

The 38<sup>th</sup> meeting of the Second State Expert Appraisal Committee (SEAC-II) for mining projects was held on 13<sup>th</sup> July, 2016 under the Chairmanship of Dr. Navin Chandra for discussion on the query responses submitted by the PP and the projects issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram khan, Member.
2. Shri. Mohd. Kasam khan, Member.
3. Shri. Prashant Shrivastava, Member.
4. Shri. Rajendra Kumar Sharma, Member.
5. Dr. Sonal Mehta, Member

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

**1. Case No.5214/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for River sand mine in an area of 7.40 ha. (2808 cum/year) at Khasra no .-01, Village-Takwasa, Tehsil - Ujjain, Dist.Ujjain (MP)**

This is case of River sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasara no.-01, Village-Takwasa, Tehsil - Ujjain, Dist.Ujjain (MP) 7.40 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 3216 dated: 10/12/15, has reported that there is no more mine operating or proposed within 1000 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed as per the Google image of April, 2016 that in the southern side of the reiver in lease area trees are in existence, thus PP was asked that no evacuation of sand should be done from this area. It was also observed from the same Google image that most part of the lease area is submerged in the water and since mid-stream mining is not allowed, mining from submerged area can not be permitted. PP submitted that sand is available in patched and the desired volume of sand

can be evacuated. Thus committee after deliberations asked PP to submit following informations:

1. Revised production plan showing the available sand area.
2. PP written commitment that no sand will be evacuated from the area where trees are in existence.

**2. Case No.5215/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for River sand mine in an area of 9.710 ha. (2955 cum/year) at Khasra no .-189, 190, Village-Sewarkhedi, Tehsil - Ujjain, Dist.Ujjain (MP)**

This is case of River Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra no.-189, 190, Village-Sewarkhedi, Tehsil - Ujjain, Dist.Ujjain (MP) 9.710 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 876 dated: 11/05/16, has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 16.68 ha including this mine.

The case was presented by the PP and their consultant wherein the submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 2,955 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 50 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.

- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

**3. Case No.5216/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for River sand mine in an area of 6.970 ha. (2091 cum/year) at Khasra no .-508, 630, 489, Village-Alampur Udana, Tehsil - Ujjain, Dist-Ujjain (MP)**

This is case of River sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-508, 630, 489, Village-Alampur Udana, Tehsil - Ujjain, Dist-Ujjain (MP) 6.970 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 3214, dated: 10/12/15 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 16.68 ha including this mine.

The case was presented by the PP and their consultant wherein it was observed as per the Google image of November, 2015 that a stop dam is in exiatance at approx. 80 meters away from the QL area, thus committee decided that 20 meters area be left in the QL from the dam side. It was also observed from the same Google image that most part of the lease area is submerged in the water and since mid-stream mining is not allowed, mining from submerged area can not be permitted. PP submitted that sand is available in patched and the desired volume of sand can be evacuated. Thus committee after deliberations asked PP to submit following informations:

1. Revised production plan showing the available sand area.

**4. Case No.5217/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for**

**River sand mine in an area of 7.880 ha. (2364 cum/year) at Khasra no .-1, 3, 11, 12, 13, 15, 41 54, Village-Piplyaragho, Tehsil - Ujjain, Dist.Ujjain (MP)**

This is case of River sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1, 3, 11, 12, 13, 15, 41 54, Village-Piplyaragho, Tehsil - Ujjain, Dist.Ujjain (MP) 7.880 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 3215 dated: 10/12/15 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed as per the Google image of December, 2015 that a bridge is in exiatance in the southern side at approx. 90 meters away from the QL area, thus committee decided that 10 meters area be left in the QL from the bridge side. It was also observed from the same Google image that most part of the lease area is submerged in the water and the area shown for the excavation of sand as per approved mine plan is submerged in water and sand evacuation from this part of the QL is not possible. However, at the meandering side of river sand is available but this portion of QL is not approved for sand evacuation as per approved mine plan. Committee after deliberations decided that PP may be asked to submit the revised production plan duly approved by the competent authority for further consideration of the project.

**5. Case No.5218/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for River sand mine in an area of 7.910 ha. (2375 cum/year) at Khasra no .-1, 513, Village-Ninora-1, Tehsil - Ujjain, Dist.Ujjain (MP)**

This is case of River sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1, 513, Village-Ninora-1, Tehsil - Ujjain, Dist.Ujjain (MP) 7.910 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 3217, dated: 10/12/15 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of -16.48 ha including this mine.

The case was presented by the PP and their consultant wherein it was observed as per the Google image of December, 2015 that most part of the lease area is submerged in the water and since mid-stream mining is not allowed, mining from submerged area can not be permitted. PP submitted that sand is available in patched and the desired volume of sand can be evacuated. Thus committee after deliberations asked PP to submit following informations:

1. Revised production plan showing the available sand area alongwith photographs of the site.

**6. Case No.5220/15 Shri Omprakash Jat S/o Radhakrishan Jat, Proprietor, Village - Panthpiplai, Tehsil - Ujjain, Distt Ujjain – 457779 Prior Environment Clearance for River sand mine in an area of 8.570 ha. (2571 cum/year) at Khasra no .-347, Village-Ninora-2, Tehsil - Ujjain, Dist.Ujjain (MP)**

This is case of River sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-347, Village-Ninora-2, Tehsil - Ujjain, Dist.Ujjain (MP) 8.570 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.- 874, dated: 11/05/16, has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 16.48 ha including this mine.

The case was presented by the PP and their consultant wherein the submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure ‘B’:

- Production of Sand as per mine plan with quantity not exceeding 2,571 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 50 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

**7. Case No.-5266/2016 Shree Banshiwale Stone Crusher, Gwalior, M.P – 474001. Prior Environment Clearance for Metal Stone Deposit in an area of 32.280 ha. (433403 cum/year) at Khasra no.-865, Village-Gundhara, Tehsil - Gwalior, Dist. Gwalior (MP)**

This is case of Metal Stone Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-865, Village-Gundhara, Tehsil - Gwalior, Dist. Gwalior (MP) 32.280 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.---, dated: --, has reported that there is -- more mine operating or proposed within 500 meters around the said mine with total area of --- ha including this mine.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**8. Case No.-5265/2016 Imtiyaz Khangarhi Dadar Bauxite Mine, Anuppur, M.P – 462001 Prior Environment Clearance for Garhi Dadar Bauxite Mine in an area of 4.90 ha. (50000 MTPA ha) at Khasra no.-24/2, 24/3, Village-Garhi Dadar, Tehsil - Pusprajgarh, Dist. Anuppur (MP)**

This is case of Garhi Dadar Bauxite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-24/2, 24/3, Village-Garhi Dadar, Tehsil - Pusprajgarh, Dist. Anuppur (MP) 4.90 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant. It being a case of major minerals committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs:-

1. Compliance of consent conditions of the MP Pollution Control Board should be obtained from concerned Regional Officer.
2. Top soil management plan be discussed in the EIA report.
3. Analysis of Lateritic Soil should be carried out and submitted with EIA report.
4. Analysis of gallium should be carried out and submitted with EIA report.
5. Inventory of operating / proposed mines within 2 Km around the said mine should be provided in the EIA report.
6. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
7. Any alternate route avoiding the nearby habitations (if any).

**9. Case no.-1841/2014 Shri Mukund Jaiswal, Kolgawan, Post-Satna (MP)-485001. Prior Environment Clearance for approval of proposed Limestone Deposit Mine in an area of 29.951 ha. for Production Capacity-5,00,000 TPA (3,50,000 TPA of Limestone & 1,50,000 TPA of Reject stone) at Khasra nos.-95/1, 95/2, 96/1, 96/2, 96/3, 96/4, 100/1, 100/2, 102, 103, 104, 105, 107, 108, 109, 113/1, 113/2, 113/854/1 & 113/854/2, Village-Birahuli, Tehsil-Raghuraj Nagar, District-Satna (MP) EIA Presentation Consultant: Greencindia Pvt. Ltd,**

This is case of Limestone Deposit Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra nos.-95/1, 95/2, 96/1, 96/2, 96/3, 96/4, 100/1, 100/2, 102, 103, 104, 105, 107, 108, 109, 113/1, 113/2, 113/854/1 & 113/854/2, Village-Birahuli, Tehsil-Raghuraj Nagar, District-Satna (MP) 29.951 Ha. The project requires prior EC before commencement of any activity at site.

This is a mining project proposed in a lease area of 29.951 ha with production capacity of 5,00,000 TPA ( 3,50,000 TPA of Limestone & 1,50,000 of Reject stone). The project is covered as item 1(a) in the schedule of the EIA Notification hence requires prior EC from SEIAA. The application for the same has been forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP. Salient features of the project and the proposed TOR were presented by the PP and his consultant before the SEAC. The presentation and the submissions made by the PP reveals following:

- The lease area was sanctioned under prospecting license by the State Government of M.P. vide their letter no.-2-146/2008/12/2 Bhopal dated-30.07.2009 for the duration of 1 year.
- After prospecting operation, Shri Mukund Jaiswal applied for mine lease on 29-07-2010.
- A communication letter of precise area was issued by the State Govt.vide letter No.-F-3-4/2012/12-1, Bhopal, Dated-31.07.2013 for grant of ML.
- The mine plan has approved by Indian Bureau of Mines, Jabalpur vide letter no-MP/SATNA/LIMESTONE/MPLN/G-08/13-14/3741 dated 09.07.2014.
- The project is an open cast fully mechanized mine. All operations of mining will be done by deployment of HEMM. The total mining lease area is 29.951 Ha.
- Proposed Capacity of the project is 5.0 lac TPA (Limestone 3.50 Lac TPA + Reject Stone 1.50 lac TPA)
- The mineral Limestone will be used in nearby cement plants and Reject Stone as building material or road metal.

**Salient features of the project:**

Description	Details
Project Location	Birahuli Village, Raghuraj Nagar Tehsil, Satna District, Madhya Pradesh
Total Area	29.951 Ha
Proposed capacity	<b>500000 TPA</b> 350000 TPA of limestone 150000 TPA of rejected stone
Technology	Fully mechanized
Life of the mine	20 years



Seismic Zone	Zone-II as per IS: 1893 (Part-1) 2002
Topo-sheet No	63 D/14
Project cost	3 Crores
Villages	Birahuli
Tehsil	Raghuraj Nagar
District	Satna
State	Madhya Pradesh
Nearest town	Satna About 5 Km
Nearest railway station	Satna Railway Station, 9 km
Nearest Airport	Rewa Airport, About 35 km
Nearest road	Satna-Birsinghpur road, 50 m

<b>Latitude</b>	<b>Latitude</b>
24 <sup>0</sup> 37'18.2" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'14.8" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'06.9" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'00.6" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 36'48.8" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 36'51.9" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 36'57.9" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'09.7" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'10.9" N	80 <sup>0</sup> 54'24.1" E
24 <sup>0</sup> 37'15.0" N	80 <sup>0</sup> 54'24.1" E
Elevation 314.01 m to 315.55 m	
Slope Towards North	
Nearest RF	2.0 km, SE
Tons/Tamsa River	4.8 km, S

Birla Cement Plant	4.5 km, SW
Satna	4 km, SW
Kamal Steel Plant	7 km, W
Satna-Birsinghpur road	Adjacent
NH-75	5.6 km, S
Revati Cements	8 km, NW
Simrawal Nadi	8.5 km, NE
Rani Talav	7 km, SSE
Maitri Bagh Lake	7.5 km, SW

The case was scheduled in the 154 SEAC meeting dated 10/11/2014 wherein after deliberations following additional TORs' have been prescribed for inclusion in the EIA report:

- Air quality modeling for point as well as line source to be depicted and presented considering the adjoining Cement Plants, mines and the sensitive receptors.
- EMP based on above to be incorporated.
- Micro-level survey of the features existing within 2 Km radius around the project boundary to be depicted on the map and presented with the EIA.
- Map depicting the locations of all the operational / exhausted / proposed mines in the region to be furnished and discussed.
- Top-soil Management Plan to be submitted.
- OB-management Plan with spatial depictions to be furnished.
- Public Hearing has to be carried out disclosing all the facts on process, possible disasters with proposed mitigations, expected air/water pollution from the project and the mitigations proposed thereby. All details of the proposed land (present land-use, ownership status diversion (if any) permissions etc. have to be disclosed before the public.

The case was presented by the PP and their consultant wherein it was observed that the proposed site is 20 meters away from the puvva road thus committee asked PP to lease 30 meters area as setback in th ML area excluding 7.5 meter bufferzone. PP submitted that this area is alsredy demarkeated as green area in the proposed plan. The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee

decided to recommend the case for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
4. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.
6. Pucca Road is about 20 meters away from the ML area thus a setback of 30 meters be left from the ML area excluding the 7.5 meters mandatory buffer zone.
7. Production of Lime stone & Reject stone shall be as per the mining plan not exceeding 5,00,000 TPA (3,50,000 TPA Limestone and 1,50,000 TPA Reject Stone).
8. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
9. All the commitments made in the public hearing are to be fulfilled by the PP.
10. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
11. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
12. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: 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.

**10. Case No.5202/15 Shri Rohit Kumar Pateriya, M/s Hemant Construction and Suppliers, Lessee, Indraprastha Garden District. Chhatarpur (M.P.) – 471001 Prior Environment Clearance for Stone & Murram Quarry in an area of 7.00 ha. (31636 cum/year) (stone – 28928 cum/year, Murram – 2708 cum/year) at Khasra no.-1285, Village-Mamaun, Tehsil-Bijawar, District-Chhatarpur (MP)**

This is a case of mining of Stone & Murram Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra at Khasra no.-1285, Village-Mamaun, Tehsil-Bijawar, District-Chhatarpur (MP) 7.00. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 341 dated: 09/3/16, has reported that there are 02 more mines operating or proposed within 500 meters around the said mine and Total Area 11.00 ha including this mine.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**11. Case No.5204/15 Smt. Hemlata Pathak, Owner, Jawahar Road, Dist. Chhatarpur, M.P – 471001 Prior Environment Clearance for Crusher Stone Quarry Deposit in an area of 13.0 ha. (10000 cum/year) at Khasra no.-350/1, Village-Bedar, Tehsil-Maharajpur, District-Chhatarpur (MP)**

This is case of Crusher Stone mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-350/1, Village-Bedar, Tehsil-Maharajpur, District-Chhatarpur (MP) 13.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 1542 dated: 05/12/2015 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 17.023 ha including this mine.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**12.Case No. – 1856/2014 Shri Naresh Chandra Desai, Sr. Dy. GM (Geology), The Madhya Pradesh State Mining Corporation Ltd., Paryawas Bhawan, Block No. 1, Second Floor (A), Jail Road, Bhopal (MP)-462011.Prior Environment Clearance for approval of proposed Mardeora Rock Phosphate Mines in an area of 48.758 ha. capacity 1,54, 945 MT/year at Khasra no.-125/1, 917, 953/1, Village-Mardeora, Tehsil-Baxwaha, District-Chhatarpur (MP). EIA Presentation Consultant: CSE, Bhopal**

This is case of Mardeora Rock Phosphate Mines. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-125/1, 917, 953/1, Village-Mardeora, Tehsil-Baxwaha, District-Chhatarpur (MP) 48.758 Ha. The project requires prior EC before commencement of any activity at site.

**Environment setting**

Particulars	Details
Locations	
Village	Mardeora
Tehsil	Baxwaha
District	Chhatarpur
State	MP
Nearest National/state Highway	Village Road – 90m – NE NH- 86 – 1.50km - SE
Nearest Railway Station	Tikamgarh – 55.0km
Nearest Airport	Khajuraho - 120.0km
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None in 10 km radius

Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Indora RF - NE – 5.0km, Tigoda RF -E-1.0km, Hirapur RF - SE-1.5km, Shahgarh RF- SW- 6.25km
Nearest major city with 100000 population	None in 10 km radius
Nearest village	Mardeora – 0.70km - S Semardahar - 0.70km- W
Nearest Town	Shahgarh – 7.0km
Physiography	Hilly and Undulated terrain
Elevation	408 – 384mRL
Slope	North west
Nearest River	Bila River -4.0km - W Lanch Nadi -3.0km -W Kalidhar Nadi -4.5km –E Sukh Nadi -7.0km -SE
Nearest nalla/pond/canal	Ratua Nalla- E-1.5km Chandaiya Main Canal-SW-2.0km Local Pond-S-2.0km Local Nalla – W- 0.10 km
Nearest Hill Ranges	None within 10km radius
Other lease area within 2.0km radius	1. Tigora Rock phosphate mine of M/s MP State Mining Corporation, 2. Tigora iron ore & Dolomite mine of M/s Vandna Modi, 3. Tiogra Iron ore & Dolomite mine of M/s Meena Modi,, 4. Mardeora Soap stone mine of Vishnu Prasad Luhariya
Industry	None within 10km radius
Crusher within 2.0km radius	02 no.

It was reported by the PP that

- The fresh lease was granted for period of 20 years from 1997 to 2017.
- The lease area comes under govt. waste land

- One other lease area are located within 500m radius
- The PP has already been obtained environmental clearance from SEIAA vide letter no. 465/EPCO-SEIAA/12 dated – 30.06.2012 for existing capacity. Present proposal for capacity expansion from 26300 TPA to 155000TPA
- The PP has already been obtained CTO from MPPCB which is valid up to 14.03.2017
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur
- Copy of Certified compliance report of previous EC from MoEF&CC has been submitted

### Sailent feature of the lease area

Particulars	Details
Type of Mine	Opencast, OTFM
Mining Lease Area	48.758ha
Mineable Area	17.278ha
Existing Pits	5.762ha
Existing dump	0.78ha
Existing sub-grade dump	2.5404ha
Infrastructure and road	1.10ha
Plantation	1.75ha
Geological reserves	2204764 MT
Recoverable Reserve	1739174 MT
Existing depth of mining	11m bgl (373mRL)
Ultimate Depth of Mining	14m bgl (370mRL)
Existing capacity per annum	26300 MT
Proposed capacity per annum	155000 MT
Expected Life of Mines	13 years
Thickness of overburden	
Minimum	0.0 m
Maximum	3.0 m
Proposed mode to transportation of mineral	Road
Area to be covered under dumps by conceptual period end	5.90ha
Area to be covered under open pit by conceptual period end	17.2780 ha
Area to be reclaimed by conceptual period end	Nil
Area to be converted as water body	17.2780ha
Area to be covered under plantation	17.40 ha
Elevation	408-384mRL
Ground water table	

Monsoon period	12-14m bgl (372-370mRL)
Dry month	18-20m bgl (366-364mRL)
Production per day in t and dumper per day (24 MT)	517 MT & 22 dumper
End user of mineral	Fertilizer industries
Supply location	Banda, Meghnagar, Diwanganj, and other places

### Details of existing pits

Pit No.	Broken Area in Ha	Surface RL in m.	Pit Bottom RL in m.	Benches in m.				
				Type	Bench No.	Av. Ht. in m.	Av. Width in m.	Overall Slope (in 0°)
1	0.116	392	383	Waste / Mineral	1	9	18	80
2	2.212	397	373	Waste / Mineral	3	8	8	48
3	1.400	400	388	Waste / Mineral	3	4	10	48
4	0.042	400	394	Waste / Mineral	1	6	6	80
5	0.012	395	392	Waste / Mineral	1	3	4	80
6	1.480	392	378	Waste / Mineral	4	3	6	45
7	0.500	398	390	Waste Mineral	2	4	20	20
Total	5.762							

### Existing and proposed land use plan

Items	Existing	End of SOM period	End of mine life
<b>Total lease area</b>	<b>48.758 ha</b>		
Total Mineable area	17.278ha		
Ultimate depth	11m (373AMSL)	12m (372AMSL)	14m (370AMSL)
Ultimate pit slope	20-80 degree	20-80 degree	45 degree
Area under dumps	0.78 ha	2.10 ha	5.90ha
Area under pits	5.762 ha	8.077 ha	17.278 ha
Infrastructure	0.019ha	0.019ha	0.019ha



Mineral storage	Nil	Nil	Nil
Plantation (other than dumps)	1.75ha	3.25ha	10.138ha
Road	1.0ha	1.0ha	1.0ha
<b>Total</b>	<b>9.3110ha</b>	<b>14.4460ha</b>	<b>34.335ha</b>
Undisturbed area	39.4470ha	34.3120ha	14.423
Water Body	2.0 ha	5.0 ha	17.278ha
Area to be reclaimed	Nil	Nil	Nil

The case was presented by the PP and their consultant wherein it was observed by the committee that MoEF&CC has issued the compliance report of the previous EC conditions issued vide letter no. 465 dated 11/05/2016 and as per the compliance report, the compliance status is satisfactory. The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
4. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.
6. Pucca Road is about 20 meters away from the ML area thus a setback of 30 meters be left from the ML area excluding the 7.5 meters mandatory buffer zone.
7. Production of Rock Phosphate shall be as per the mining plan not exceeding 1,54,945 MT/Year.
8. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
9. All the commitments made in the public hearing are to be fulfilled by the PP.
10. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
11. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
12. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: 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.

**13. Case No. 1738/2013 Shri Raghvendra Agrawal, 47, Prabhat Vihar Colony, P.O. & Distt. – Satna (M.P.) Environment Clearance for Ramasthan Limestone Mine in an area of 7.28 ha at Khasra no.-980, 981, Vill.-Ramasthan, Th.-Raghuraj Nagar, District-Satna, (M.P.)-483501 (EIA Presentation)**

This is case of Ramasthan Limestone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra no.-980, 981, Vill.-Ramasthan, Th.-Raghuraj Nagar, District-Satna, (M.P.) 7.28 ha. The project requires prior EC before commencement of any activity at site.

The Proposed project is for mining of Limestone by open cast other than fully mechanized method. The proposed mine lease area is located in village- Ramasthan, Tehsil-Raghuraj Nagar, District-Satna, Madhya Pradesh. The lease area is 7.28 ha of government waste land. 1,00,000 TPA of Limestone and 25,000 TPA of Reject Stone will be produce per annum after the mine will be fully developed. First mine lease was granted to Mr.Mukhtar Ahmad Siddiqui in 31.01.1974 for the 20 years. The lease was transferred to Shri Raghvendra Kumar Agrawal, vide state govt order No. – 3-218/93/12/2/3 Bhopal Dated 25.01.1994. The first renewal was granted for 20 years period vide order no. – F 3-6/94/12/2 Bhopal dated 01.03.2002. The renewal agreement was executed on 22.03.2003 for a period of 20 year w.e.f. 31.01.1994 to 30.01.2014. The ML period has been extended upto 30.01.2024 as per MMDR Amendment Act 2015. The Mine Plan for the project approved by Indian Bureau of Mines, Jabalpur vide letter no MP/SATNA/LIMESTONE/MPLN/R.11/2013-14/2667 dated 05/05/2014. The geographical coordinates of the mining lease area is;

Point	Latitude	Longitude
A	24°37'29.4" N	80°57'16.0" E
B	24°37'30.2" N	80°57'22.9" E
C	24°37'29.0" N	80°57'23.3" E
D	24°37'29.5" N	80°57'30.3" E
E	24°37'35.2" N	80°57'30.1" E

F	24°37'36.1" N	80°57'23.1" E
G	24°37'37.0" N	80°57'15.9" E

- ❑ The nearest railway station is at Satna, which is 13 km away from the site in south west direction. The site is 4 km away from Satna Birsinghpur road in west direction. The nearest town is Satna at a distance of 13 km.
- ❑ Total mineral reserve of Limestone is 13,37,591 Tonnes. Life of the mine is 15 years. Ultimate depth of the mine is 16m bgl and water table of the area varies from 35m to 40m bgl.
- ❑ Muffle blasting will be carried out. Conceptual land uses at different stage are given below:

S.No.	Area	Existing	5th Year end	Mine Life End
1	Total area excavated (broken)	1.10	3.625	5.83
2	Area fully mined out (out of 1)	Nil	0.50	5.83
3	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	0.96
4	Area rehabilitated out of 3 by afforestation	Nil	Nil	0.96
5	Area rehabilitated by water harvesting	Nil	Nil	4.87
6	Total area under dumps	0.50	0.50	Nil
7	Area under active dumps	Nil	0.50	Nil
8	Area under mineral stack	Nil	0.25	Nil
9	Area under Road	0.10	0.10	Nil
10	Plantation on Protective Bund	Nil	1.45	1.45
11	Area under infrastructure	Nil	0.10	Nil

S.No.	Area	Existing	5th Year end	Mine Life End
12	Garland Drain & Bund	Nil	0.10	Nil

- It is proposed that 2000 plant will be planted in one hectare area. Pits for plantation shall be 1 feet × 1 feet and spacing shall be around 2.5m × 2.5m. Native plants like; Karanj, Khamer, Peepal, Neem, Mahua, Shisam will be used for greenbelt development.
- The project will generate direct (50 person) and indirect (25 person) employment opportunities from the nearby villages.
- Total water requirement for drinking and domestic (7.5 KLD), greenbelt development (3.0 KLD), and mining and allied activity (4.5 KLD) are 15.0 KLD.
- It has been estimated that there will be a total of 28 trips by 16T dumpers per day for transportation of ore from the mine site to the storage area.

#### **Mitigation Measures for Air Pollution**

Ambient air quality should be monitored on regular basis. The effect of mining operation on ambient air environment would include regular water sprinkled on road and stakes of ore, development of green belt, proper maintenance of machines.

#### **Mitigation Measures for Water Pollution**

The following mitigation measures are suggested for water management. However, priority relevance depends on the location and type of mining and minerals:

- Garland drains should be constructed on all side of quarries and external dumps.
- Garland drains should be routed through adequately sized catch pits or settling pits to remove suspended solids from flowing into storm water.
- Stone barriers across the drain should be constructed;
- Rainwater harvesting by constructing check dams on natural nallah.

#### **Mitigation Measures For Noise Pollution**

Noise generated at the mine due to blasting and transportation activities. Noise level should be reduced by maintaining of moving parts of machine, and a thick tree belt will be provided in phased manner around the periphery of the mine and along the roads.

## Social Environment

The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement. No public buildings, places, monuments etc exist within the lease area or in the vicinity. The mining operation will not disturb/ relocate any village or need resettlement. The impact of mining activity in the area is positive on the socio-economic environment of the region.

❑ Public hearing of the project was conducted on 25th May 2015 at the mine site.

The case was presented for TOR in the 146<sup>th</sup> SEAC meeting dated 08/11/2013 wherein after deliberations committee has approved the TOR with inclusion of following points to be addressed in the EIA:

1. Combined impacts have to be evaluated considering the other nearby mines.
2. The CSR plan should be need based, hence a survey for the purpose has to be conducted and presented with the CSR.

The case was presented by the PP and their consultant in the 29<sup>th</sup> SEAC II meeting dated 03/06/2016 wherein after deliberations wherein it was recommended by the committee that 06 meter high protection wall should be erected towards the village side to act as a barrier and Garland drains and settling tanks should be constructed all around the lease area. After presentation, PP was asked to submit response on following:

1. Revised plantation scheme with names of species. Committee suggested that minimum 3900 plants should be planted.
2. An affidavit from PP that commitments made in the public hearing should be fulfilled by them.
3. It was informed that the PP that school proposed nearby the lease has been shifted. PP was asked to submit documentary evidence in support of this.

The PP had submitted the reply of above queries which was presented before the committee and committee observed that the reply submitted by the PP is satisfactory and acceptable hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
4. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.
6. Production shall be as per the mining plan not exceeding 1,00,000 TPA for Limestone and 25,000 TPA for Reject Stone.
7. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
8. All the commitments made in the public hearing are to be fulfilled by the PP.
9. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
10. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
11. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: 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

**(R. K. Sharma, Member)**

**(Mohd. Kasam Khan, Member )**

**( Dr.Mohd. Akram Khan, Member )**

**(Prashant Shrivastava, Member)**

**(Dr.Sonal Mehta, Member)**

**(Dr.NavinChandra, Chairman)**

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions:

**Annexure- 'A'**

**Standard conditions applicable to Stone/Murrum and Soil quarries:**

1. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA
3. Transportation of material shall be done in covered vehicles.
4. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
5. Curtaining of site shall be done using appropriate media.
6. The proposed plantation should be carried out along with the mining @45 trees per hectare and PP would maintain the plants for five years including casualty replacement.
7. Transportation shall not be carried out through forest area.
8. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat.
9. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
10. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
11. PP should also maintain a log book containing annual details of tree plantation and causality replacement.
12. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: 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.
13. Mining should be doen as per the submiited land use plan submiited by PP.

**Annexure- 'B'**

**Standard conditions applicable for the sand Mine Quarries\***

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. The mining activity shall be done manually.
5. Heavy vehicles shall not be allowed on the banks for loading of sand.
6. The sand shall be transported by small trolleys up to the main transport vehicle.
7. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
8. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
9. No Mining shall be carried out during Monsoon season.
10. The depth of mining shall be restricted to 3m or water level, whichever is less.
11. No in-stream mining shall be allowed.
12. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
13. Established water conveyance channels should not be relocated, straightened, or modified.
14. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
15. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
16. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
17. EC will be valid for mine lease period subject to a ceiling of 5 years.
18. Mining should be doen as per the submiited land use plan submiited by PP.