

The 207th meeting of the State Expert Appraisal Committee (SEAC) was held on 22nd July, 2015 under the Chairmanship of Dr. R. B. Lal 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. Mohini Saxena, Member
2. Dr. U.R. Singh, Member
3. Shri A.P. Srivastava, Member
4. Dr. M.P. Singh, Member
5. Dr. Alok Mittal, Member
6. Shri Manohar K. Joshi, Member
7. Shri A.A. Mishra, Secretary

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

1. Case No. 1241/2013 M/s Yash Raju Bhansali, Gyan Ganga, Nadi Gate, Jayendraganj, Lashkar, Gwalior ToR issued on 29-06-13 by SEAC. EMP Presentation based on TOR prescribed by SEAC B.T. Metal aggregate Mines at Survey No. 169 (2.44 Hectare) Village Sumerpada, Gwalior.

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Survey No. 169 (2.44 Hectare) Village Sumerpada, Gwalior in **2.44 ha**. It was reported by the PP that within a radius of 500 meters around this mine there are 03 more mines with cumulative lease area of 20.97 ha. All four mines are operational and owned by the same group of owners under the names of 04 different leasee. The quarries with lease area of 2.44 ha, 2.44 ha, 8 ha and 8.089 ha are operating for production of metal stone within 500 meter periphery from each other. Two quarries with lease area 8.0 Ha and 8.089 Ha have already obtained prior EC from MPSEIAA, whereas the other two quarries of 2.44 Ha each registered as Case no. 1241/2013 & 1379/2013 were considered in the earlier meetings of SEAC for necessary recommendations.

After scrutiny of the submissions and a field visit by SEAC it was decided to issue a TOR for both the projects to prepare a comprehensive EMP for the complete region considering all the 04 mines. It was observed that the EMP for the larger mines has already been approved by the SEAC/ SEIAA hence SEAC suggested the PP to extend the EMP encompassing all the 04 mines. Accordingly a TOR was issued. The EMP submitted by the PP was presented by the PP and their consultant. The presentation and submission made by the PP reveals following:

The quarry area was granted in the year 2008 for period of 10 year from 04.07.2008 to 03.07.2018. The quarry is in operation and applied for production enhancement of 4,00,000 m³ per year.

Salient features of the project

Village	Sumerpada
Mining Lease Area	2.44 ha
Mineable Area	2.44 ha
Existing Pits & Quarries	1.0 ha
Area of pit at the end of conceptual period	2.1ha Thickness of sandy soil
Method of mining	Semi-mechanised
Present Depth of Mining	8mbgl
Ultimate depth of mining	10mbgl
Lease Period	10 years
Soil thickness	
Minimum	0.5m
Maximum	1.5m

Existing mode to transportation	Road
Area to be covered under plantation by conceptual period	0.25ha
Area to covered under water reservoir	1.0ha
Nearest National/ state Highway	Kalpi road 2.60km
Nearest Railway Station	Gwalior 19.0km
Nearest Airport	Gwalior 13.25km
Nearest Tourist Place within 10km radius	None within 10km radius
Archaeological Important Place within 10km radius.	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None within 10km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	None within 10km radius
Nearest major city with 100000 population within 10km radius	None within 10km radius
Nearest Town / City within 10km radius	None within 10km radius
Nearest Village (km)	Chandrapura 0.75- SSE Turakpura 0.75 ó SW Sumerpura 0.60- NW
Nearest River	Vaishali Nadi 1.35km ó E Morar Nadi 6.75km - W
Nearest Nalla/pond/ water reservoir	Nalla 0.2km-S Nalla 0.4km - SSE
Nearest Hill Ranges	None within 10km radius

Crusher is not proposed in the lease area.

EMP implemented / proposed

Air Quality

Dust is the major pollutant generated from the mining operations, during handling and transportation of the material. The environmental control measures, which has been taken up are existing as well as proposed to control the fugitive dust released during the production are given below:

- Spraying of water has been observed on the haulage roads & services road and frequency of the spraying over haulage road is required to increase. Same practice need to be adopted in future also after capacity expansion for both the mine.
- The transportation route is proposed to have rows of tress on both side up to 5 km from the cluster zone periphery and if required, permission may be taken from competent authority for plantation along the roads.
- Crusher area is required to be cover up with the green belt all along the surrounding with two row system. Maintenance of vibrating screen and water spraying system at crusher need to be attended regularly.

- Old dumps have been utilised for road maintenance and little blanket material have been seen on the site which is to be used for road maintenance and spreading up over area to be used for plantation purposes. Over burden dumps will not be left active for longer period and will be used for reclamation purposes.
- Dust mask to be provided to all workers, but use of PPEs shall be made compulsory.
- Regular maintenance of vehicles and machines has been carried out in order to control emissions. After the capacity expansion, frequency of maintenance may be changed, hence log book and prior maintenance schedule is required for smooth functioning.
- During the drilling of metal stone, water has been sprayed, to reduce the dust emission. The same practice shall be continued in future.
- The approach road from area of cluster to PWD road is about 8.0 km, is kuchha and dust generation due to transportation has been for limited period and extent to small area. Water spraying has been observed out; however frequency of spraying should be regularly and before movement of dumpers.

Noise Environment

The sources of noise in mining activity are drilling, blasting, excavation & transportation. Following management practices have been observed for the present operation.

A) Drilling

1. Hydraulic drills have been used for drilling in all the four quarries;
2. All moving & non-moving parts are properly lubricated and fastened

B) Blasting

- Explosives is blasted in confined stage during charging of holes;
- Blasting is observed between 12 noon to 4 pm, which should be taken care in future also.
- No blasting shall be done when the sky is clouded because cloud cover can cause reflection of pressure wave back to the ground level at some distance from the blast
- Electric detonators shall be used instead of the detonating fuse as trunk line.
- Maintenance of machines and vehicles has been carried out regularly. The scheduling of frequency is need attraction.
- Noise generating machinery must be strictly in compliance with the recommendations of the manufacturers. This would ensure an free from vibration and exhaust leaks which contribute to increased noise levels. Provision of insulating caps and aids at the exit of noise source on the machinery. Noise control measures should also be lined up in the crusher area, though it is not part of subject proposal and cluster also.
- Use of physical barriers and green belt development around the cluster of mine to restrict the noise from going outside the mine boundary during operation

Water Environment

There is no water course in the lease area. The main drainage of the area is through seasonal Nalla and Vaishali River, which are in south and south east direction from the cluster of quarries.

The actual location of nalla is S direction from cluster of mine, which is flowing from South to Eastern direction and location of Vaishali River is E direction from cluster of quarry lease flowing from SE to Eastern direction.

The water table in the quarry area varies from 30m to 40m, whereas mining will be done up to avg. 10m depth thus ground water table will not be touched during conceptual period.

As informed rainwater gets accumulated in the working pit which is pumped out to settling tank and allowed to be used by the villagers. The quality of discharged water must be ensured after settling tank before draining at agricultural land. Water requirement of the project has been met from existing bore well and pit water. Following measures have been observed to control the water pollution:

- Garland drain along the stored blanket material having depth & length of as 0.20m and 5000m respectively.
 - Garland drain is proposed along the slope of hill towards nalla side in southern direction.
 - Garland drain is also proposed towards agricultural land along the hill slope in northern direction.
 - By providing drain around hill slope, the impact of silt flow towards the agricultural field and nalla is somehow prevented.
 - Pump has been installed to lift accumulated rain water from working pit.

Further measures have been suggested considering the cluster situation and capacity expansion in two quarries:

- Following drains are proposed considering the cluster situation
 1. Garland drain no.-1 SE direction along the Emerald Industries mines measuring 430 mt L X 0.5mt D
 2. Garland drain no.2 - S direction along the Emerald Industries mines measuring 550 mt L X 0.5mt D
 3. Garland drain no.-3 - S direction along the Emerald Industries mines measuring 390 mt L X 0.5mt D
 4. Garland drain no.-4 SW direction along the Yashraj mines measuring 180 mt L X 0.5mt D
 5. Garland drain no. 5 - W direction along the Yashraj mines measuring 570 mt L X 0.5mt D
- Following settling tanks are proposed to control sedimentation problem

Number of Settling tank	Location of settling tank	Size of settling
ST-01	N of Emerald Industries, 8.09ha	5*3*2
ST-02	NE of Emerald Industries, 8.09ha	5*3*2
ST-03	E of Emerald Industries, 8.09ha	5*3*2
ST-04	SE of Emerald Industries, 8.09ha	5*3*2
ST-05	S of Emerald Industries, 8.09ha	5*3*2
ST-06	SW of Emerald Industries, 8.09ha	5*3*2
ST-07	S of Emerald Industries, 8.09ha	5*3*2
ST-13	N of Emerald Industries, 8.09ha	5*3*2
ST-08	SW of Emerald Industries, 8.09ha	5*3*2
ST-09	SW of Emerald Industries, 2.44ha	5*3*2
ST-10	W of Emerald Industries, 8.09ha	5*3*2
ST-11	W of Emerald Industries, 8.09ha	5*3*2

ST-12	N of Emerald Industries, 8.09ha	5*3*2
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- Regular removal of settled silt from the settling tank is recommended.
- Construction of garland drain covering hillocky portion of the cluster with retaining wall is essentially required to prevent any silt containing flow of mine discharge.
- Cluster lease area is hillocky type, mine discharge/runoff of the same may be diverted to collection tanks, which should be constructed according to contour profile. The same water may be pumped to the seasonal nalla which carry the drainage of the area in monsoon season located in south direction of the cluster.
- Early exhaustion of one of small quarry is recommended so that water body may be created and later on all the drain and may be connected to the proposed water body, which may be helpful not only recharging purposes but for supply of water to villagers, for dust suppression at crusher area and for nearby beneficiation plant also.

Land Environment and Solid Waste Management

The original topography of the area has already affected due to the continual operation. Topographically of applied area is of undulating and part of it having hillock having general slope towards south and north direction. It has been observed that 11.50ha area of said cluster in totality has already been excavated during past mining. The total excavated area of cluster shall be 19.20 ha and about 12.0ha area will be reclaimed by water harvesting. No backfilling is proposed and the waste and blanket material is being used for road construction and maintenance. It is proposed to develop green belt over 1.5ha within the core zone of cluster during the mine life. The cumulative excavated area of 12 ha shall be developed as water body. Hence the land use pattern of lease area i.e. core zone will be changed during course of mining. However no change in land use of buffer zone is expected

Any forest growth has not been observed in quarry area. Lessee has already been developed the 10.0ha (inside and outside of the ML area) through afforestation. Weathered formation/mine waste will be used for road maintenance and reclamation purpose.

Measures observed and suggested for the project are:

- Retaining wall at the downside of hillock is proposed, which help to prevent the flow of boulder to the agricultural field of village. The elongation of retaining wall around the hill is also proposed.

Plantation

A stage-wise comprehensive afforestation program has been proposed by the PP. The budget reserved for the plantation is Rs 335000 per year.

Detailed CSR program was presented by the PP. The annual budget for the same is proposed to be Rs 250000.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 392080 cum / Year.

2. Maximum depth of pits shall be restricted up to 10 meters.
3. Water shed management shall be carried out in the region so as to feed water bodies proposed to be developed at the end of mining.
4. Possibility shall be explored with concerned authorities to take up additional plantation on the nearby hillocks.

2. Case No. 1379/2013 M/s Emerald Industries Ltd., Gyan Ganga, Nadi Gate, Jayendraganj, Lashkar, Gwalior- 474 009 ToR issued on 29-06-13 by SEAC. EMP Presentation based on the TOR prescribed by SEAC Proposed 02.44 Hectare B.T. Metal mine at Vill.- Sumerpada, Teh.-Morar, Dist.-Gwalior (M.P.)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Survey No. 169 (2.44 Hectare) Village Sumerpada, Gwalior in **2.44 ha**. It was reported by the PP that within a radius of 500 meters around this mine there are 03 more mines with cumulative lease area of 20.97 ha. All four mines are operational and owned by the same group of owners under the names of 04 different leasee. The quarries with lease area of 2.44 ha, 2.44 ha, 8 ha and 8.089 ha are operating for production of metal stone within 500 meter periphery from each other. Two quarries with lease area 8.0 Ha and 8.089 Ha have already obtained prior EC from MPSEIAA, whereas the other two quarries of 2.44 Ha each registered as Case no. 1241/2013 & 1379/2013 were considered in the earlier meetings of SEAC for necessary recommendations.

After scrutiny of the submissions and a field visit by SEAC it was decided to issue a TOR for both the projects to prepare a comprehensive EMP for the complete region considering all the 04 mines. It was observed that the EMP for the larger mines has already been approved by the SEAC/ SEIAA hence SEAC suggested the PP to extend the EMP encompassing all the 04 mines. Accordingly a TOR was issued. The EMP submitted by the PP was presented by the PP and their consultant. The presentation and submission made by the PP reveals following:

The quarry area was granted to M/s Emerald Industries Ltd, Gwalior in the year 2007 for period of 10 year from 14.12.2007 to 13.12.2017. The lessee has already obtained consent to operate MPPCB, Gwalior for production capacity of 300000 m³. Present proposal for capacity expansion from 3,00,000 m³ to 400000 m³ per year.

Salient features of the project:

Mining Lease Area	2.44 ha
Mineable Area	2.44 ha
Existing Pits & Quarries	1.0 ha
Area of pit at the end of conceptual period	2.1 ha
Method of mining	Semi-mechanised
Present Depth of Mining	8mbgl
Ultimate depth of mining	10mbgl
Lease Period	
Soil thickness	
Minimum	0.5m
Maximum	1.5m
Existing mode to transportation	Road
Area to be covered under plantation by conceptual period	0.25ha
Area to covered under water reservoir	1.0ha
Nearest National/ state Highway	Kalpi road 2.60km
Nearest Railway Station	Gwalior 19.0km
Nearest Airport	Gwalior 13.25km

Nearest Tourist Place within 10km radius	None within 10km radius
Archaeological Important Place within 10km radius.	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None within 10km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	None within 10km radius
Nearest major city with 100000 population within 10km radius	None within 10km radius
Nearest Town/ City within 10km radius	None within 10km radius
Nearest Hill Ranges	None within 10km radius
Nearest Village (km)	Chandrapura 0.75- SSE Turakpura 0.75 ó SW Sumerpura 0.60- NW
Nearest River	Vaishali Nadi 1.35km ó E Morar Nadi 6.75km - W
Nearest Nalla/pond/ water reservoir	Nalla 0.2km-S Nalla 0.4km - SSE

Crusher is not proposed in the lease area.

EMP implemented / proposed – The EMP for this project is covered under the comprehensive EMP detailed in the Case no. 1241/2013.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 392080 cum / Year.
2. Maximum depth of pits shall be restricted up to 10 meters.
3. Water shed management shall be carried out in the region so as to feed water bodies proposed to be developed at the end of mining.
4. Possibility shall be explored with concerned authorities to take up additional plantation on the nearby hillocks.

3. Case No. 1469/2013 Shri. Anil Yadav, S/o Shri Asharam Yadav, Near to Santoshi Mata Mandir, Indore Road, District Khandwa (M.P.) (PP has submitted approved mining plan, letter of Mining Officer regarding distance of other mines & EMP through SEIAA) Proposed 1.90 ha Dhorani Road Metal & Murrum Quarry at Village-Dhorani, Tehsil & Dist. Khandwa (M.P.).

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Dhorani, Tehsil & Dist. Khandwa (M.P.) in **1.90 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. 11088 dated: 04/09/2014 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total lease area of 2.0 Ha.

The EMS 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 in addition to the standard conditions at annexure -Aø

1. As crusher is not proposed in the lease area the same shall not be allowed for installation in the mine lease area.
2. Production of stone boulder shall be as per the approved mining plan not exceeding 5700 cum / Year.

- 4. Case No.- - 2443/2015 Shri Rahul Sharma S/o Shri Rajendra Sharma, Bhojpur, Teh-Khilchipur, Rajgarh (M.P.) (submission of revised Mining Plan through SEIAA)**
Basalt Stone Quarry Lease Area - 1.00 ha., Capacity-9,000 cum/year) at Vill.-Motipura, Th.--Khilchipur, Dist-Rajgarh (M.P.)

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 after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

- 5. Case No. 2987/2015 Shri Sadik Khan, Sala, Post-Khalghaat, Khargone (MP)-451228** Prior Environment Clearance for approval of Balkhand Murrum Deposit in an area of 2.00 ha. (5,100 cum/year) at Village-Balkhad, Tehsil-Kasrawad, District-Khargone.

This is a case of mining of *Murrum*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Balkhad, Tehsil-Kasrawad, District-Khargone (M.P.) in 2.0 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. 1491 dated 20/03/2015 has reported that there is no mine operating or proposed within 500 meters around the said mine.

The EMS 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 in addition to the standard conditions at annexure -Aø

1. Production of Murrum shall be as per the approved mining plan not exceeding 5100 cum / Year.

- 6. Case No. – 2612/2015 Shri Trilok Singh S/o Shri Chander Singh, Village & Post-Mugli, Teh.-Ashta (M.P.)-466116** Stone Quarry Lease Area - 2.00 ha., Capacity - 8,550 cum/year, at Village-Malikhedi, Teh.-Ashta, Distt. Sehore (M.P.)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Malikhedi, Teh.-Ashta, Distt. Sehore (M.P.) in 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. 1028 dated: 16/04/2015 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total lease area of 6.20 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 8550 cum / Year.

7. Case No. – 2753/2015 Shri Sundarlal Jaiswal S/o Shri Harinarayan Jaiswal, Patidar Mandir Ke Pass, Kanood Road, Sehore (MP)-466116 Basalt Stone Quarry Lease Area - 3.00 ha., Capacity - 8,550 cum/year, at Khasra No. 6 24/1/1/ka, Village-Malikhedi, Tehsil-Ashta, District-Sehore (M.P.)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 6 24/1/1/ka, Village-Malikhedi, Tehsil-Ashta, District-Sehore in **3.00 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. 1250 dated: 28/04/2015 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total lease area of 6.20 Ha. As per the certificate issued by the Tehsildar there is a school at 450 meters from the project boundary.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 8550 cum / Year.
2. Crusher is not proposed in the lease area and shall not be allowed in the lease area.
3. Any plant in the lease area shall not be up-rooted.
4. Barrier wall of at least 3 meters shall be constructed on the boundary facing the school.
5. Controlled blasting shall be carried out in presence of experts only.
6. No blasting will be carried out during School hours.

8. Case No. – 2921/2015 Shri Raj Kumar Nema, OIC, Sub Off., M.P. State Mining Corporation Ltd., H.No. 12, Ward No. 17, Sainath Colony, Meenakshi, Hoshangabad (M.P.)-461001 Gujarwada River Sand Quarry Lease Area - 20.200 Ha., Capacity - 4,50,000 cum/year, at Vill.-Gujarwada, Teh.-Babai, District-Hoshangabad (M.P.)

This is a case of mining of River Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Vill.-Gujarwada, Teh.-Babai, District-

Hoshangabad (M.P.) in **20.200 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. 2490 dated: 15/06/2015 has reported that there is no mine operating or proposed within 1000 meters around the said mine. Another certificate furnished with other sand mining project reveals that there is one more mine within 1000 meters from the periphery of this mine; hence it was decided by the committee to clarify the matter with the concerned Mining Officer before any decision.

- 9. Case No. – 3110/2015 Shri Satish Jat S/o Shri Ramesh Jat, 65, Saravsuidh Nagar, Bicholi Road, Behind Jwala Mata Mandir, Indore (M.P.)-452016 Crusher Stone Quarry Lease Area - 3.00 Capacity - 18,000 cum/year, at Village-Matlabpura, Tehsil-Mhow, District-Indore (M.P.)**

The case has been appraised on the basis of EMP. The co-ordinates mentioned in the Mining Plan appear to be incorrect hence the same has to be re-checked and submitted after due validation from the Mining Department.

- 10. Case No. 3111/2015- Shri Bramhaswaroop S/o Shri Suresh Agrawal, D-101, Nilgiri Apartment, Kalindi Midtown, Indore (MP)-452007 Basalt Stone & Murrum Quarry Lease Area - 3.90 Capacity - Basalt Stone-15,574 & Murrum-14,421 Quarry cum/year, at Village-Sagdod, Tehsil-Depalpur, District-Indore**

This is a case of mining of *Basalt Stone and Murrum Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Sagdod, Tehsil-Depalpur, District-Indore (M.P.) in **3.90 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. 11088 dated: 04/09/2014 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine the total lease area being 15.32 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 15574 m³ / Year and Murrum not exceeding 14421 m³/Year.

- 11. Case No. 3112/2015 Shri Bramhaswaroop S/o Shri Suresh Agrawal, D-101, Nilgiri Apartment, Kalindi Midtown, Indore (MP)-452007 Prior Environment Clearance for approval of Basalt Stone & Murrum Quarry in an area of 1.950 ha. (Basalt Stone-20,326 & Murrum-4,432 Quarry cum/year) at Village-Sejwani, Tehsil-Depalpur, District-Indore (MP).**

This is a case of mining of *Basalt Stone and Murrum Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Sejwani, Tehsil-Depalpur, District-Indore (MP)* in **1.950 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. 543 dated: 21/05/2015 has reported that there are 11 more mines operating or proposed within 500 meters around the said mine the total lease area being 22.866 Ha.

The EMS 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 in addition to the standard conditions at annexure -Aø

1. Production of stone boulder shall be as per the approved mining plan not exceeding 20326 m³ / Year and Murrum not exceeding 4432 m³/Year.
2. Maximum depth of the pits shall not exceed 6.0 meters.
3. Barrier wall of at least 3 meters height shall be constructed on the boundary facing the industry (existing flour mill) reported at about 500 meters from the project boundary.

12. Case No. – 3115/2015 Shri Mahesh S/o Shri Ramsingh Choudhary, 363, Gandhi Nagar, Dudhiya, Indore (M.P.)-452007 Basalt Stone & Murrum Quarry Lease Area - 3.52 Capacity - 15,604 cum/year, at Village-Sagdod, Tehsil-Depalpur, District-Indore (M.P.)

This is a case of mining of *Basalt Stone and Murrum Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Sagdod, Tehsil-Depalpur, District-Indore (M.P.)* in **3.52 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. 408 dated: 13/04/2015 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine the total lease area being 11.420 Ha.

The EMS 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 in addition to the standard conditions at annexure -Aø

1. Production of stone boulder shall be as per the approved mining plan not exceeding 15604 m³ / Year and Murrum not exceeding 10430 m³/Year.

13. Case No. – 3132/2015 Shri Purushottam S/o Shri Pratapdas Swami, 65, Sarve Suvidha Nagar, Bicholi Road, Jwala Mata Mandir Ke Piche, Indore Basalt Stone & Murrum Quarry Lease Area - 1.62 Capacity - Stone-7,581 & Murrum-1,083 cum/year, at Village-Sendal, Tehsil-Mhow, District-Indore (M.P.)

This is a case of mining of *Basalt Stone and Murrum Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Sendal, Tehsil-Mhow, District-Indore (M.P.)* in **1.62 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. 469

dated: 23/04/2015 has reported that there is no mine operating or proposed within 500 meters around the said mine.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 7581 m³ / Year and Murrum not exceeding 1083 m³/Year.
2. Garland drain and check dam shall be constructed with appropriate settling tank towards the river side observed on Google image at about 250 meters, to prevent any run-offs from the project site in to the water body.

14. Case No. – 3136/2015 Shri Radheshyam Dhakad S/o Shri Antarsingh Dhakad, Village-Rogliya, Tehsil & District-Dhar (M.P.)-454773 Basalt Stone & Murrum Quarry Lease Area - 2.00 Capacity - Stone-14,440 & Murrum-2,888 cum/year, at Village-Rangwasa, Tehsil-Depalpur, District-Indore (M.P.)

This is a case of mining of *Basalt Stone and Murrum Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Rangwasa, Tehsil-Depalpur, District-Indore (M.P.)* in **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. 479 dated: 25/04/2015 has reported that there are 06 more mines operating or proposed within 500 meters around the said mine the total lease area being 23.940 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 14440 m³ / Year and Murrum not exceeding 2888 m³/Year.

15. Case No. – 3151/2015 Shri Karan Singh S/o Shri Prem Singh, Village-Narbe, Tehsil-Biaora, District-Rajgarh (M.P.)-465674 Seelkheda River Sand Quarry Lease Area - 23.702 Capacity - 4,210 cum/year, at Village-Seelkheda, Tehsil-Biaora, Dist-Rajgarh (M.P.)

It was reported by the members that they have not received the copy of project details in advance hence the case could not be appraised in the meeting. It was decided to defer the case for consideration in forthcoming meetings of SEAC.

16. Case No. – 3152/2015 Shri Arjun Singh S/o Shri Chain Singh, Village-Barkhedi Jagir, Tehsil-Biaora, District-Rajgarh (M.P.)-465674 Jetpura River Sand Quarry Lease Area - 6.611 Capacity - 340 cum/year, at Village-Jetpura, Tehsil-Biaora, Dist-Rajgarh (M.P.)

It was reported by the members that they have not received the copy of project details in advance hence the case could not be appraised in the meeting. It was decided to defer the case for consideration in forthcoming meetings of SEAC.

- 17. Case No. – 3153/2015 Shri Om Babu S/o Shri Rameshwar, Village-Padligusai, Tehsil-Biaora, Rajgarh (M.P.)-465689** River Sand Quarry Lease Area - 24.00 Capacity - 1,110 cum/year, at Village-Shekhanpur, Tehsil-Biaora, Dist-Rajgarh (M.P.)

It was reported by the members that they have not received the copy of project details in advance hence the case could not be appraised in the meeting. It was decided to defer the case for consideration in forthcoming meetings of SEAC.

- 18. Case No. 3163/2015 - Shri Jagdish Patidar S/o Shri Banshilal Patidar, Songra, Tehsil-Malhargarh, Mandsaur (MP)-458339** Prior Environment Clearance for approval of Stone/Murram Quarry in an area of 2.00 ha. (8,550 cum/year) at Village-Dodiyamina, Tehsil-Malhargarh, Mandsaur (MP)

This is a case of mining of *Basalt Stone and Murram Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Dodiyamina, Tehsil-Malhargarh, Mandsaur (MP) in **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. 583 dated: 10/04/2015 has reported that there are 07 more mines operating or proposed within 500 meters around the said mine the total lease area being 16.00 Ha.

Scrutiny of the documents reveals that there is over-writing in the copy of the certificate provided by the Tehsildar. Hence PP was asked to submit fresh copy of the same.

- 19. Case No. 3167/2015 Shri Rupendra Singh Tomar S/o Shri Kamal Singh Tomar, 25, Nimwadi, Shajapur (MP)-465331** Prior Environment Clearance for approval of Stone (Gitty) Quarry in an area of 2.00 ha. (10,000 cum/year) at Village-Barwal, Tehsil-Shajapur, District-Shajapur (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Barwal, Tehsil-Shajapur, District-Shajapur (M.P.) in **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. 363 dated: 20/03/2015 has reported that there are 03 more mines operating or proposed within 500 meters around the said mine the total lease area being 6.00 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 10000 m³ / Year.

20. Case No. 3168/2015 Shri Jaiprakash S/o Shri Krishndas Gilda, Patmagali Agar, Tehsil & District-Agar (MP) Prior Environment Clearance for approval of Jamli Stone Quarry in an area of 2.00 ha. (2,784 cum/year) at Village-Jamli, Tehsil-Barod, District-Agar (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Jamli, Tehsil-Barod, District-Agar (M.P.) in **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. 360 dated: 20/03/2015 has reported that there no mine operating or proposed within 500 meters around the said mine. Crusher is proposed in the lease area.

Scrutiny of the documents revealed that the co-ordinates of the lease area have not been given in the Mining Plan. Thus it was not possible to ascertain the exact location. However co-ordinates have been mentioned in the PFR report submitted by the PP, but these co-ordinates does not match with the co-ordinates presented by the PP in his deliberations. The case therefore was deferred by the committee till submission of factual data duly validated from Mining Department.

21. Case No. 3169/2015 Shri Tapas Kumawat S/o Shri Rajendra Kumawat, A-4, Siddharth Vihar, Ramtekri, Mandsaur (MP)-458001 Prior Environment Clearance for approval of Stone Quarry in an area of 4.00 ha. (25,000 cum/year) at Village-Dodiyamina, Tehsil-Malhargarh, District-Mandsaur (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Dodiyamina, Tehsil-Malhargarh, District-Mandsaur (M.P.) in **4.00 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. 740 dated: 18/03/2015 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine the total lease area being 8.00 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 25000 m³ / Year.
2. Crusher is not proposed in the lease area and the same shall not be allowed for installation in the lease area.

22. Case No. 3170/2015 Smt. Anita Farkya W/o Shri Nirmal Farkaya, Vijay Cold Centre, Mandsaur Road, Sitamu, Mandsaur (MP)-458990 Prior Environment Clearance for

approval of Stone Quarry in an area of 2.00 ha. (17,100 cum/year) at Village-Sitamau, Tehsil-Sitamau, District-Mandsaur (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Sitamau, Tehsil-Sitamau, District-Mandsaur (M.P.) in **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. 731 dated: 15/05/2015 has reported that there is no mine operating or proposed within 500 meters around the said mine.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of stone boulder shall be as per the approved mining plan not exceeding 17100 m³ / Year.
2. Crusher is not proposed in the lease area and the same shall not be allowed for installation in the lease area.

23. Case No. – 3172/2015 Shri Rakesh Rai S/o Shri Ramesh Rai, Ganesh Temple Road, Sehore (MP)-466001 Prior Environment Clearance for approval of Stone Quarry in an area of 0.405 ha. (3,000 cum/year) at Vill-Mahodiya, Tehsil-Sehore, District-Sehore (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Vill-Mahodiya, Tehsil-Sehore, District-Sehore (M.P.) in **0.405 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 Range Officer. Concerned Mining Officer vide letter no. 1102 dated: 22/04/2015 has reported that there 01 more mine operating or proposed within 500 meters around the said mine and the total lease area is 1.214 Ha.

Scrutiny of the documents revealed that the certificate regarding information on forest has been issued by the Range Officer; the same has to be endorsed by the concerned DFO and submitted.

24. Case No. 3173/15 Smt. Badami W/o Shri Tilak Singh, Pahlwan Singh Ka Pura, Moujha Pilua, Tehsil & District-Morena (MP)-476001 Prior Environment Clearance for approval of Stone Boulder Quarry in an area of 4.00 ha. (70,000 cum/year) at Village-Badwari, Tehsil-Morena, District-Morena (MP)

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Badwari, Tehsil-Morena, District-Morena (M.P.) in **4.00 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. 28 dated: 15/04/2015 has reported that there 01 more mine operating or proposed within 500 meters around the said mine and the total lease area is 6.60 Ha.

Scrutiny of the documents revealed that the copy of certificate issued by the Tehsildar is not clear hence a copy of fresh certificate has to be submitted.

25. Case No. 3174/2015. Smt. Shivani Pal W/o Shri Leela Kishan Pal, H.No. 171, Shri Krishna Enclave, Danish Nagar, Bhopal (MP)-464551 Prior Environment Clearance for approval of Soil Quarry in an area of 4.00 ha. (5,700 cum/year) at Village-Barukhar, Tehsil-Raisen, District-Raisen (MP)

This is a case of mining of *Soil Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Barukhar, Tehsil-Raisen, District-Raisen (M.P.) in **4.00 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. 762 dated: 27/08/2014 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total lease area of 6.206 Ha.

The EMS 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 in addition to the standard conditions at annexure -A

1. Production of soil shall be as per the approved mining plan not exceeding 5700 m³ / Year.

26. Case No.- 2516/2015 Shri Anup Tiwari S/o Shri Shyam Sunder Tiwari, Guard Line, Damoh (M.P.)-470772 Stone Boulder Mine Lease Area - **2.250 ha.**, Capacity- 27,470 cum/year, at Vill.-Jujharpura, Th.--Bakswaha, Dist-Chhatarpur (M.P.).

This is a case of mining of *Basalt Stone Quarry*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Vill.-Jujharpura, Th.--Bakswaha, Dist-Chhatarpur (M.P.) in **2.250 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 Range Officer. Concerned Mining Officer vide letter no. 1646 dated: 23/12/2014 has reported that there are 09 more mines operating or proposed within 500 meters around the said mine and the total lease area is 13.712 Ha.

Scrutiny of the documents revealed that the certificate regarding information on forest has been issued by the Range Officer; the same has to be endorsed by the concerned DFO and submitted along with the production schedule for the left out lease period.

27. Case No. – 3026/2015 Shri Sachin Agrawal, Partner, 48, Ramanand Nagar, Lalghati, Bhopal (M.P.)-462038 -proposed residential project "Alark Residency" at Khasra No.- 418, 420, 421, 423, 427 Vill.-Badwai, Teh.-Huzur, District-Bhopal (M.P.) Total Land Area- 4.530 Acre, Total Built up Area- 25221.516 Sq.mt. **For- Building Construction.**

The case has been carry forwarded from the 206th Meeting dated 21/07/2015. The case was deferred by the committee in the earlier meeting for want of a copy of application made to NBWL for WL Clearance. The project was reported to be within 10 Km from the Van Vihar National Park which is a notified PA. A copy of the requisite application was later submitted by the PP.

The project pertains to development of township in a plot area of 4.530 Acre with a total built-up area of 25221.516 m². By virtue of size of the project it falls under Category B-2, item 8 (a) of the schedule of the EIA Notification hence requires prior EC from SEIAA. Application for grant of EC was forwarded by SEIAA to SEAC for appraisal. The case was presented by the PP and their Architect in this meeting.

After deliberations PP was asked to submit response for the following queries:

1. Disposal plan for the excess treated waste water.
2. Details of rain-water harvesting plan with specifications of the same.
3. Details of the tertiary treatment of sewage. Back-wash from sand-filters and activated carbon-filter if provided will be put back to the STP for treatment. Proposal in this regard to be furnished.
4. Disposal plan for the STP sludge along with the revised line diagram depicting the concept of treatment and recycling / disposal of treated waste water and sludge.
5. It was observed that about 2.4 MT of MSW is expected to generate from the project during operational phase; storage area for the same so as to store the MSW for 48 hours to be provided with revised location on the lay out.
6. Details of the corpus fund for execution of the proposed EMP and STP O/M.

Meeting ended with thanks to the Chair and the Members.

[Dr. R.B. Lal, Chairman]

[K.P. Nyati, Member]

[Manohar K. Joshi, Member]

[Dr. Alok Mittal, Member]

[Dr. M.P. Singh, Member]

[Dr. U.R. Singh, Member]

[Dr. Mohini Saxena, Member]

[A.P. Srivastava, Member]

[A.A. Mishra, Secretary]

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. 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.

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 tarpoline 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. Mining should be avoided during Monsoon.
 10. No in-stream mining shall be allowed.
 11. 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.
 12. Established water conveyance channels should not be relocated, straightened, or modified.
 13. 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.
 14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
 15. PP shall take Socio-economic activities in the region through the Gram Panchayat.
 16. EC will be valid for mine lease period subject to a ceiling of 5 years.
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