

The 41<sup>th</sup> meeting of the Second State Expert Appraisal Committee (SEAC-II) for mining projects was held on 26<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. Shri. Mohd. Kasam khan, Member.
2. Shri. Prashant Shrivastava, Member.
3. Shri Rajendra Kumar Sharma, Member.
4. Shri Anil Kumar Sharma, Member.
5. Dr. Sonal Mehta, Member, Member.

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

**1. Case No. 2244/2014 Shri Bharat Singh Raghuvanshi S/o Shri Bheru Singh Raghuvanshi, Vill.-Bardari, Th. - & District-Dhar (M.P.)-454001. Prior Environment Clearance for approval of proposed Khandwa Basalt Stone & Murram Quarry in an area of 3.20 ha. at Khasra no.-1 & Part of 414, Vill.-Khandwa, Th.-Dhar, District-Dhar (M.P.)**

This is case of Khandwa Basalt Stone & Murram Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1 & Part of 414, Vill.-Khandwa, Th.-Dhar, District-Dhar (M.P.) 3.20 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 vides letter no. 10200, dated: 26/11/2014 has reported that there are 06 more mines operating or proposed within 500 meters around the said mine with total area of 14.462 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. PP was also absent in the 30<sup>th</sup> SEAC meeting dated 04/06/2016. Committee decided to call the PP in subsequent meetings giving him last chance to present his case and if the PP remains absent even then, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**2. Case No.-5266/2016 Shree Banshiwale Stone Crusher, Gwalior, MP – 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 are no more mines operating or proposed within 500 meters around the said mine.

**Environment setting**

Particulars	Details
Locations	
Village	Gundhara
Tehsil	Gwalior
District	Gwalior
State	MP
Nearest National/state Highway	Gwalior- Mau Road - 10.50 km - W
Nearest Railway Station	Gwalior - 30 Km - SW
Nearest Airport/ Airstrip	Gwalior - 30 Km - SW
Nearest Tourist Place	None within 10km radius
Archaeological Important Place	None within 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sirsod RF -2.5 km -SW Phusawali RF -1.5 km - S Devgarh RF - 7.15km - S
Nearest major city with 100000 population	Nil
Nearest village	Gundhara - 0.25 km – N
Nearest Town	None within 10km radius
Physiographic	Hilly
Elevation	218- 195M
Slope	Radial
Nearest River	Vaisali Nadi - 7.25km - WSW Bhadauna Nadi - 8.0km - W

Nearest nalla/ pond/canal	Local Nalla - 0.50km - W Local Nalla - 4.75km - S Village Pond - 0.20km - N
Nearest hill/valley	None within 10 km radius
No. of mine located with 500m radius	None
Elevation	Highest - 218m RL Lowest - 195m RL
Surrounding features	North – Waste land followed by habitation South – Agricultural land East- Agricultural land West – Agricultural land followed by Village road.

### Salient feature of the lease area

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	32.280 ha
Mineable area	30.1650ha
Existing Pits & Quarries	Nil
Existing Dumps	Nil
Existing backfilled area	Nil
Infrastructure and road	Nil
Plantation	Nil
Total geological Reserve	6578744 cubic meter
Total Movable Reserve	5726604 cubic meter
Method of mining	Semi- mechanized
Ultimate Depth of Mining	10m bgl (185m RL)
Expected Life of Mines	13 years
Stripping Ratio	1:0.2
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	30.1650 ha
Area to be reclaimed till conceptual period (By Backfilling )	Nil
Area to be rehabilitated by afforestation in conceptual period	4.20 ha
Area to be covered under water reservoir	28.00 ha
Ground water table	
Post monsoon	30m bgl (165m RL)
Pre monsoon	35m bgl (155 m RL)
Production per day (M <sup>3</sup> )	1445
Truck per day (14M <sup>3</sup> )	103
End user of mineral	Infrastructure and development project, road project

### GEOLOGY OF THE MINE

<b>Geology and deposit appraisal</b>	
Area	32.280 ha
Lithology	Weathered siliceous loamy lateritic soil and murum: 1.5-2.0m ( average ) Metal stone/Boulder stone – 33m avg. Color- Grey to dark grey, Black Granularity – Medium grained Hardness- 5-6
Average thickness of Metal stone /Boulder Stone	33 m avg.
Recovery of reserves	98 %
Geological reserve (G2) category (90% recovery)	6447198 cube meter
Mineral resource (ore blocked in Barrier zone in cube meter )	455994 cube meter
Mineral resource ( maintaining the benches slope )	264600 cube meter
Probable Mineral Reserve	5726604 cube meter
Prefeasibility Mineral Resource (total block mineral)	720594 cube meter
Proposed Production	433403 cube meter
First five year production	2047860 cubic meter
Balance reserve after SOM period	3678744 cubic meter
Hence mine life (5+balance reserve/ Production )	$3678744 / 433403$ cube meter = 8.48+5 = 12.48 say 13 Year
Height of bench and no.	1m -5m and 7 benches
Haul road gradient	1:16

### Post land use plan

Items	At present	At the end of SOM	At the end of conceptual period
<b>Total lease area</b>	<b>32.280 ha</b>		
Mineable area	30.1650 ha		
Ultimate depth of mining		10m bgl (185mRL)	10m bgl (185mRL)

Ultimate pit slope		45 °	45 °
Area under dumps	Nil	Nil	Nil
Area under pits	Nil	11.7776 ha	30.1650 ha
Area to be reclaimed	Nil	Nil	Nil
Infrastructure & Road	Nil	0.01 ha	Nil
Plantation	Nil	1.0ha	4.20ha
Water body	Nil	5.0ha	28.00 ha

The case was presented by the PP and their consultant and during presentation it was observed that the total area of lease is > 25 ha thus it was decided to consider this case as B-1 and committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.

**3. Case No.5203/15 Shri Shankar Singh S/o Shri Zujhar Singh, Owner, Simrol, Tehsil-Mahidpur, District-Ujjain (MP)-470113. Prior Environment Clearance for Sand Auctioned Quarry Deposit in an area of 7.38 ha. (84132 cum/year) at Khasra no.-Part of 623, Village-Tipukheda, Tehsil-Mahidpur, District-Ujjain (MP)**

This is case of Sand Auctioned Quarry Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-Part of 623, Village-Tipukheda, Tehsil-Mahidpur, District-Ujjain (MP) 7.38 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. 619 dated: 24/02/16 has reported that there is no more mine operating or proposed within 1000 meters around the said mine.

The case was scheduled for presentation in the 37<sup>th</sup> SEAC II meeting dated 12/07/2016 wherein it is recorded that *“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. PP was also absent in the 31<sup>st</sup> SEAC II meeting dated 15/06/2016. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project”*.

The case was again scheduled for the presentation today but 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. Earlier PP was also absent in the 31<sup>st</sup> SEAC II & in 37<sup>th</sup> SEAC II meeting. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**4. Case No.-5281/2016 Shri Mukesh Panchal, S/O Shri Jagdish Panchal, Vill. Akoliya, Teh. & Dist. Dhar, MP – 454001. Prior Environment Clearance for Crusher Stone Deposit in an area of 1.800 ha. (14250 cum/year) at Khasra No. 265 at Village-Jamodi, Tehsil - Dhar, Dist. Dhar (MP)**

This is case of Crusher Stone Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 265 at Village-Jamodi, Tehsil - Dhar, Dist. Dhar (MP) 1.800 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.-753 dated: 20/04/15, has reported that there are 08 more mines operating or proposed within 500 meters around the said mine with total area of 22.80 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 if the PP remains absent even then, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**5. Case No.-5284/2016M/s Amarawati Stone Crusher, Village – Pratapura, Tehsil Orcha, Distt. Tikamgarh MP – 472001 (SIA/MP/MIN/15685/16). Prior Environment Clearance for Stone Mine in an area of 2.559 ha. (12000 cum/year) at Khasra No. 2/2/1, 4/3 & 6/1 at Village-Pratappura, Tehsil - Orchha, Dist. Tikamgarh (MP)**

This is case of Stone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 2/2/1, 4/3 & 6/1 at Village-Pratappura, Tehsil - Orchha, Dist. Tikamgarh (MP) 2.559 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.-1394 dated: 28/12/15, has reported that there are 19 more mines operating or proposed within 500 meters around the said mine with total area of 47.113 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 if the PP remains absent even then, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**6. Case No. 904/12 M/s Anju Mittal, E-3, Junior MIG-21, Arera Colony, Bhopal-462016 (M.P.). Environment Clearance for approval Soil (Mud) Quarry (Lease Renewal) of 4.00 Hectares at Khasra no.-54/1, Vill. Ramkhedi, Teh.-Goharganj , Dist.-Raisen**

This is case of Soil (Mud) Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-54/1, Vill. Ramkhedi, Teh.-Goharganj, Dist.-Raisen 4.00 Ha. The project requires prior EC before commencement of any activity at site.

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. PP was also absent in the 35<sup>th</sup> SEAC meeting dated 03/07/2016. Committee decided to call the PP in subsequent meetings giving him last chance to present his case and if the PP remains absent even then, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**7. Case No.-5283/2016 Smt. Jyoti Garg, Owner, 22, Patel Nagar, Aerodrome Road, P.O. & District – Indore. Prior Environment Clearance for Laterite, Ochre & Clay Deposit in an area of 10.99 ha. (36,289 TPA) at Khasra No. 567, 568, 570, 571, 572, 573, 574/2, 575/1, 575/5, 575/6, 575/7 at Village-Amoch, Tehsil - Bahoriband, Dist. Katni (MP)**

This is case of Laterite, Ochre & Clay Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 567, 568, 570, 571, 572, 573, 574/2, 575/1, 575/5, 575/6, 575/7 at Village-Amoch, Tehsil - Bahoriband, Dist. Katni (MP) 10.99 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.-400 dated: 14/01/16, 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 by the committee that the site lies within the 250 meters of forest boundary for which PP has obtained approval of Divisional Commissioner Level Committee in their meeting dated 19/11/2015. 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.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.



6. Production of Laterite, Ochre & Clay shall be as per the mining plan not exceeding 36,289 TPD
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. Appropriate activities shall be taken up for social up-liftment of the Region. 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. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan.
11. Transportation shall not be carried out through forest area.
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.

**8. Case No. - 1507/2013 Smt. Gopangna, Village-Jakhoda, Tehsil-Ghatigaon, District-Gwalior (M.P.). Prior Environment Clearance for approval Stone quarry of 02.00 Hectare at Khasra no.-1724, Vill.- Jakhoda, Tehsil-Gwalior, Distt.-Gwalior (M.P.)**

This is case of Stone quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1724, Vill. - Jakhoda, Tehsil-Gwalior, Distt.-Gwalior (M.P.) 2.00 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.-769 dated: 31/05/16, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was earlier discussed in the 169<sup>th</sup> SEAC meeting dated 27/01/2015 and was recommended for delisting as “*It was observed that Project Proponents of these projects have not responded / submitted the requisite information since long (Details enclosed as Annexure-1). Hence assuming that the proponents of these projects are not interested to continue with their projects these cases are recommended for delisting and further necessary action in the matter*”.

The case was relisted by SEIAA as per the discussion in their 339<sup>th</sup> meeting dated 13/06/2016 and the case file was sent to SEAC for re-appraisal vide letter no. 2415/SEIAA/16 dated 07/07/2016.

The case was placed before the committee and the PP was also present. Committee on perusal of documents observed that it's a case of minor mineral (stone) with an area of 2.00 ha and the concerned Mining Officer vide letter no. 769 dated: 31/05/16 has reported that there are no more mines operating or proposed within 500 meters around the said mine. The committee after deliberations recommends that the case falls under the jurisdiction of DEIAA and thus may be transferred to DEIAA through SEIAA.

**9. Case No. 3551/15 Shri Shiv Kumar Singh R/o House No. C-3/22, Sindsor Hill, Siroi Road, District-Gwalior (MP)-474011. Prior Environment Clearance for approval of Stone Quarry in an area of 1.00 ha. (26,325 cum/year) at Khasra No.-1351, Vill.-Kharag, Teh.-Datia, District-Datia (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-1351, Vill.-Kharag, Teh.-Datia, District-Datia (MP) 1.00 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.-702 dated: 25/06/16, has reported that there are 10 more mines operating or proposed within 500 meters around the said mine with total area of 27.22 ha including this mine.

The case was earlier discussed in the 30<sup>th</sup> SEAC-II meeting dated 04/06/2016 wherein during presentation it was observed that:

*The case was presented by the PP and their consultant wherein it was informed to the PP that being a case of cluster where area is > 25.00 ha, TOR will be issued for carrying out EIA considering the certificate of Mining Officer wherein it is reported that there are 10 more mines operating or proposed within 500 meters around the said mine with total area of 27.22 ha including this mine issued vide letter no. 376 dated: 16/07/2015. However, PP contested that some mine which are listed in the MO certificate are actually cancelled. The committee after*

*deliberations asked PP to get the revised Mining Officer certificate within 15 days for further consideration of the project. If PP fails to submit the certificate within 15 days case may be sent back to SEIAA assuming that PP is not interested to continue with the project as in earlier SEAC meeting no. 234 and 260 PP was absent.*

The case was again scheduled for the presentation today but 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 if the PP remains absent even then, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

**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 case of Stone & Murram Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1285, Village-Mamaun, Tehsil-Bijawar, District-Chhatarpur (MP) 7.00 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.-341 dated: 09/03/16, has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 11.00 ha including this mine.

The case was scheduled for the presentation today but 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. Earlier PP was also absent in the 38<sup>th</sup> SEAC II meeting. Committee decided that last chance may be given to PP in next meeting and even it PP remain absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

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

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 are no more mines operating or proposed within 500 meters around the said mine.

This case is already discussed in this meeting at Sl.No. 02 and due to typographical error it is repeated again and thus should be dealt according to the decision taken at Sl. No.02.

**12. Case No.-5279/2016 M/s Shobha Minerals, 765, Napier Town, Jabalpur. Prior Environment Clearance for Laterite, Manganese, Iron & Yellow ochre in an area of 4.03 ha. (307235 TPA) at Khasra No. 99 at Village-Keolari, Tehsil - Sihora, Dist. Jabalpur**

This is case of Laterite, Manganese, Iron & Yellow ochre. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 99 at Village-Keolari, Tehsil - Sihora, Dist. Jabalpur 4.03 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.-2101 dated: 16/11/15, has reported that there are 04 more mines operating or proposed within 500 meters around the said mine with total area of 22.14 ha including this mine.

### Environment setting

Locations	
Village	Keolari
Tehsil	Sihora
District	Jabalpur
State	MP
Nearest National/state Highway	NH-7 - 0.33km - WNW
Nearest Railway Station	Gosalpur -0.57 km - E
Nearest Airport	Jabalpur - 22.0km - S
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)	Borha RF -4.9 km - SE
Nearest major city with 100000 population	Jabalpur
Nearest village	Keolari -0.19 km - SE
Nearest Town	Jabalpur -22.0 km - S
Physiography	Hilly terrain
Elevation (AMSL)	406-395M
Slope	Radial
Nearest River	Heron River - 3.50 km - NW

Nearest other surface bodies	Water reservoir – 3.70km - SW Canal - 5.60 km - SE Marel reservoir - 8.80km -ESE Barrne Reservoir – 7.75 km - ESE Moheri Reservoir – 9.10 km - S Barene Reservoir –6.60 km - SSE
Nearest hill/valley	None in 10 km radius
No. of mine located with 500m radius	1.) Shri Shiv Kapoor (0.840) ha 2.) Smt. Laltesh Singh w/o Shri Pratap Singh (4.890ha ) 3) Ms. Jakhodiya minerals (6.880ha )
Elevation (AMSL)	406-395 M
Surrounding features	East- Agricultural land West – Agricultural land North –Agricultural land South - Waste land followed by Village road

**Sailent feature of the lease area**

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	4.03 ha
Existing Pits & Quarries	1.6886 ha
Existing Dumps	Nil
Infrastructure and road	0.15ha
Plantation	0.10 ha
Total geological Reserve	3535450 MT
Total Minalbe Reserve	1657710 MT

Method of mining	Fully - mechanised
Existing depth of pit	20m bgl (375 m AMSL)
Ultimate Depth of pit	25m bgl (370 m AMSL)
Expected Life of Mines	6 years
Stripping Ratio	Nil
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	2.6143 ha
Area to be reclaimed till conceptual period	Nil
Area to be rehabilitated by afforestation in conceptual period	1.85 ha
Area to be covered under water reservoir	1.9969 ha
Monsoon period	35 m bgl (360m AMSL)
Dry month	40 m bgl (355m AMSL)
Production per day(T)	1024 MT
Truck per day (24t)	43 Nos
Supply location	Beneficiation plant, cement plant and steel plant
Validity of Consent to operate	31.10.2016

## GEOLOGY OF THE MINE

<b>Geology and deposit appraisal</b>	
Local geology	The lease area has ore zone having laterite /iron ore in lumps /Mn ore pebbles in a capping from for 6-9 m and resting over the iron ore fines within phyllitic formation. The beds are steeply dipping to south the south and belong to

	mahakaushals. The regional set up is NE- SW dipping $60^{\circ}$ S while in the area strike is NW- SE
Lithology	The lease area is occupied by 8-9 m thick capping of ore zone( ore zone is assemblage of laterite + iron ore+ Mn ore ) and this capping is resting over the blue dust (iron ore fines)+ Mn ore zone and thickness of ore zone below capping is near about 20m .
Average thickness	20m
Lease area	4.03ha
Mineable area	3.0388 ha
RL	406- 395 M
Height of bench, width and no of bench	Existing - 2-6 m, 2-12 and 3 no. Proposed – 6m, 6m and 7 no.
Width of haulage road	6-7m
Gradient	1:16 to 1:20
Mineral reject	Nil
Intercalated waste	No intercalated waste while the voids will be 5% in ore zone as recovery loss.

### Post land use plan

Items	Existing	At the end of conceptual period
Total lease area	4.03ha	
Mineable area	3.0388 ha	



Ultimate depth of mining	20m bgl (375m AMSL)	25m bgl (370 m AMSL)
Ultimate pit slope	45 °	45 °
Area under dumps	Nil	Nil
Area under mineral stack	1.0614ha	Nil
Area under pits	1.6886 ha	2.6143ha
Area to be backfilled	Nil	Nil
Infrastructure & Road	0.15ha	0.11 ha
Plantation	0.1ha	1.85ha
Water body	0.15ha	1.9969ha

The case was presented by the PP and their consultant. Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
6. Compliance of consent conditions of M. P. Pollution control Board from concerned Regional Office.
7. Year wise details of minerals already excavated till date should be submitted with EIA report.
8. Aforestration plan with some species of meditational plants.

**13. Case No.-5280/2016 M/s Murlidhar Minerals, 316, Shrikrishna Apartment, Khare Town, Dharampeth, Nagpur – 440010. Prior Environment Clearance for Dolomite Mine in an area of 9.595 ha. (700000 MTPA) at Khasra No. 86 at Village-Malegaon, Tehsil - Sausar, Dist. Chhindwara (MP)**

This is case of for Dolomite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 86 at Village-Malegaon, Tehsil - Sausar, Dist. Chhindwara (MP) 9.595 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.-283 dated: 24/02/16, has reported that there are 05 more mines operating or proposed within 500 meters around the said mine with total area of 42.148 ha including this mine.

The case was presented by the PP and their consultant. During presentation it was informed to the PP that as per MO certificate it's a case of TOR as the total area of leases within 500 meters is >25.00 ha. PP informed that as per the recent notification of GOI, MoEF&CC dated 01/07/2016 all the mining leases for which mine lease or query license is granted before 09/09/2013 will not become the part of cluster.

The copy of above notification was made available to all the members of the committee for perusal. In the GOI, MoEF&CC notification dated 01/07/2016 it is stated that “A *cluster shall be formed when the distance between the peripheries of one lease is < than 500 meter from the periphery of other lease in a homogeneous mineral area which shall be applicable to the mine leases or query license granted on and after 09/09/2013*”.

Thus committee after deliberations decided that PP should submit revised mining officer certificate clearly stating the number of leases within 500 meters of the periphery of this lease on Khasra map showing the details of all the other leases and their relevant information in following format:

Sl. No.	Name & details of leases	Khasra No.	Area of lease	Name of the minerals and their	Lease Sanctioned order & date. (please	Present status of lease i.e. operative/proposed /non-operative. If	Present status of lease i.e. granted/ applied. If	EC	EC	EC

				production capacity	attach copy of lease sanction order)	non-operated duration from when it is non-operative with order (if any).	granted- date of EC should be mentioned. (Please attach copy of EC letter.)

The above certificate should be issued by mining officer which should be duly verified /authenticated by the Director, Geology and Mining or their concerned Regional Officer, Geology and Mining for further consideration of the project.

**14. Case No.-5285/2016 M.P. State Mining Corporation Ltd Paryawa Bhawan, Block No. 1, 2nd Floor Jail Road, Bhopal. Prior Environment Clearance for Bauxite Mine in an area of 4.90 ha. (50000 TPA) at Khasra No. 3852 & 3853 at Village-Tikar, Tehsil - Huzur, Dist. Rewa (MP)**

This is case of Tikar Bauxite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 3852 & 3853 at Village-Tikar, Tehsil - Huzur, Dist. Rewa (MP) 4.90 Ha. The project requires prior EC before commencement of any activity at site.

**Environment setting**

Particulars	Details
Locations	
Village	Tikar
Tehsil	Huzoor
District	Rewa
State	MP
Nearest National/state Highway	Govindgarh – Rewa MDR Road - 4.50 km - NW
Nearest Railway Station	Rewa - 23.75km - NW
Nearest Airport	Churhata Rewa - 23.25km - NW
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)	Govindgarh Reserved Forest

Nearest major city with 100000 population	None within 10km radius
Nearest village	Bilhilihatola - 3.80km - N
Nearest Town	Rewa - 20km - N
Physiography	Hilly
Elevation	647-621m AMSL
Slope	Radial
Nearest River	Son River -9.50 km - SE Bichya nadi -7.15 km - N Banas River - 10.0km - SE
Nearest nalla/ pond/canal	Phapho nala - 5km -S Kataha nala - 4.30km- S Pakariar Nala - 4.15km -N Marhawal Nalla - 5.80km – SSE Canal - 1.50km - S
Nearest hill/valley	Jaliadhar Pahar

### Sailent feature of the lease area

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	4.90ha
Existing Pits & Quarries	3.55 ha
Existing mineral stack	0.68 ha
Infrastructure and road	0.10ha
Plantation	0.15 ha
Total geological Reserve	1545660mt
Total Minalbe Reserve	865252 mt
Method of mining	OTFM
Ultimate Depth of Mining	612mRL
Expected Life of Mines	20 years
Stripping Ratio	1:0.15
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	4.50 ha
Area to be reclaimed till conceptual period	4.50ha
Area to be rehabilitated by afforestation in conceptual period	4.90ha
Area to be covered under water reservoir	Nil
Ground water table	
Monsoon period	60m (561 m AMSL)
Dry month	70 m (551 m AMSL)
Production per day (MT) (275 working day)	182

Truck per day (24 MT)	8
Requirement of metal	Aluminum plants and Cement plants
Supply location	All over India

## GEOLOGY OF THE MINE

Geology and deposit appraisal	
Local geology	Bauxite like other high level deposits, occurs in the laterite profile as lenses and as irregular segregations in the blanket of laterite at high altitude. Bauxite has also been encountered at lower level, which may be secondary i.e. either detrital or removed to lower levels by breaking-off of scarp known's as "Scrap retreat" and has been included in the float deposit. The enrichment of alumina at places has given rise to good quality massive Bauxite, the thickness of which exclusively established upto 18m and is in lenticular form.
Lithology	<b>0.0 to 0.50m</b> - Lateritic Soil <b>0.0 to 0.50m</b> - Pilolitic Laterite/ Upper Laterite 12.0 to 18.0m – Upper Aluminous Laterite Bauxite Lower aluminous laterite
Borehole	20m depth
Lease area	4.90ha
Mineable area	4.50ha
Mineral depth	9m bgl (upto 612m AMSL)
AMSL	Max. – 647m and min. - 621m
Height of bench and no of bench	Existing – 1 & 3m and 5 no. Proposed – 1& 6m and 5 no.
Width of bench	Min. 6m
Width of haulage road	10m
Gradient	1:16

## Post land use plan

Items	Existing	At the end of conceptual period
Total lease area	4.90 ha	
Mineable area	4.50 ha	

Ultimate depth of mining	7mbgl (614m AMSL)	9m bgl (612 m AMSL)
Ultimate pit slope	Nil	45 °
Area under mineral store	0.68 ha	Nil
Area under pits	3.55 ha	4.50ha
Area to be reclaimed	Nil	4.50 ha
Infrastructure & Road	0.10 ha	Nil
Plantation	0.15ha	4.90ha
Water body	0.50 ha	Nil

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.-1157 dated: 18/05/16, 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. Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. Transportation plan & traffic management plan should be discussed in the EIA report.
3. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
4. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
5. Compliance of consent conditions of M. P. Pollution control Board from concerned Regional Office.
6. Year wise details of minerals already excavated till date should be submitted with EIA report.

7. Aforestration plan with some species of meditational plants.

**15. Case No. 2310/14 M/s. KJS Cement Ltd., NH-7, Rajnagar, PO Maihar, Distt. Satna. Prior Environment Clearance for approval of proposed Lime Stone mine in an area 7.316 ha. Capacity-5000,000TPA, at Khasra no.-152P, 154P, 163P, 164P, 165P, 166P, 167, Village – Piprahat, Tehsil – Maihar, Distt. Satna (EIA Presentation)**

This is case of Lime Stone mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-152P, 154P, 163P, 164P, 165P, 166P, 167, Village – Piprahat, Tehsil – Maihar, Distt. Satna 7.316 Ha. The project requires prior EC before commencement of any activity at site.

This is a Mining project comprising mining of Limestone. Lease area proposed is 7.316 Ha and the proposed production capacity is 5.0 lac TPA. The project is covered under the provisions of EIA Notification as item no. 1(a). Hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site.

**Salient Feature of the Project**

Project Site	Village Piprahat, Tehsil Maihar, District Satna, State: Madhya Pradesh	
Site Coordinate	Latitude: 24°07'0.50.4" to 24°08'06.2" Longitude: 80°46'21.7" to 80°46'34.4"	
ML Area & Type of land	7.316 Ha of own, private and government land.	
Name of Important Rivers/ Nallahs/ Tanks/ Spring/ Lakes etc within 15km	Chakdahi Nala Tamas River Water body Mahanadi River Kalindi Nadi Dhumma Nala Jarjarar Nala Ghusru Nala	0.5km South 5.0km North-west 7.6km SE 14.5 km SE 3 km SE 6.2 km E 6.5 km S 6.5 km NNW
Name of Reserve Forest(s), Wild life Sanctuary/ National parks etc. within 15km	Revere Forest : 9.7km North-West Gorariya RF : 12.4 km East Hardua RF: 6.0 km South Open Mixed Jungle 0.30 km	
Topography of ML area	Highest Elevation - 366 AMSL towards west Lowest Elevation 362 m A.M.S.L. in south-east	
Name of mineral mined	Limestone	

Rate of Production (TPA)	5,00,000 TPA
Stripping Ratio	1:0.16
Life of mine	6 Years
Method of Mining	Opencast Other than Fully Mechanized Mining
Ground water level	35 - 40 m bgl (322 to 327 m AMSL)
Ultimate depth of mine	30 m
Water Requirement & Source	Total water requirement for dust suppression, plantation and drinking is 45.0KLD. Water will be sourced from bore wells (nearby villages) for drinking and domestic purpose, while dust suppression water used from mine pit
Manpower Requirement	85
Total Working Days annually	275
Cost of project	Rs.1.31 Crores

The nearest railway station is at Bhadanpur, which is 10 km away from the site in North West direction. The nearest airport is Khajuraho at 135.0 km in North West direction. Nearest highway is SH 11 is about 4.0 km in East direction. The nearest town is Maihar at a distance of 21.0 km.

- Total mineral reserve of Limestone is 22,58,820 Tonnes. Life of the mine is 06 years. Ultimate depth of the mine is 30m bgl and water table of the area varies from 35m to 40m bgl.
- Controlled and 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)	1.00	3.593	(6.124)
2	Area fully mined out (out of 1)	0.12	0.12	(6.124)
3	Area fully reclaimed (Backfilled out of 2)	Nil	0.12	(1.43)
4	Area rehabilitated out of 3 by afforestation	Nil	0.12	1.43
5	Area reclaimed by water harvesting	Nil	Nil	4.694
6	Total area under dumps	0.12	1.12	Nil
7	Area under Active Dump	Nil	1.12	Nil
8	Area under mineral stack	Nil	0.25	Nil
9	Area under Road	0.10	0.10	Nil



S.No.	Area	Existing	5th Year end	Mine Life End
10	Area under Green belt	Nil	1.08	1.192
11	Area under infrastructure	Nil	0.05	Nil
	<b>Total</b>			<b>7.316</b>

The salient features of the project, proposed TOR and EMP were presented by the PP before the committee in the 172<sup>nd</sup> SEAC meeting dated 22/02/2015. After deliberations committee has approved the TOR with inclusion of following points in addition to standard TOR to be addressed in EIA / EMP:

- Note on extent of mining carried out so far since opening of the mine to be furnished along with the supporting data and recent photographs.
- Detailed plan for protection of the nearby ‘Chakdehi’ Nallah with illustrations to be incorporated in the EMP.
- Water balance clearly mentioning the use-wise water consumption. Source of water with necessary commitment, NOC / Permission from the concerned authority to be furnished.
- Soil depth study and estimation of top soil required to be excavated has to be carried out as per actual site conditions.
- At least one monitoring station has to be installed towards the Forest boundary as well as towards Village boundary.
- Evacuation plan including the road network and manpower/infrastructure requirement to be presented.
- Line –source modeling shall also be carried out to depict the pollution load from transportation of mineral.
- Commitment for maintenance of 04 Km road from the site up to the State Highway from the project proponent, the plan and budgetary provisions to be furnished with EIA / EMP.
- Hydro-geological study has to be carried out and presented with recommendations and mitigations to maintain / improve the ground-water regime in the region.
- Detailed plan for mine-water disposal.

PP has submitted the EIA report which was sent by SEIAA vide letter no. 2436/SEIAA/16 dated 11/07/2016. The case was presented by the PP and their consultant. After presentation, PP was asked to submit response on following:

1. Traffic circulation and management plan.

2. Tar road is only 15 meters away from the ML. thus PP was asked to submit a map of QL showing 35 meters area left as a setback.
3. Top soil management plan.
4. The QL is connected to main approach road by a 15 meters kachha road. PP was asked to provide water sprinklers on this road for which a written commitment is to be submitted by the PP.
5. Details of vibration studies carried out should be submitted with proposed mitigation measures.
6. Mine water discharge plan with details of proposed garland drains and settling tanks on a map should be submitted.
7. Revised EMP and CSR with enhanced budgetary provisions.
8. A written commitment that all the commitments made in the public hearing will be fulfilled by PP.

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

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

**( A.K Sharma, 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.