



State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment & Forests)

Environmental Planning & Coordination Organization

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No: 943 / SEIAA /17

Date: 29.6.17

To,

M/s Anand Mining Corporation,
Pathak Ward, P.O. Katni
District Katni, (MP)-483330

Sub: - Case No. 5430/2016 Prior Environmental Clearance for **Iron Ore Mine** (Opencast Mechanized Method) in an area of 20.234 ha. for production capacity of 10,00,000 TPA at Khasra No. 680P (old) and 1093 (new) at Village- Agaria, Tehsil-Sihora, Dist. Jabalpur (MP) by M/s Anand Mining Corporation, Pathak Ward, P.O. & District Katni, (MP)-483330.

This has reference to your letter received in SEIAA office on 23.09.2016 and subsequent letters seeking Prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form - I, Pre-Feasibility Report, ToR and subsequently submission of EIA, Public Hearing and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

II. It has been noted that the proposal is for **Iron Ore Mine** in an area of 20.234 ha. The mining lease area is located in Khasra No. 680P (old) and 1093 (new) Village- Agaria, Tehsil-Sihora, Dist. Jabalpur (MP). It lies at geographical co-ordinates at latitude 23°22'37.2" to 23°22'30.2" N and longitude 80°08'37.8" to 80°08'38.5" E. There is no National Park/Santuary within 10 Km radius. Mining Plan is approved by the IBM (vide Letter No. MP/Jabalpur/Iron Ore/MPLN/MOD-07/2016-17/2087 dtd 31.08.2016).

The proposed project is for production capacity 10,00,000 TPA. The mining will be carried out by Opencast Mechanized method. The total water requirement is 40 KLD (25 KLD for Dust Suppression + 12 KLD for Green Belt + 03 KLD Domestic – Drinking & Washing) which shall be met by mine sump, existing hand pump and nearby village. The public hearing was conducted at Mining Parisar, Village- Agaria, Tehsil-Sihora, District - Jabalpur (MP) on dtd. 14.03.2017, under the Chairmanship of Additional Collector, Jabalpur (MP)

III. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th Septezber 2006.

IV. Based on the information submitted, as at Para (II) above and others the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 450th meeting dtd. 24.06.2017 and decided to accept the recommendations of 78th SEAC-II meeting dtd. 25.05.2017.

Hence, Prior Environmental Clearance is granted for **Iron Ore Mine** (Opencast Mechanized Method) in an area of 20.234 ha. for production capacity of 10,00,000 TPA at Khasra No. 680P (old) and 1093 (new) at Village- Agaria, Tehsil-Sihora, Dist. Jabalpur (MP), **for the lease period to M/s Anand Mining Corporation, Pathak Ward, P.O. & District Katni, (MP)-483330**, subject to the compliance of following specific conditions as recommended by SEIAA & SEAC-II and subsequent Standard Conditions.

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At

A. Specific Conditions

1. Before commencing the mining activity, site demarcation should be done leaving 250 m. from the forest boundary as a "no mining zone". This lease area should be thickly planted by native species. The demarcation should be done by the Revenue Officials in the presence of DFO, Jabalpur Forest Department and Mining Officer, Jabalpur.
2. Before commencing any mining activity fencing shall be carried out all around the lease area. Proper watch and ward arrangements should be made with installation of signage at 4 corners of lease area to avoid any untoward incident involving public and animals by the PP.
3. The PP shall demarcate a minimum buffer zone of 100 m from the periphery of the nearest human habitation in north east direction and the existing canal in south & south west direction and 50 m. from the existing pakka road in consultation with officials of Revenue/WRD/Mining/PMGSY/PWD Department around the mining lease area and these will be treated as "no mining activity zone".
4. Plantation programme as mentioned in EIA/EMP and presented during presentation in SEIAA & SEAC shall be followed in content and spirit.
5. During the first year, three row plantation in the buffer zone (7.5 m) will be carried out in the entire periphery of the lease area and additional thick plantation to be taken up towards habitation site in north and north east side. 3000 trees (3 years old) should be planted in the first year with proper watering arrangement. PP should ensure plantation of native species like Mahua, Khamar, Neem, Bamboo, Saja, Tendu, Kachnar, Khair, Bel, Imli, Karrange, Pipal and Mango..
6. To protect the human habitation from dust emissions, the entire periphery from north to north east should have a solid curtaining of suitable material preferably steel sheets of 6 m. height.
7. PP shall strengthened and maintain the transportation road and also construct an additional 2 km Tar road upto NH-7. Tree plantation on both side of the proposed tar road should be undertaken. The cost of tar road @ 25 lakhs per km should be included in the EMP.
8. Transportation of the material shall not be carried out through the village Tangwa, only by pass road shall be used for transportation of materials.
9. PP will not cut any tree and existing Mahua trees in the non mineable area shall be conserved and maintained.
10. PP shall prepare a detailed health check-up plan for the nearby villages and submit it to the district Collector.
11. PP should construct garland drain of appropriate length 3700 m. (size of 2.0mX1.5 m) with stone pitching in entire periphery of mining lease area along with 12 settling pit and 6 settling tank (4 settling tank size 30mX10mX5.50m and 2 settling tank size 50mx25mx5m). PP shall also ensure the proper cleaning and maintenance of garland drain and settling tank.
12. PP shall carry out the water quality analysis through authorised laboratory and if fluoride is found or any other content higher than the prescribed limit shall inform the PHE office immediately for taking further precautionary measures.
13. Ground water table monitoring shall be done for pre monsoon and post monsoon season and record shall be maintained and report shall be submitted to RO, MPPCB Jabalpur and PHE every month.
14. According to the report of CGWB in respect of Jabalpur District (Status of Ground Water Levels In Madhya Pradesh during May 2015), the minimum and maximum ground water table has been indicated as 7 m. and 22 m. respectively. There is every likelihood that to achieve the ultimate depth as per the approved mining plan, the ground water table shall be intersected. PP should ensure that before commencement of mining operation below the ground water table, the approval of the Central Ground Water Board should be obtained. A copy of the Prior EC should also be addressed to Director, CGWB, Paryavas Bhavan Bhopal with copy to the Regional Officer, CGWB, Jabalpur for necessary action.
15. PP shall carry out the mining operations in such a way that a canal situated at 127 m in south direction and a perennial source of water supply is about 1.2 km from the proposed lease area shall not be contaminated
16. Before execution of the mining operation the existing dump and waste will be simultaneously backfilled in the mined out area and plantation will be raised on it. OB dumps will be properly stabilized and conserved by planting suitable shrubs, grasses and low height plants.
17. No overburden will be dumped outside the mine lease area.
18. In order to check siltation due to run off during incessant rains, check dams shall be constructed which will be de-silted after the rainy season.

19. The working minable area will be protected by making a bund around the working face and slope of the back filling/dump yard will be covered with plants & shrubs to avoid the land sliding & soil erosion.
20. PP has committed that construct toe wall length 250 m. (size 1mx1.5m.) around the dump and connected to nearby garland drain.
21. PP has committed no blasting, crushing and screening in the mining lease area.
22. PP shall abide by all safety rules as prescribed by IBM and Industrial health and safety from time to time
23. Interim health check-up of mine workers shall be carried out in 15 days and PP shall also maintain proper record of the health check-up and submit the report to RO, MPPCB, Jabalpur.
24. PP has informed during presentation that it is a zero discharge mine and about 1.0m³/ day of waste water will be generated from domestic use during mining operation and the generated domestic waste water shall be reused after proper treatment for plantation purposes. PP shall ensure the commitment carried out during the presentation.
25. Regular water quality monitoring shall be carried out by PP before discharging it into the nearby Nallah & agriculture fields.
26. Payments of wages to the workers shall be done in consonance with the provisions in the labour laws.
27. Proper infrastructure with shelter, drinking water, toilet and first-aid facilities shall be provided for the labourers. A provision should be made to construct a pakka rest shelter along with toilet and drinking water facility by PP.
28. Water fogging arrangement on internal roads, loading and unloading and transfer point shall be provided and properly maintained.
29. Mining shall be limited to the area as shown in surface plan and as per the approved mining scheme.
30. MPPCB must ensure compliance of the conditions enumerated in the EC before giving any consent to operate.
31. PP will make budget provision of Rs. 76.50 lakhs under Environmental Management Plan for plantation, dust suppression, garland drain, settling tank and road construction and maintenance etc as committed.
32. PP has committed and must ensure under CSR the following activities for which a provision of 15.00 lakhs should be kept
 - a) PP shall implementation water and sanitation programme in Village Ghutna and Agariya.
 - b) PP shall installed solar light at common places in Village Sindursi.
 - c) PP shall provide Health camp, Boundary wall and water facility at Prathmik Vidhalaya in Village Agariya.
 - d) PP shall also provide separate toilet facility for girls and boys with proper arrangement of water (i.e, Water tanks & Pumps) in the school of nearby villages.Need based fund to the development of nearby villages in consultation with the Gram panchayat and District Administration.
33. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
34. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
35. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
36. Transportation of material shall be done in covered vehicles.
37. Transportation of minerals shall not be carried out through forest area.
38. Curtaining of site shall be done through thick plantation of two to three rows all around the boundaries of all part of lease and dominant wind direction.
39. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
40. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
41. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules,

2016 should be obtained by the PP if required.

42. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
43. Regular water spraying system should be provided on 9716 meter long and 03 meter wide village roads. However, regular water spraying should be practiced on haul road for dust suppression. PP should also explore the possibility of providing fixed types of sprinklers for dust suppression.
44. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same. The commitments made in the public hearing are to be fulfilled by the PP.
45. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
46. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
47. The commitments made in the public hearing are to be fulfilled by the PP.
48. Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
49. PP will comply with all the commitments made in by the letter dated 25/05/2017

B. Standard Conditions

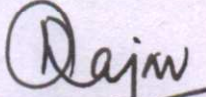
1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
4. Blast vibrations study shall be conducted and submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB within six months. The study shall also provide measures for prevention of blasting associated impact on nearby houses and agricultural fields.
5. Controlled blasting techniques with sequential drilling shall be adopted. The blasting shall be carried out in the day time only.
6. Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.
7. A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB within 5 years in advance of final mine closure for approval.
8. No change in the calendar plan including excavation, quantum of mineral and waste shall be made.
9. Mining will be carried out as per the approved mining plan. In case of any violation of mining plan, the Environmental Clearance given by SEIAA will stand cancelled.
10. Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.
11. The transportation of the minerals extracted from the mining area shall be limited to day hours time only.
12. Maintenance of near by local roads through which transportation of minerals are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped.
13. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
14. Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of check dams and gully plugs shall be constructed across seasonal/ perennial Nallahs, if any, flowing through the ML area and silts arrested. De- silting at regular intervals shall be carried out.

15. The project proponent will ensure necessary protection measures around the mine pit, waste dumps and garland drain.
16. Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with overburden.
17. Overburden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 m, each stage shall preferably be of maximum 10 m and overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled and shall be scientifically vegetated with suitable native species to prevent erosion & surface runoff.
18. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB on six monthly basis.
19. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Deptt. Herbs & shrubs shall also form a part of afforestation programme besides tree plantation. The company shall involve local people for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB every year.
20. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals for transportation shall be committed. The trucks transporting minerals shall not pass through wild life sanctuary, if any in the study area.
21. Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂, NO_x monitoring. 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. The monitored data for criteria pollutants shall be regularly up-loaded and displayed on the company's website.
22. Data on ambient air quality (RPM, SPM, SO₂, NO_x) should be regularly submitted to the Regional office, MoEF, GoI, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
23. Ambient air quality at the boundary of the mine premises shall conform to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09.
24. Fugitive dust emissions from all the sources shall be controlled. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. The dust emission shall be monitored regularly as per norms and records to be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB regularly.
25. Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers engaged in operations of HEMM, etc., shall be provided with ear plugs / muffs and health records of the workers shall be maintained.
26. Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB within six months and thereafter every year from the next consequent year.
27. Regular monitoring of ground and surface water sources for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected shall be regularly sent to Regional Office, MoEF, GoI, Bhopal, MP PCB, Central Ground Water Authority and Regional Director, Central Ground Water Board.
28. The waste water from the mine if any, shall be treated 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. The oil and grease trap shall be installed for the effluents generated from the workshop, if any, before discharging into the natural stream. The discharged water from the tailing dam, if any shall be regularly monitored and report submitted to the Regional Office, Ministry of Environment & Forests, GoI, Bhopal, Central Pollution Control Board, and the State Pollution Control Board.
29. Hydro-geological study of the area shall be reviewed by the project proponent annually. In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented.

30. Occupational health check up for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required. It should be made available for inspection whenever asked. Necessary funds for this also should be earmarked.
31. Project Proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.
32. Persons working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
33. Commitment towards CSR have to be followed strictly.
34. Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.
35. The Project Proponent shall inform to the Regional Office, MoEF, GoI, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
36. The necessary funds as per mandate shall kept for environmental protective measures which should be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Regional Office, MoEF, GoI, Bhopal and MP PCB.
37. The Regional Office, MoEF, GoI, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, Public hearing and other relevant documents should be given to Regional Office, MoEF, GoI, Bhopal and MP PCB.
38. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies, as applicable, in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.
39. The Project Proponent shall 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 web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal.
40. The project proponent has to strictly follow directions/guideline issued by the MoEF, GoI, CPCB and other Govt. agencies from time to time.
41. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, GoI, Bhopal, MP PCB and to the competent authority of the State Govt. within six months.
42. The Project Proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority on 1st June and 1st December of each calendar year.
43. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
44. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
45. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
46. 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 Environment (Protection) Act, 1986.
47. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
48. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of

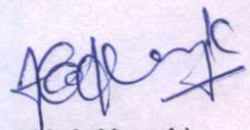
Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

49. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
50. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.


(Anupam Rajan)
Member Secretary

944
Endt No. / SEIAA/17 Dated: 29.6.17
Copy to:-

1. Principal Secretary, Department of Urban Development & Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-4620 16
3. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
4. Collector, District - Jabalpur, (M. P)
5. Divisional Forest Officer, District – Jabalpur, (M. P)
6. I.A. Division, Monitoring Cell, MoEF& CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi- 110 003.
7. Director (S), Regional office of the MOEF, Western Region, Kendriya Paryavaran Bhawan, Link Road No. 3 Ravi Shankar Nagar, Bhopal-462016
8. Director, Geology & Mining, Madhya Pradesh, 29-A, Khanij Bhawan, Arera Hills, Bhopal – 462002.
9. District Mining Officer, District -Jabalpur, (M. P)
10. DEO, SEIAA, for update on website
11. Guard file


(Alok Nayak)
Officer-in-Charge

