



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

**Environmental Planning & Coordination Organization**

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No: 2827 / SEIAA /19  
Date: 26.3.19

To,

M/s Savitri Minerals,  
House No. 241/1, Saket Nagar,  
District -Jabalpur - 482002 (MP).

**Sub: Case No.- 5311/2016** Prior Environmental Clearance for Bauxite, Laterite & Fire Clay Mine (Open cast semi mechanized method) in an area of 8.094 ha. for expansion of production capacity from 5,500 TPA to 1,00,000 TPA at khasra no. 402(P)New – 144/2 (Old) at Village-Tikariya , Tehsil - Mudwara, Dist. Katni by M/s Savitri Minerals, House No. 241/1, Saket Nagar, Jabalpur - 482002 (MP).

- I. This has reference to your letter received in SEIAA office on 27.07.2016 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 Bauxite, Laterite & Fire Clay Mine in an area of 8.094 ha. The mining lease area is located at khasra no. 402(P) New – 144/2 (Old) at Village-Tikariya , Tehsil - Mudwara, Dist. Katni . The nearest town katni is located at the distance of 12.0 km in S direction. There is no National Park/Sanctuary within 10 Km radius. There is no forest boundary within 250m from mining site.
- III. The proposed expansion of production capacity from 5,500 TPA to 1,00,000 TPA. Earlier prior Environmental Clearance was granted by MPSEIAA in Case No. (54/2008) vide Letter No. 1217/EPKO-SEIAA/12, dated 05/03/2012 for production capacity of 5,500 TPA
- IV. PP has now applied for Prior Environmental Clearance for expansion of production capacity from 5,500 TPA to 100,000 TPA .The mining will be carried out by Open cast semi mechanized method. The water requirement is 20 KLD. The water met from Mine sump, Hand Pump & Bore well will be used for domestic purpose, dust suppression and green belt development. PP has proposed that 8094 sapling [6690 sapling of tree species covering an area of 66900 sqm (backfilled area ) + 1194 sapling in an area of 11940 sqm will be planted in green belt area ]shall be covered under plantation. The public hearing was conducted at village Tikariya on 17.05.2017 at Mine Parisar.

- V. 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 September 2006 and its amendments.
- VI. 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 524<sup>th</sup> meeting dtd. 26.02.2019 and decided to accept the recommendations of 341<sup>st</sup> SEAC meeting dtd 31.01.2019.

**Hence, Prior Environmental Clearance is granted for Bauxite, Laterite & Fire Clay Mine (Open cast semi mechanized method) in an area of 8.094 ha. for expansion of production capacity from 5,500 TPA to 100,000 TPA at khasra no. 402(P)New – 144/2 (Old) at Village-Tikariya , Tehsil - Mudwara, Dist. Katni for the lease period to M/s Savitri Minerals, House No. 241/1, Saket Nagar, Jabalpur - 482002 (MP)., subject to the following specific conditions as recommended by SEIAA & SEAC and subsequent Standard Conditions.**

### **A. SPECIFIC CONDITIONS**

1. 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.
2. Plantation programme as mentioned in EIA/EMP and presented during presentation in SEIAA & SEAC shall be followed in content and spirit.
3. PP shall demarcate a barrier zone of 7.5 m as no mining zone in the periphery of mining lease area and develop a green belt. Three row plantations shall be carried out in the greenbelt area in current year with proper watering arrangement.
4. The mining operation shall be restricted to above ground water table and in no case it should intersect the ground water table. In case of working below the ground water table approval of the Central Ground Water Board shall be obtained.
5. Before commencing the mining activity, site demarcation should be done leaving 100 m. from the habitation as a "no mining zone" and it will be maintained as buffer zone. The demarcation should be done by the Revenue Officials in the presence of Mining Officer, Katni
6. PP shall ensure to plant total 8094 saplings. PP will plant 3 years old 700 trees samplings of suitable indigenous fast grow tree species (neem, amla, peepal, drumstick etc.) in barrier zone/no mining zone along the transportation route initially in current year. Plantation programme as mentioned in EIA/EMP and presented during presentation in SEIAA & SEAC shall be followed in content and spirit.
7. PP shall ensure to construct (0.6 km) and maintain Pakka approach road from the mine site. Plantation will be carried out on both side of the approach road. PP shall also ensure maintenance of existing pakka road in consultation with competent authority.
8. The Chain-link fencing shall be done all around the boundary of ML area.
9. The over burden and waste will be stacked for five years and then simultaneously backfilled in the mined out area where plantation will be raised on it.

10. Regular air & water quality monitoring shall be carried out by PP before discharging it into the nearby agriculture fields from authorized laboratory in consultation with Regional Officer, MPPCB.
11. PP shall ensure generation of employment opportunities nearby Village on priority bases.
12. Payments of wages to the workers shall be done in consonance with the provisions in the labour laws.
13. Proper infrastructure with shelter, drinking water, toilet and first-aid facilities shall be provided for the laborers. A provision should be made to construct a pakka rest shelter along with toilet and drinking water facility.
14. PP should also carry out regular sprinkling in the mining lease area to arrest dust emission from mining activities affecting the nearby agriculture fields
15. Mining shall be limited to the area as shown in surface plan and as per the approved mining scheme.
16. PP shall ensure the proper water supply arrangements for plantation especially in summer season.
17. PP shall ensure proper implementation of plantation, dust suppression, construction of approach road and maintenance of existing pakka road as part of Environmental Management Plan. Additional budget provision shall be made as part of EMP.
18. PP must ensure implementation of the following activities with separate budget provision of Rs.6.0 lakhs under CSR
  - a) Health awareness & for local community in village Tikariya, Tokhla & Bharoli.
  - b) Drinking water during summer season in village Tikariya, Pahari.
  - c) Deepening and cleaning of pond in village Tikariya.
  - d) Providing aid for cow shed in nearby village Tikariya, Tokhla & Bharoli.
  - e) Provide training centers for skill building & vocational trainings to school/collage dropouts or unemployed people under skill India Initiative in village Tikariya.

**All the modification to the above activities can be made with the permission of the district administration and need based activity for the development of nearby villages shall be implemented by PP in consultation with the District Collector and Grampanchayat.**

19. PP should ensure to submit half yearly compliance report and CSR activity report with photographs of plantation in MP-SEIAA

## **B. PRE-MINING PHASE**

20. The lease boundary should be clearly demarcated at site with the given coordinates by pillars.
21. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
22. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.

23. PP will also carry out fencing all around the lease area.
24. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
25. For dust suppression, regular sprinkling of water should be undertaken.
26. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
27. PP will obtain other necessary clearances/NOC from respective authorities.

### C. MINING OPERATIONAL PHASE

28. During blasting the dia of hole be equal to or less than 33 mm and depth 0.8 meter and charge per hole will be not more than 250 gm.
29. No external dumping is allowed.
30. No explosive shall be stored at mine site.
31. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. 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) to provide additional protection in one year only.
32. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 8094 nos of trees will be planted on approach roads and in lease boundary.
33. Transportation of material shall be done in covered vehicles.
34. Transportation of minerals shall not be carried out through forest area.
35. The OB as over burden shall be reutilized for backfilling. PP shall bound to compliance the final closure plan as approved by the IBM.
36. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. The size of the Garland drain will be 1100m x 2m x 1.5m. The settling tank will be two in number of size 20 X 6.0 X 3.0 = 720 CUM shall be provided for proper sedimentation.
37. No mine water shall be discharged outside of the lease and zero liquid discharge shall be maintained.
38. Transportation road shall be made pucca.
39. For dust suppression over head Sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
40. 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.
41. The existing and proposed land use plan of the mine is as follows:

42. Land use of mine lease area for pre-operational, operational and post operational phase of the mine is as follows :

Sl. No.	Particular	Existing (ha)	5 <sup>th</sup> Year End (ha)	Mine Life End (ha)
1	Total area excavated (broken)	3.0	4.30	(6.90)
2	Area fully mined out (out of 1)	0.21	2.0	(6.90)
3	Area fully reclaimed (Backfilled out of 2)	0	1.25	(6.90)
4	Area rehabilitated out of 3 by afforestation	0	0.5	6.90
5	Area under mineral stack	0.3	0.3	
6	Area under Road	0.10	0.10	-
7	Area under Green belt	0.10	0.50	1.194
8	Area under infrastructure	-	0.10	-
9	Undisturbed	4.384	2.794	-
	<b>Total</b>	<b>8.094</b>	<b>8.094</b>	<b>8.094</b>

43. 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.

44. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.

45. The commitments made in the public hearing are to be fulfilled by the PP.

46. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

47. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

48. The solar power will be used at the mine office for illumination.

#### D. ENTIRE LIFE OF THE PROJECT

49. The EMP cost is Rs. 16.50 lakh and Rs. 10.0 lakh /year are as capital and recurring expenses respectively. Out of which Rs. 3.5 lakh is proposed for plantation.

50. Under CSR activity, Rs. 6.0 lakh /year proposed in nearby village Tikariya, Tokhla & Bharoli respectively in different activities and should be implemented through respective committees.

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.

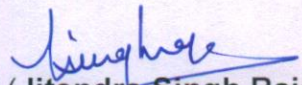
22. Data on ambient air quality (RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>) should be regularly submitted to the Regional office, MoEF, Gol, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
23. Ambient air quality at the boundary of the mine premises shall 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, Gol, 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, Gol, 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, Gol, 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, Gol, 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, 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.
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, Gol, Bhopal and MP PCB.
37. 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.
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](http://www.mpseiaa.nic.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
40. The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, 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, Gol, 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, 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.
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

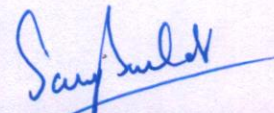
2828  
Endt No. / SEIAA/19 Dated: 26.3.19  
Copy to:-

  
(Jitendra Singh Raje)  
Member Secretary

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.



2. 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 Katni, M. P.
5. Divisional Forest Officer, District Katni, 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 Katni, M. P.
10. DEO, SEIAA – for upload on website.
11. Guard file



(Dr Sanjeev Sachdev)  
Officer-in-Charge

9/c