



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

Environmental Planning Coordination Organization (EPCO)  
Paryavaran Parisar, E-5, Arera Colony  
Bhopal-4620 16

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No: 7305 /SEIAA/2015

Date: 6.11.15


To,  
Shri Manohar Raghuwanshi, Manager  
M/s Madhya Bharat Agro Products Limited (Unit-III),  
127, Rachna Nagar,  
Bhopal (MP)-452001.

**Sub:- Case No. 1708/2013** Prior Environmental Clearance for Beneficiation of Rock Phosphate (BRP) & Manufacturing unit of SSP, GSSP, TSP, Synthetic Gypsum, Phosphoric Acid, Sodium Silica Fluoride at Plot no. A-2 Saurai Industrial Area Village- Saurai, Tehsil – Banda Dist. Sagar, MP; Proposed Production Capacity- 1) BRP through put- 99000 MTPA ; 2) SSP-180000 MTPA, 3) GSSP-180000 MTPA, 4) TSP-66000 MTPA, 5) Synthetic Gypsum-165000 MTPA, 6) Phosphoric Acid-19800 MTPA ; 7) Sodium Silica Fluoride-1320 MTPA by M/s Madhya Bharat Agro Products Limited (Unit-III) through Manager Shri Manohar Raghuwanshi, 127, Rachna Nagar, Bhopal (MP)-452001; Env. Con. – Asian Consulting Engineers Pvt. Ltd. New Delhi. Email: [thada.asp@gmail.com](mailto:thada.asp@gmail.com) Ph -0755 - 2786170

**Ref:** Your application dtd. 15.06.2012 received in SEIAA office on 18.06.2012

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14<sup>th</sup> September 2006 and its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA report, ppt. and additional clarifications furnished in response observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- (i) The proposed project is Beneficiation of Rock Phosphate (BRP) and Manufacturing unit of Single Super Phosphate (SSP), Granulated Single Super Phosphate (GSSP), Triple Super Phosphate (TSP), Synthetic Gypsum, Phosphoric Acid, Sodium Silica Fluoride (SSF) at Plot no. A-2 Saurai Industrial Area Village- Saurai, Tehsil – Banda Dist. Sagar, M.P. Proposed Production Capacity- 1) BRP through put- 99000 MTPA ; 2) SSP-180000 MTPA, 3) GSSP-

  
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Member Secretary

Case No. 1708/2013

Issued vide letter no. 7305/6 dated 6.11.15

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180000 MTPA, 4) TSP-66000 MTPA, 5) Synthetic Gypsum-165000 MTPA, 6) Phosphoric Acid-19800 MTPA ; 7) Sodium Silica Fluoride – 1320 MTPA.

- (ii) The project includes Mineral beneficiation plant with throughout less than 0.1 million ton/annum covered under 2(b) and manufacturing of SSP (Granulated) and allied products without H<sub>2</sub>SO<sub>4</sub> production covered under 5(a) category B of the Schedule of EIA Notification issued by the Ministry of Environment & Forests vide S.O.1533 (E) dtd.14.09.06 & its amendments.
- (iii) There is no National park / Sanctuaries, Eco-sensitive areas, (DFO letter dtd. 19.07.13) within 10 km; critically polluted areas and inter-State boundaries within 05 km of the proposed site hence general conditions are not attracted.
- (iv) The total project land area is 233704.0 sq.m. (23.370 ha). For which PP has executed lease deed (dtd. 09.04.13) between the Governor of M.P. acting through General Manager District Trade & Industries Centre, Sagar and M/s Madhya Bharat Agro Products Limited (Unit-III) for the period of 30 years (09.04.2013 to 08.04.2043).
- (v) Public Hearing was conducted within the industrial area, Village; Saurai, Tehsil; Banda, District; Sagar (M.P) on 04.03.2015 under Chairmanship of Add. Collector, Sagar District Sagar (M.P.). The issues raised during the public hearing were mainly related to employment and dust generation from the unit, which were addressed by PP.
- (vi) The major raw material required for the proposed unit are :-
- Sulphuric acid is proposed to be purchased from outside market.
  - Phosphoric acid will be produced in house and also purchased from outside market.
  - Sodium chloride and calcium carbonate shall be purchased from outside market.
  - Low grade rock phosphate which shall be purchased from State Mining Corporation Mine at Heerapur or Chhatarpur mines and also import.
- (vii) The total water requirement is 1306 KLD (Fresh water – 682 KLD & recycled 624). The source of water supply is ground water (bore wells). PP has submitted that he had obtained permission from CGWA dtd. 18.04.2011 for drawl of the 300 m<sup>3</sup> /day of ground water to meet present requirement of water for the existing unit which is adjoining to the proposed project. For construction purposes for the proposed unit, the demand shall be met from the existing source till the permission is granted by CGWA.
- (viii) The waste water from BRP unit shall be collected in settling pond and recycle in beneficiation process. The quantity of waste water generation will be 623.550 KLD. As in the BRP plant the water is added for removing the impurities from raw mineral and no chemical will be added in the water, therefore, the whole quantity will be reused.

The total industrial effluent will be 30 KLD which is proposed to be treated in Effluent Treatment Plant (ETP) treated effluent and is proposed to be used for

  
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irrigating the plantation within the premises. The domestic waste water (10 KLD) shall be taken to septic tank attached with soak pit.

- (ix) For control of air pollution PP has proposed cyclonic separators, bag filters & four stage ventury scrubbers with efficiency of 99.95% to control fluorine emission and fugitive emissions, personal protective equipments for labours, regular monitoring of emissions and raw material transportation in tarpaulin covered trucks. PP has submitted Unit wise generation of air pollutants, details of air pollution control equipments in each unit and number of stacks and their height is as follows :-

| Name of unit    | Gas Emission | Air Pollution Equipments  | Air emission measuring Equipments | No of stack | Height of stack |
|-----------------|--------------|---|-----------------------------------|-------------|-----------------|
| SSP             | HF, PM       | Four stage scrubbers, each stage containing venture & cyclone and in last stage we making alkyl scrubbering | HF analyzer & SPM                 | 1           | 50 Mtr          |
| Phosphoric Acid | HF, PM       | Four stage scrubbers, each stage containing venture & cyclone and in last stage we making alkyl scrubbering | HF analyzer & SPM                 | 1           | 50 Mtr          |
| TSP             | HF, PM       | Four stage scrubbers, each stage containing venture & cyclone and in last stage we making alkyl scrubbering | HF analyzer & SPM                 | 1           | 50 Mtr          |
| GSSP            | PM           | Four stage scrubbers, each stage containing venture & cyclone and in last stage we making alkyl scrubbering | SPM analyzer                      | 1           | 40 Mtr          |

- (x) Hazardous and Other Solid Wastes generated from the process activities will be partly reused in ancillary activities and the rest including hazardous waste will be sold off to authorized agents. Hydrofluorosilicic acid is proposed to be reused in SSP manufacturing process & for production of SSF. Used oil will be stored and sold off to authorized recyclers. Solid waste like ETP sludge shall utilized in SSP plant and STP sludge will be used as manure in greenbelt development.
- (xi) PP has submitted Traffic management plan for raw material and finished goods.
- (xii) The total power requirement in operation phase is 3000 KWH and DG set back-up 875 KVA. The source of power is MPSEB, Sagar.
- (xiii) PP has proposed plantation in 74000 sqmt. with budgtry provision of Rs. 5.25 lakh. However, as per 206th SEAC meeting an area of 80,000 sq.m. (34.23 % of the total land area) is to be developed as green area.
- (xiv) Under CSR activities PP has proposed maintenance of primary school building in Saurai village & Dilakhedi villages and also provide facilities of internal roads, sanitary facilities, water tanks / hand pumps for drinking purpose after consultation with local Panchayat. PP has also proposed to trained science graduates nearby villages Banda & Sagar to make them skilled for the operation of fertilizer plant and also proposed organized medical checkup camps in Banda

  
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 Member Secretary

Tehsil, Saurai & Dilakhedi villages twice in a year with budgetary provision Rs. 18 Lakh upto 10 years (1.8 crores).

Based on the information submitted at Para i to xiv above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 250<sup>th</sup> meeting held on 14.10.2015 and decided to accept the recommendations of 206<sup>th</sup> SEAC meeting held on dtd 21.07.15.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14<sup>th</sup> September 2006 to the proposed Beneficiation of Rock Phosphate (BRP) & Manufacturing unit of SSP, GSSP, TSP, Synthetic Gypsum, Phosphoric Acid, Sodium Silica Fluoride at Plot no. A-2 Saurai Industrial Area Village- Saurai, Tehsil – Banda Dist. Sagar, MP; Proposed Production Capacity- 1) BRP through put- 99000 MTPA ; 2) SSP-180000 MTPA, 3) GSSP-180000 MTPA, 4) TSP-66000 MTPA, 5) Synthetic Gypsum-165000 MTPA, 6) Phosphoric Acid-19800 MTPA ; 7) Sodium Silica Fluoride-1320 MTPA by M/s Madhya Bharat Agro Products Limited (Unit-III) through Manager Shri Manohar Raghuwanshi, 127, Rachna Nagar, Bhopal (MP)-452001 subject to the compliance of the Standard Conditions enclosed at Annex-I and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

**A. Specific Conditions as recommended by SEIAA**

1. PP should obtain NOC from CGWA before commissioning of the plant.
2. Waste water:
  - (a) PP should ensure to reuse the whole quantity of the waste water generated during process as proposed.
  - (b) Waste water from BRP plant is reused in beneficiation process.
  - (c) Waste water from ventury scrubbers attached in different processing units, equipments cleaning, floor washing etc. should be collected in settling tank and reused.
  - (d) The reclaimed waste water from different units is reused in the process of other products.
  - (e) Proper flooring & dyke wall are provided at storage area.
  - (f) STP is provided for domestic waste water. Treated waste water should be reused for gardening.
  - (g) Storm water drains should be provided to drain the rain water.
3. Management of generated Silica from unit
  - (a) As proposed PP should maintain the zero material balance in the production of all the products.
  - (b) Dedicated storage space should be provided.
  - (c) Regular monitoring of impurities in tailing shall be ensured.
  - (d) Industry shall provide RCC settling tanks with FRP / HDPE lining to avoid any leakages.

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Member Secretary

- (e) Proper flooring and lining will be done to avoid the leaching of H<sub>2</sub>SiF<sub>6</sub> solution into the soil.
  - (f) Appropriate dyke wall will be made.
  - (g) There should be 100% recycling of treated waste water and Industry shall ensure "Zero Liquid Discharge" from the unit.
4. PP should ensure installation of photovoltaic cells (solar energy) for lighting in common areas, LED light fixtures and energy efficient equipments.
  5. Solid /Hazardous waste disposal :
    - (a) Industry shall provide sand bed near the storage area of H<sub>2</sub>So<sub>4</sub> storage tank.
    - (b) To avoid the spillage from processing unit, Industry shall provide fully mechanized filling and packaging operation unit.
    - (c) PP should ensure handling, disposal and management of hazardous waste as per the related prescribed rules.
    - (d) PP should ensure disposal of hazardous waste/ by-products regularly through sale to authorized vendors or in TSDF site and there should be no dumping of these materials in the premises/outside.
    - (e) Solid waste generation from operation of STP should be reused as manure in plantation in premises.
    - (f) PP should obtain NOC /approval from competent authority for health & safety measure, Onsite & Offsite disaster management, Risk management plan and Fire fighting before commencing the operation of the unit.
  6. PP should maintain all the measures regarding air pollution control as proposed.
  7. **Traffic management:**
    - (a) PP should ensure proper vehicular movement from the entry / exit timings of the National Highway norms within the city movement.
    - (b) No idle parking shall be allowed on the National Highway.
    - (c) Within the factory premises, parking for the trucks should be properly earmarked.
  8. Green belt:
    - (a) Green belt comprising of four rows of trees should be developed all around the site with noise absorbing trees.
    - (b) PP should ensure plantation in 80000 sqmt. area (34.23%) of the total land area and accordingly the budget provision should be increased. The plant species should be selected as per the CPCB guidelines.
    - (c) PP should also plant *Gladious* as indicator species for fluorine emissions in ambient air.
  9. Roof water recharging should be avoided as it can pollute the ground water.



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Member Secretary

10. PP should ensure the implementation of CSR activities to the extent of Rs. 18 lacs per annum on regular basis in consultation with the Gram Panchayat of the respective villages.

**B. Specific Conditions as recommended by SEAC**

11. All tailing collection ponds shall have HDPE lining with appropriate peizometerc holes & leachate collection arrangements. All the components of this system should be well within approach for smooth monitoring.
12. Alkali scrubbing shall be carried out for scrubbing the fluorine.
13. Continuous Emission Monitoring System shall be installed with inter-locking system such that in case of any failure when emissions are beyond the threshold limits the complete operation of the plant trips down automatically.
14. 'Zero liquid discharge' condition shall be maintained.
15. Explore the possibility to reduce the curing period through temperature & moisture control.
16. Boilers shall be fitted with bag-filters and other effective APC system in view of the proposed fuel (bio-fuel).

**Standard Conditions - Encl: Annex-I**

  
(Ajatshatru Shrivastava)  
Member Secretary

7306  
Endt No. / SEIAA/ 15 Dated 6.11.15  
Copy to:-

- (1). Principal Secretary, Urban Development & Environment Deptt. 3<sup>rd</sup> Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, Distt- Sagar -M.P.
- (5). Managing Director, M P Audyogik Kendra Vikas Nigam (Gwalior) Ltd 52, Ravi Nagar, Gwalior - 474002.
- (6). Director, I.A. Division, Monitoring Cell, MoEF, Gol, Ministry of Environment & Forest 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). Guard file.

**Encl: Standard Conditions (Annex-I)**

  
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Member Secretary

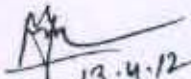
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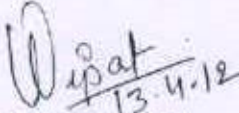
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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

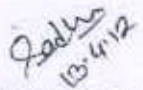
Annex-1

## Standard Conditions related to Activity 5 (a) - Chemical Fertilisers of Manufacturing / Fabrication of Category B projects under the Schedule of Ministry of Environment and Forests, GoI 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 fluoride emission shall not be more than 25 mg/Nm<sup>3</sup> emanating from the scrubbing system.
6. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of raw material and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. No overloading of raw material for transportation shall be committed.
7. Periodic monitoring shall be carried out as per norms for RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>, monitoring and fluoride. 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 M. P. Pollution Control Board. The monitored data for criteria pollutants shall be regularly uploaded on the company's website and displayed.
8. Data on ambient air quality (RSPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>) should be regularly submitted to the Regional office of the Ministry of Environment and Forest, Bhopal and the M.P. Pollution Control Board / Central Pollution Control Board once in six months.
9. The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water.
10. Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers shall be provided with ear plugs / muffs.
11. Personnel 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.
12. 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.

  
(Dr R P Singh)  
Officer-in-Charge

  
(Dr Vinita Vipat)  
Officer-in-Charge


  
(Dr Sadhna Tiwari)  
Officer-in-Charge

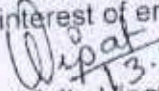
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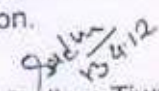
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Research and Development Wing, Madhya Pradesh Pollution Control Board,  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

13. 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 the Regional office of the Ministry of Environment and Forest, Bhopal and MP PCB.
14. 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 and other documents information should be given to Regional Office of the MoEF, Gol at Bhopal and MP PCB.
15. 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.
16. 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.
17. The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.
18. 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 and MP PCB.
19. Project Proponent shall explore the possibility of using solar energy where ever possible.
20. The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
21. 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.
22. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation, if any, shall be submitted to the Regional office of the MoEF, Bhopal and MPPCB to the competent authority of the State Govt. within six months.
23. 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.
24. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

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

  
(Dr Vinita Vipat)  
Officer-in-Charge

  
(Dr Sadhna Tiwari)  
Officer-in-Charge


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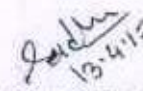
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25. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
26. 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.
27. The prior Environmental Clearance granted for the project is valid for a period of five years as per EIA notification dtd. 14.09.2006.
28. 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.
29. 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.
30. 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.

  
(Dr R P Singh) 13.4.12  
Officer-in-Charge

  
(Dr Vinita Vipat) 13.4.12  
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(Dr Sadhna Tiwari) 13.4.12  
Officer-in-Charge

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