, Regional office, Bangalore vide letter no. EP/12.1/715/AP dated 20th July 2013. The Committee noted that while large numbers of EC conditions have been complied, some other EC conditions are in the process of compliance. These includes: separate account of funds for environmental protection , fugitive control of dust emissions from all the sources, regular submission of data on ambient air quality ,adequate measures for control of noise levels , proper collection of industrial wastewater , treated , regular monitoring of vehicular emissions personnel safety devices & occupational health surveillance, establishment of four ambient air quality monitoring stations.

4. Further, the proponent is also required to follow the Guidelines issued by the FC Division of the Ministry of Environment & Forests, vide no. 11-362/2012-FC dated 01-02-2013, “Guidelines for diversion of forest land for non-forest purposes under the Forest (Conservation) Act, 1980. Submission of proposals to obtain forest land located within the mining lease and grant of environment clearance to mining projects” addressed to the Principal Secretary (Forests), Principal Secretary (Environment) of all the States/UT Govts. and copy to concerned Government Departments/Organisations which prescribes, inter-alia, the following:

“ (iii) As regards Environment Clearance (EC) cases of existing mining operations, where approval under the FC Act for the full forest area in the mining lease area is not available, granting of EC may be considered and the following process will be adopted for processing such cases:

- a) Grant of EC may be considered only for the non-forest area plus the forest area within the mining lease for which FC is available. No mining activities will be allowed in forest area for which the FC is not available; and
- b) The project proponent will seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines, failing which the mining lease area will be reduced to the non-forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed.”

5. The proposal was considered in the 5th EAC meeting held on 25th - 26th November, 2013 and recommended for granting Environmental Clearance. The Ministry of Environment & Forests has examined the application in accordance with the EIA Notification 2006 and under the provisions

thereof, hereby recommends for Environmental Clearance for expansion (**under 7(ii) of EIA Notification 2006**) of **Manuguru Opencast - II Coal Mining Project (from 5 MTPA to 6.25 MTPA in an ML area of 1526.20 ha (3205.76 ha - 1679.56 ha = 1526.20 ha); Latitudes 17° 55' 34" to 17° 59' 11" N and Longitudes 80° 43' 57" to 80° 47' 27" E)** M/s **The Singareni Collieries Company Ltd., Dist. Khammam, Andhra Pradesh** and under the provisions of the Environmental Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific and general conditions. You will need to seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines (i.e. 01 February, 2013), failing which the mining lease area will be reduced to the non-forest area plus the forest area for which you have been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, you will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed.

A. Specific Conditions:

- i. No mining operations shall be undertaken in the 1679.56 ha forest land until clearance has been obtained under the provisions of FC Act, 1980. The guidelines issued by FC Division of the Ministry of Environment & Forests, as mentioned in para 4 above shall be followed.
- ii. Environmental clearance to the proposal is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the Standing Committee of National Board for Wildlife, as applicable.
- iii. Conservation Plan for flora and fauna shall be prepared in consultation with the Andhra Pradesh Forest Department/Chief Wildlife Warden for implementation of the plan with adequate budgetary provision.
- iv. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- v. The conditions as stipulated in the earlier EC no. J-11015/144/2007-IA-II(M) dated 31.07.2008 shall also be complied with.
- vi. The barren OBD shall be handled so as to have minimum void.
- vii. Project Authority should obtain clearance from National Board for Wild Life (NBWL), as applicable.
- viii. Rs.796.55 lakhs as has been earmarked for CSR activities be spent and the progress be uploaded in the company's website.
- ix. A detailed soil management plan should be in place.
- x. The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.
- xi. The Committee desired that a plan for repairing/plugging the cracks found in houses should be drawn up and implemented.
- xii. Coal transportation in pit to surface CHP by Belt Conveyors and Siding to Loading by wagon
- xiii. The production shall be within the same Mining Lease area.
- xiv. The OB shall be completely re-handled at the end of the mining.
- xv. Final mine void depth will not be more than 45 m. The void area will be converted into water body. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.
- xvi. Garland drains be provided.
- xvii. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xviii. The land after mining shall be brought back for agriculture purpose.

- xix. Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.
- xx. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- xxi. A project specific R&R prepared for the project shall be implemented. R&R for a cost of not less than Rs. 12.37 crores for the 330 PAFs shall be completed within an agreed time schedule. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
- xxii. Every person in the core area should be provided with mask for protection against fugitive dust emissions.
- xxiii. Dust mask to be provided to everyone working in the mining area.
- xxiv. The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.
- xxv. People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
- xxvi. The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.
- xxvii. The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- xxviii. There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- xxix. OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its concerned Regional office on yearly basis.
- xxx. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- xxxi. Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- xxxii. Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
- xxxiii. Drills shall be wet operated.
- xxxiv. The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,
- xxxv. Controlled blasting shall be practiced with use of delay detonators and only during daytime. The proponent would need to repair the cracks in the houses if it occurred on account of blasting. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- xxxvi. A Progressive afforestation plan shall be implemented covering an area of 1967.78 ha at the end of mining, which includes reclaimed External OB dump area (1070.06 ha), Internal OB dump area (616.84 ha), and Green belt (173.95 ha) in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density

of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.

- xxxvii. An estimated total 1923.796 Mm³ of OB will be generated during the entire life of the mine. Out of which 695.296 Mm³ of OB will be dumped in four external OB Dumps in an earmarked area covering 1076.56 ha of land. 1228.50 Mm³ of OB will be dumped in one internal OB Dumps in an earmarked area covering 973.51 ha of land. The maximum height of external OB dump for hard OB will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEF and its Regional Office on yearly basis.
- xxxviii. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxix. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
 - xl. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
 - xli. No groundwater shall be used for mining operations.
 - xl.ii. Of the total quarry area of 3205.76 ha, the backfilled quarry area of 616.84 ha shall be reclaimed with plantation and a void of 809.90 ha at a depth of 45 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
 - xl.iii. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.
 - xl. iv. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
 - xl. v. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
 - xl. vi. Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
 - xl. vii. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
 - xl. viii. For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its concerned Regional office
 - xl. ix. A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within 6 months of grant of Environmental Clearance.

1. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- li. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.
- lii. Corporate Environment Responsibility:
 - a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions:

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- v. Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- vi. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.

- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- xiii. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.
- xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
- xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xix. The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail.

6. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.

7. The proponent shall establish an Environmental Audit Cell, which should be responsible and accountable to ensure compliance of all conditions stipulated in the EC.

8. The proponent is required to 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.

9. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

10. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.

11. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

12. This EC supersedes the earlier EC, vide letter no. J-11015/144/2007-IA-II(M) dated 31.07.2008.

(Dr. Manoranjan Hota)
Director

Copy to:

1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Andhra Pradesh, Secretariat, Hyderabad.
3. Chief Conservator of Forests, Regional office (SZ), Ministry of Environment & Forests, 4th Floor, F-Wing, Kendriya Sadan Block, Kormangala, Bangalore – 560034.
4. Principal Conservator of Forests, Govt. of Andhra Pradesh, Aranya Bhawan, Saifabad, Hyderabad
5. Member Secretary, Andhra Pradesh State Pollution Control Board, Paryavaran Bhawan, A-3 Industrial Estate, Sanatnagar, Hyderabad – 500038.
6. Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
7. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
8. District Collector, Khammam, Government of Andhra Pradesh.
9. IG (Wild Life), Ministry of Environment and Forests, New Delhi
10. Monitoring File 11. Guard File 12. Record File 13. Notice Board.

(Dr. Manoranjan Hota)
Director