



State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 165 MIN 2016

Date: 05-10-2016

To,

Sri Arun Kumar Chirania
Managing Partner
M/s. M Hanumantha Rao
H. No.37, ward No.17,
Ground Floor, Main Road, Near Park,
Patel Nagar, Ballari-583 101

Sir,

Sub: Expansion of Iron Ore Mining at SM Block Iron ore mine,
Donimalai range, Narayanapura Village, Sandur Taluk, Ballari
District by M/s. M Hanumantha Rao - Issue of Environmental
Clearance - Reg.

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This has reference to your application dated 16th July 2007 and online application dated 5th May 2016 bearing proposal No.SIA/KA/MIN/11358/2007 addressed to SEIAA, Karnataka on the subject mentioned above. It has been noted that the proposal is for grant of Environmental Clearance under the provisions of EIA Notification, 2006, for Mining of Iron ore.

2. It is, inter-alia, noted that Environmental Clearance has been issued by MoEF, Govt. of India to this project vide letter No. J-11015/344/2006-IA.II (M) dated 6th March 2007 for enhancement of production of iron ore from 50,000 TPA to 3,00,000 TPA and Sub grade iron ore of 90,000TPA on an area of 17.40 Ha as the forest clearance was granted for an area of 17.40 Ha.

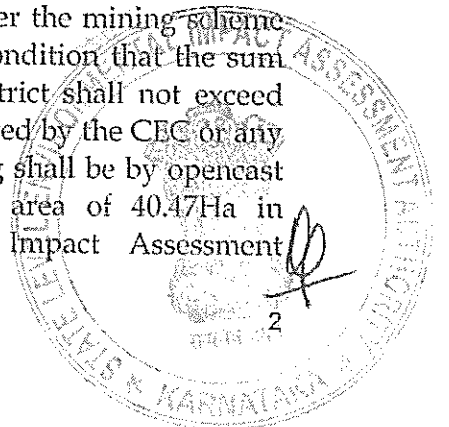
3. Your application dated 16th July 2007 for the Environmental Clearance to the proposed expansion was dealt in the Authority in file No. SEIAA 27 MIN 2007 and was appraised as per the prescribed procedure in light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form 1, Mining plan, EMP/EIA Report, and the additional clarifications furnished in response to the observations of the SEAC, Karnataka, in its meetings held on 8th June 2010 and SEAC has recommended for issue of Environmental Clearance for the proposed expansion.

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4. The present proposal is for expansion of mining of iron ore from 3 LTPA to 5LTPA and sub grade ore from 90,000TPA to 1.55LTPA in a total mine lease area of 40.47 Ha inclusive of additional mine lease area of 23.07Ha, which is a Forest Land. Out of 40.47 Ha of area, 29.34 Ha area is for Mining, 5.33Ha area is for storage of Over Burden, 1.0 Ha area is for roads, 0.5 Ha area is for Mineral separation plant and 4.30Ha area is as undisturbed. Working will be opencast by mechanized mining method. The water requirement for the project is 95 KLD will be met from nearby Bore well. During the plan period about 2.487Million tones of OB will be handled. Ministry of Environment and Forests, Government of India has accorded Forest Clearance under Forest (Conservation) Act 1980 for diversion of 17.40Ha of forestland vide letter F. No. F(C) A 16.1/KAR/44/MIN dated 17th February 2006 and 23.07Ha of forest land vide letter No. F. No. F (C) A/16.1/144/KAR/MIN/850 dated 29th September 2016 for mining lease in favor of M/s. M Hanumantha Rao. Mining lease valid up to 11th December 2025. The Indian Bureau of Mines has approved modified mining plan on 10th January 2008 and 3rd March 2016 for lease area of 40.47Ha. Capital cost of the project is about Rs. 600Lakhs.
5. The project proposal has been considered by SEAC on 29th February 2008 and ToRs were issued on vide letter dated 25th March 2008 for conducting Environment Impact Assessment Study. The EIA has been conducted by M/s Mineral Engineering Services, Mining & Environmental Engineers, 25/XXV, Club Road, Bellary-583 103. The Public Hearing for the project was held on 11th November 2008. The proponents have submitted the EIA report on 4th September 2009.
6. Based on the information submitted by you and the presentation made by Environmental consultant, M/s Mineral Engineering Services, Mining & Environmental Engineers, 25/XXV, Club Road, Bellary-583 103. The State Level Expert Appraisal Committee (SEAC) examined the proposal during the meetings held on 21st November 2009, 6th February 2010 and 8th June 2010 and has recommended for issue of Environmental Clearance.
7. The SEIAA Karnataka after due consideration of the relevant documents submitted by the project proponent, additional clarifications furnished in response to its observations and the recommendation of the SEAC have in its meeting held on 7th September 2016 and decided to accord Environmental Clearance under the provisions thereof to the above mentioned M/s. M Hanumantha Rao for expansion of Mining of Iron ore from 3 LTPA to 5 LTPA and Sub grade iron ore from 0.9LTPA to 1.55 LTPA as per the mining scheme approved the Indian Bureau of Mines and subject to condition that the sum total of annual production from all leases in Ballari district shall not exceed 25 MMT or any modification in this limits to be incorporated by the CEC or any other competent Authority from time to time. The Mining shall be by opencast by mechanized mining method involving mine lease area of 40.47Ha in accordance with the provisions of Environmental Impact Assessment



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Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions: -

A. SPECIFIC CONDITIONS:

1. Mining plan approved by Indian Bureau of Mines shall be strictly implemented and the mine shall not be operated beyond the validity period of the approved mining plan.
2. Sum total of annual production from all leases in Ballari district shall not exceed 25 MMT or any modification in this limits to be incorporated by the CEC or any other competent Authority from time to time and in the event it is found that the sum total of the annual production is exceeding the limit fixed, then the permissible annual production will automatically subject to reduction on pro-rata basis.
3. Project authorities shall get the health checkup done for the mines workers and the nearby villagers once in six months and submit report periodically.
4. The SEIAA, Karnataka reserves the right to withdraw the Environmental Clearance subject to any change in the mining policy by the State Government as may be applicable to this project.
5. Afforestation be taken up in consultation with Forest Department.
6. Management Plan for the Core Zone for the entire lease period, for planting and soil and moisture conservation measures should be strictly implemented and periodical progress report submitted to the Authority/ Ecology and Environment Department, GOK.
7. The Management plan proposed for the surrounding/near by Forestland for wild life management and soil and moisture conservation works including closing the land by fencing, fire protection, engagement of watch and ward etc to an extent of 5 times the mine area and periodical report submitted to the Authority/ Ecology and Environment Department, GOK.
8. The project proponent shall obtain necessary orders from the Forest Department before starting mining operation in that area.
9. The environmental clearance is subject to any policy change by the State Government as may be applicable to this project.
10. This Environmental Clearance is co-terminus with the lease granted under F(C) Act 1980 or mining lease under MM (D & R) Act 1957 whichever is earlier.
11. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.
12. All the conditions stipulated in the Consent for establishment issued by Karnataka State Pollution Control Board should be effectively implemented.
13. The mining operations shall not intersect ground water table. Prior approval of the SEIAA / Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.
14. The topsoil should be stacked at earmarked site only and should not be kept unutilized for a period more than 3 years. The topsoil should be used for reclamation and plantation.

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15. Over burden shall be stacked at earmarked site (s) only and should not be kept active for long period. The maximum height of the dump should not exceed 30m having 3 terraces of 10m each. The overall slope of the dump shall not exceed 27°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas use of geo textiles shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka, Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Bellary and the Regional Office MoEF, Bangalore on six monthly basis.
16. Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc., The drains should be regularly de-silted particularly after monsoon and maintained properly. Check dams and water harvesting structures be under taken to completely harvest the rain water.

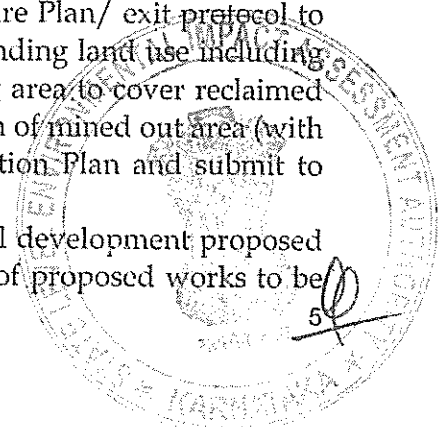
Garland drain (size, gradient and length) shall be constructed for mine pit, soil, OB and mineral dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and de-silted at regular intervals.
17. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.
18. The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central/State Ground Water Board within 3 months and report be submitted to the Authority.
19. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers during the mining operation. The monitoring should be carried out four times in a year. Pre-monsoon (April - May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Department of Environment and Ecology, Govt. of Karnataka, Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Bellary and the Regional office MoEF, Bangalore Central Ground Water Authority and Regional Director, Central Ground Water Board.
20. Appropriate mitigation measures should be taken to prevent pollution of nearby water bodies in consultation with the Karnataka State Pollution Control Board.

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21. The project proponent shall submit clearance from the competent authority for drawl of requisite quantity of water for the project before starting work on the project.
22. Suitable rainwater harvesting measures on long-term shall be planned and implemented in consultation with Regional Director, Central/State Ground Water Board.
23. Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.
24. Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
25. Drills shall either be operated with dust extractors or equipped with water injection system.
26. Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka and the Regional Office, MoEF, Bangalore.
27. The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.
28. Consent to operate should be obtained from State Pollution Control Board prior to start of production from the mine if applicable.
29. Proper sanitary facilities should be installed for the colony. Domestic waste generated should be disposed in a scientific manner. Proper first aid facilities and health care facilities should be provided for the labourers.
30. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. The proponent shall contribute towards the cost of implementation of the plan and / or Regional Wildlife Management Plan for conservation of wild life. The amount so contributed shall be included in the project cost. A copy of the action plan may be submitted to the SEIAA, Department of Environment and Ecology, Govt. of Karnataka, the Regional Office, MoEF, Bangalore and the Regional Director (ENV), Bellary within 3 months.
31. The project proponent shall delineate Mining Closure Plan/ exit protocol to rehabilitate the mined out land to match its surrounding land use including removal, storage and reuse of top soil from mining area to cover reclaimed area. Post Mining Land Use Plan with rehabilitation of mined out area (with Plan and Section) provided Flora Fauna Conservation Plan and submit to SEIAA.
32. A master plan indicating clearly the details of social development proposed by the PAs with year wise investment and details of proposed works to be



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taken up for the entire lease period for the local villages shall be submitted immediately to the SEIAA.

33. Plantation monitoring programme during post project period for ensuring survival and growth rate of plantation in reclaimed area.
34. A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka, Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Bellary and the Regional Office, MoEF, Bangalore 5 years in advance of final mine closure for approval.
35. Check dams and gully plugs along the smaller streamlets in the area, should be constructed to arrest the loose soil flow from the mine area.
36. The provisions of FC Act 1980-para 2 need to be followed. A location map of the mine on a 1:50,000 scale Sy. of India Topo-sheet should be provided. This map should depict the location of other mines (existing and proposed) in the buffer zone area. The targeted production levels of the existing and proposed mines in the buffer zone need to be provided. The land use pattern of the buffer zone also needs to be provided. This information should be submitted to the Authority immediately.
37. Particulars of ore and sub-grade ore production and dispatch till date should be provided by the mine owner and yearly report in future.
38. The infrastructure of transport roads should be improved collectively by the mine owners of the area.
39. Link road from mining site to main road shall be maintained and black topped by the project proponent.
40. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as haul road, loading and unloading point and all transfer points.
41. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the MoEF, Govt. of India, New Delhi .
42. Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
43. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
44. Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.
45. The project proponent shall establish electronic weighing bridge at the mine head, so as to keep the correct weight of the minerals removed.
46. The recommendation of the Deputy Commissioner and Chairman of Environmental Public hearing Committee is implemented by the project proponent.

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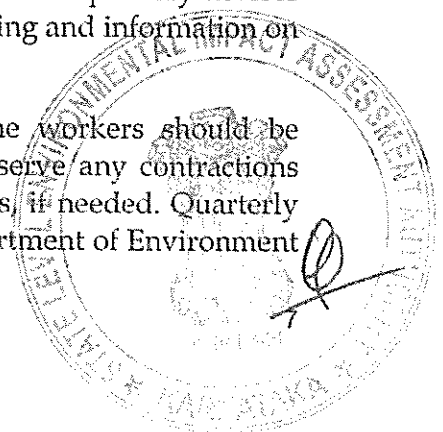
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47. The project authorities shall also earmark at least 5 % of the total turnover of the project towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Authority.
48. The project authority shall ensure that the mine pits are well protected erecting a compound wall of stone masonry of appropriate height conforming to safety norms.
49. The project authority shall avoid stagnation of water in the mine pits which would turn out to be mosquito breeding centers resulting in spreading of diseases such as malaria, dengue, etc.
50. Haulage approach road should not be through village till the main road is reached.
51. The project proponent shall prevent damage to adjoining forest land, from fire due to activities during mining operation.

B. GENERAL CONDITIONS:

1. No change in mining technology and scope of working should be made without prior approval of the SEIAA Karnataka.
2. No change in the calendar plan including excavation, quantum of mineral and waste should be made.
3. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the MoEF, Govt. of India, New Delhi.
4. Data on ambient air quality (PM10, PM 2.5, SO₂, NO_x) should be regularly submitted to the SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the APCCF, Regional Office, MoEF, Bengaluru and the State Pollution Control Board / Central Pollution Control Board once in six months.
5. Fugitive dust emission from all the sources should be controlled regularly. Water spray arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
6. Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc should be provided with earplugs / muffs.
7. Waste water from the mine should 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. Oil and grease trap shall be installed before discharge of effluents.
8. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance program of the workers should be undertaken periodically i.e. once in 3 months to observe any contractions due to exposure to dust and take corrective measures, if needed. Quarterly report in this regard should be submitted to the Department of Environment



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- and Ecology, Govt. of Karnataka and the Karnataka State Pollution Control Board and the APCCF, Regional Office, MoEF, Bengaluru.
9. 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 organization. The Environment management committee should be constituted with one of the member representing nearby village.
 10. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA Karnataka, the Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the APCCF, Regional Office, MoEF, Bengaluru.
 11. The project authorities should inform the SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the APCCF, Regional Office, MoEF, Bengaluru regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
 12. The Regional Office of MoEF, Bengaluru; the Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the Karnataka State Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the Officer (S) of these offices by furnishing the requisite data / information / monitoring reports.
 13. The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the SEIAA Karnataka, Department of Environment and Ecology, Government of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the APCCF, Regional Office, MoEF, Bengaluru; the Central Pollution Control Board and the Karnataka State Pollution Control Board.
 14. A copy of the clearance letter will be marked to the concerned Panchayat. Local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
 15. The project proponent should display the conditions prominently at the entrance of the project on a big panel board for the information of the public.
 16. The Karnataka State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's office for 30 days.
 17. 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 also at website of the Authority at <http://www.seiaa.kar.nic.in> or

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<http://seiaa.karnataka.gov.in> or <http://environmentclearance.nic.in> and a copy of the same should be forwarded to the Department of Environment and Ecology, Government of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Ballari and the APCCF, Regional Office, MoEF, Bengaluru.

18. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.
19. 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.
20. The SEIAA or any other competent authority may alter / modify the above conditions or stipulate any further condition in the interest of environment protection.
21. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
22. 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 made there under.

Yours faithfully,


(RAMACHANDRA) 5/10/16
Member Secretary
SEIAA, Karnataka.

Copy to:

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.
2. The Director, Department of Mines and Geology, Khanija Bhavan, Race course road, Bengaluru - 560 001.
3. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
4. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F Wings, 17th Main Road, Koramangala II Block, Bengaluru - 560 034.
5. Regional Director (Environment), Ecology and Environment Department, Government of Karnataka, Radio Park, Dr. Salim Building, Ballari.
6. Guard File.