

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

**Research and Development Wing**  
Madhya Pradesh Pollution Control Board  
Paryavaran Parisar, E-5, Arera Colony  
Bhopal-4620 16  
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No: 66 /EPCO-SEIAA/ 12

Date: 18-4-12

To,  
Director  
M/S APINDIA Biotech Pvt. Ltd.  
E-7/80, Arera Colony,  
Near Sai Board,  
Bhopal - 16 (MP).

Ph. No. 0755-2420563, 4240551  
Fax No. 2676361

**Sub: Case no. 639/2011,** Prior Environmental Clearance for Rock Phosphate Beneficiation plant for production capacity of 0.06 million TPA at Meghnagar Industrial Area, District Jhabua, MP by M/S APINDIA Biotech Pvt. Ltd., Bhopal.

This has reference to your letter No. Nil dated 06.08.2011 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 and pre-feasibility report and subsequently submission of EIA report and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and Environment Impact Assessment Authority (SEIAA) constituted by competent Authority. The ToR was issued to the PP from MoEF, GoI vide their letter No. F.N-J-11011/554/2010-IA II (1) dtd 07.03.2011.

- ii. It has been noted that the proposal is for rock phosphate beneficiation plant at Plot no. 177, Meghnagar Industrial Area, Tehsil Meghnagar, District Jhabua, Madhya Pradesh. It is located at 22° 46' 11" N and 74° 35' 59" E. The total plant area is 39,996 sq m. The nearest city Jhabua is 15.00 km. from AKVN Industrial Area. The plot site is 5 km away from Meghnagar Railway Station & 155 km from Indore Airport. The Jhabua Rock Phosphate mine of MPSCML is 22 km. There are no Wildlife Sanctuaries, National Parks, and Tiger Reserves within 10 km of radius of the site. Similarly, there is no interstate boundary within 10 km radius of the site.

The total production capacity of rock phosphate beneficiation plant is 0.06 million TPA. The raw material consumption shall include low-grade rock phosphate, sodium silicate, sulphuric acid, sodium oleate and phosphoric acid. The process involves beneficiation of low grade rock phosphate by wet grinding of rock phosphate chips. The water requirement will be 180 KLD for beneficiation process & 4 KLD for domestic use, which will be met through MPAKVN water supply. 100% of the waste water shall be recycled in the

process as per proposal submitted by P.P. The total quantity of municipal solid waste generation would be 27.20 kg / day. An area of 13,200 sq m shall be covered under green belt. As per ToR issued by MoEF, Gol, no public hearing is required as per section 7 (i) III stage (3), Para (1) b of EIA notification, 2006. Industries & Commerce Deptt. of Govt. of MP (vide their notification (No F-11-90/2010/ B / 11 dtd 17.01.2012) has issued list of notified industrial area of the state. The Meghnagar Industrial Area is one of them. No such activity is disallowed in this industrial area. Therefore no public hearing is required as per EIA.

- 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 September 14, 2006.
- iv. Based on the information submitted as at Para ii and iii above, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 83<sup>rd</sup> meeting held on 08.02.2012 and decided to accept the recommendations of 83<sup>rd</sup> SEAC meeting held on 08.11.2011.

Hence, Prior Environmental Clearance is accorded to the Rock Phosphate Beneficiation plant for production capacity of 0.06 million TPA at Industrial Area, Meghnagar, District Jhabua, MP by M/S APINDIA Biotech Pvt. Ltd, Bhopal under the provisions of EIA notification dated September 14, 2006, subject to the compliance of the Standard Conditions enclosed at Annex-I and the following additional Specific Conditions as recommended by SEIAA and SEAC:

1. Total water requirement shall not exceed 180 KLD as per the proposal submitted, 100% waste water shall be re-cycled in the process. No water shall be discharged outside the premises.
2. Entire requirement of water will have to be met by MPAKVN either by enhancing the quantity by AKVN or by reduction in demand of the PP. In any case, no under ground water shall be exploited for the project.
3. A latest analysis for uranium has to be carried through BARC in the Rock Phosphate and Beneficiated ore & shall be reported to MPPCB. If radiation is found more than the permissible limit, the corrective measures shall be taken in accordance to the recommendations of BARC.
4. Garland drain surrounding the raw material storage area has to be constructed which shall be connected to the recycling system. Efforts shall be made to make use of the rain water harvested.
5. Tailings generated from the process shall be sold to SSP plant & also used for brick manufacturing / building material as per the proposal submitted. Storing / dumping of this waste should be avoided. However, if stored or dumped, the ground water monitoring of the area has to be carried out periodically in consultation with MPPCB.
6. Concentration of fluoride has to be monitored in the ground water on regular basis.
7. Dense green area (not less than 33% of the total plot area) shall be developed all around the site especially in the predominant wind direction.
8. Occupational health check-up camps shall be organized regularly and records of health of each and every worker should be maintained at site.

9. Secondary fugitive emissions from all sources shall be controlled within the latest permission limits issued by the Ministry and regularly monitored. Guidelines / Code of practice issued by CPCB shall be followed.
10. Regular monitoring of influent and effluents surface, sub-surface and ground water shall be ensured and waste water shall be re-cycled in the process. Leachate study for effluent generated & analyses should also be regularly carried out and report submitted to ministry and MPPCB.
11. Risk & Disaster Management Plan along with the mitigation measures should be prepared and copy shall be submitted to Ministry & MPPCB.
12. At least Rs. 5.0 lacs shall be spent towards the CSR activities.

Encl: 1 No

  
(Manohar Dubey)  
Member Secretary

Encl No. <sup>67</sup>68 /EPCO - SEIAA/12 Dated: 18-4-12

Copy to:-

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Bhopal.
2. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
3. Member Secretary, SEAC, Research and Development Wing, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-4620 16
4. Collector, Distt-Jhabua, MP.
5. Division, Monitoring Cell, MoEF, GOI, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi- 110 003
6. Regional Officer, Regional Office of the Ministry of Environment & Forest, Gol, Near Arera Petrol Pump, Arera Colony, Bhopal.
7. General Manager, MP AKVN (i) Ltd. Indore, District Indore.
8. Guard file.

  
(Dr. R. P. Singh)  
Officer-in-Charge

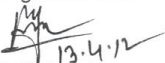
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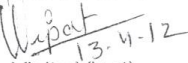
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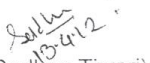
Annex-I

### Standard Conditions related to Activity 2 (b) - Mineral Beneficiation of Primary Processing of Category B projects under the Schedule of Ministry of Environment and Forests, Gol notification dtd 14-09-06

1. Any enhancement of capacity, change in technology, modernization and scope of working shall again required prior environmental clearance as per EIA notification, 2006.
2. All activities / mitigative measures proposed by PP in Environmental Impact Assessment and approved by SEAC must be ensured.
3. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
4. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
5. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S R. No. 826 (E) dated 16<sup>th</sup> November, 2009 shall be followed.
6. Adequate protection against dust and other environmental pollution due to working of the plant shall be made. The status of implementation shall be reported to the Regional office of the Ministry of Environment and Forest at Bhopal and work shall be completed before commissioning of the plant.
7. Ground water quality shall be regularly monitored for contamination and depletion and records maintained. The monitoring data shall be submitted to the Regional office of the Ministry of Environment and Forests at Bhopal regularly.
8. Transportation of ore (beneficiated and otherwise) shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore / dust takes place.
9. The discharged water from the Tailing Dam (if any) shall be reused in the process and regularly monitored and report submitted to the Regional office of the Ministry of Environment and Forest at Bhopal, Central Pollution Control Board and the State Pollution Control Board.
10. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Transportation of ore shall be done only during day time. No overloading of ores for transportation shall be committed.
11. Project Proponent shall explore the possibility of using solar energy where ever possible.
12. The solid waste management has to be taken up as per the proposal submitted by PP.
13. All measures proposed for prevention of any discharge from the industry has to be implemented prior to the commencement of production.
14. Periodic monitoring shall be carried out as per norms for RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data,

  
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(Dr Vinita Vipat)  
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(Dr Sadhna Tiwari)  
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15. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB on six monthly basis.
16. By the end of the lease period 33% of the area should be brought under plantation.
17. 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, Gol, Bhopal and MP PCB every year.
18. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments.
19. Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO<sub>2</sub>, NO<sub>x</sub> 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.
20. Data on ambient air quality (RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>) should be regularly submitted to the Regional office, MoEF, Gol, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
21. Ambient air quality at the boundary of the mine premises shall confirm to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09.
22. 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, Gol, Bhopal and MP PCB regularly.
23. 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.
24. Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB **within six months** and thereafter every year from the next consequent year.
25. 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, Gol, Bhopal, MP PCB, Central Ground Water Authority and Regional Director, Central Ground Water Board.

  
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26. The waste water from the mine shall be treated and chemically tested particularly for TDS to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time before discharging the same into natural environment. 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, Gol, Bhopal, Central Pollution Control Board, and the State Pollution Control Board.
27. 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.
28. Occupational health check up for the workers including identification of work related health hazards, training on health effects on exposure to underground mining activities and hearing impairment if any, through authorized agencies shall be carried out and report should be submitted to MoEF, Gol, MPPCB. 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.
29. Project Proponent shall ensure appropriate arrangement for first aid, shelter and amenities like toilets, drinking water etc., for the mine workers.
30. All safety equipment such as air masks, gum boots, earplugs, helmets etc. shall be provided for mine worker as per provision and they shall also be imparted adequate training and information on safety and health aspects.
31. Commitment towards CSR have to be followed strictly.
32. Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.
33. The Project Proponent shall inform to the Regional Office, MoEF, Gol, 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, if applicable.
34. 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, Gol, Bhopal and MP PCB.
35. The Regional Office, MoEF, Gol, 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, Gol, Bhopal and MP PCB.

  
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36. 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.
37. 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](http://www.mpseiaa.nic.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
38. The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.
39. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, Gol, Bhopal, MP PCB and to the competent authority of the State Govt. within six months.
40. 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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.
41. 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.
42. 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.
43. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
44. 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.
45. 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.
46. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest

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

47. 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, SO<sub>2</sub>, NO<sub>x</sub> (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.
48. The environmental statement for each financial year ending 31<sup>st</sup> 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.

  
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