

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

The 149<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 5<sup>th</sup> September, 2014 under the Chairmanship of Dr. R. B. Lal. The following members attended the meeting-

1. Dr. MohiniSaxena, Member
2. Shri K.P. Nyati, Member
3. Shri A.P. Srivastava, Member
4. Shri M.P. Singh, Member
5. Shri Manoj Pradhan, Member
6. Shri Manohar K. Joshi, Member
7. Shri Ram Krishna Maheshwari, Member
8. Dr. Alok Mittal, Member
9. Shri A.A. Mishra, Secretary

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

### Discussion and decision taken on miscellaneous issues:

- A. Minutes of the 148<sup>th</sup> SEAC Meeting dated 25/08/2014 were discussed, and finalized in the meeting.
- B. Mining projects of Minor Minerals in lease area of less than 5.0 hectare ó It was brought to the notice of the committee that about 281 cases of mining projects of minor minerals with lease area of less than 5 hectare are with SEAC as the proponents of these cases have either not responded to the call for meeting or they have not submitted the query response / requisite information. Now in light of revised guidelines of SEIAA and that of MoEF these projects are required to submit approved mine plan, verification of the mining area within 500 meters around the proposed mining site (s) hence it was decided to write to all the project proponents of such mining projects to submit the above documents and EMS with one month time.
- C. It was also brought to the notice of the committee that about 20 cases of Marble / Granite projects in lease area of less than 5 hectare have been scrutinized and TOR has been approved for these projects to carry out EIA / EMP. Marble and Granite although included in the schedule of minor mineral rules, these cannot be treated as B-2 cases hence TOR of all such cases which are kept on hold for clarification of policy may be issued.

### Deliberations:

1. **Case No. – 1712/2013 Shri Sunny Gaur, M.D. M/s Jaiprakash Associates Ltd., Sector 128, Noida (U.P)- 201304- Jaypee Bela Coal Beneficiation Plant Lease Area – 2.250 ha., Capacity – 0.95 MTPA (In the premises of existing Jaypee Bela Cement Plant at Bela) at Khasra No. – 637, 650, 653/2/1, 127 Village – Bela, Tehsil – Huzur, Distt. - Rewa( M.P.)- EIA Presentation. TOR issued vide L.No. 726 dated 11/10/2013 in 140<sup>th</sup> meeting. **Env. Consultant: Vimta Lab.****

The project pertains to Coal Washery within existing premises of Cement Industry. Proposed production capacity is 0.95 MTPA throughput of coal. The project is covered as item no. 2(a) category B. TOR was issued vide latter dated 11/10/2013. EIA report with Public Hearing and other documents was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. PP and his

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consultant presented the EIA and relevant aspects of the project. After deliberations PP was asked to submit reply to the following queries of the committee at the earliest for further necessary action in the matter:

1. Compliances of the conditions of CTO of Cement Industry and the CPP-I & II to be submitted after due validation of the same from the M.P. Pollution Control Board.
2. Copy of the EC granted to Mines of limestone to be furnished to verify the locations of exhausted mine-pits and availability of water in these pits for the coal washery.
3. Justification has to be provided for using Heavy Media Cyclone in the process.
4. Magnetite balance has not been furnished in the EIA report, the same has to be furnished.
5. Percentage moisture in clean coal & that in the rejects to be furnished along with the water balance.
6. Reject is proposed to be used in CPPs has it been consented in the consents of MPPCB and other environmental clearances.
7. Clarification to be submitted for the non-compliance of EC conditions as reported by MoEF in its site inspection report:
  - Green area development shows discrepancies in the reports submitted to MoEF.- Clarification needed.
  - Roof water harvesting not done.
  - Fly-ash utilization reported in CREP differs from that reported in compliance report.
8. Management of ACF rejects not addressed in HW.
9. Details of CER Policy and Env, Cell not provided.
10. On-site plan appears to be old, what is the extent of coverage of the plan.

The case shall be considered after receiving query response from PP along with the site inspection report received from MoEF.

**2. Case No. – 714/2013 – Shri D.M. Nimje, Dy. General Manager (Operations) Indian Oil Corporation, M.P. State Office, 16, Arera Hills, Jail Road, Bhopal (M.P.) – 462011 Construction of additional tankage for MS & ATF and Tank Truck Loading Facility at existing IOCL terminal at Bangrod, District Ratlam. - EIA Presentation**

TOR issued vide L.No. 616 dated 25/09/2012 in 98<sup>th</sup> meeting.

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. However, a request from PP was received for considering the case in next meeting. Committee decided to call the PP in next meeting as per turn.

**3. Case No. 70/2008 - M/s Ismail & Sons, Mission Chowk, Katni (M.P.) . Enhancement of Prod. Capacity from 8089 TPA to 60,000TPA for Bistara Limestone Mine 10.748 Ha, at Village Bistara, Teh. Murwara, Distt. Katni (M.P) EIA Presentation.**

(TOR issued vide L.No. 317 dated 07/08/2008, Revised TOR issued 37 SEAC Meeting dated 22/10/09, Extended TOR issued (109) Meeting dated 06/11/12, Env. Consultant: M/s J.M. Enviro Net Pvt. Ltd.Gurgaon (Haryana)

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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. However, a request from PP was received for considering the case in next meeting. Committee decided to call the PP in next meeting as per turn.

- 4. Case No. 886/2012 - Shri Nivedan Bhardwaj, M.D., M/s Fortune Stones Ltd. 11, Bungalow No. – 2, Lokanathpurm, Sagar Road, Distt. -Chhatarpur (M.P.) – 471001 For - EIA Presentation. - Expansion of Katahara Granite Quarry at Khasra No. – 901, Village – Katahara, Tehsil – Lovekush Nagar, Distt. – Chhatarpur (M.P.) Lease Area – 21.736 ha. Capacity – 40,000 Cu. Meter Per Year (Existing Capa. – 10000 Cubic meter per year)**  
TOR issued vide L.No. 598 dated 30/07/2013  
**Env. Consultant: M/s Creative Enviro Services, Bhopal (MP)**

## Background of project:

Existing capacity	10,000 cum per annum
Proposed Capacity	40,000 cum per annum
Promoters of the Project	M/s Fortune Stones Ltd., A Joint Venture with M. P. State Mining Corporation Ltd.) Opposite Agriculture Office, 1 <sup>st</sup> floor, Vishwanath Road, Chhatarpur, MP
Location of Project	Village- Kathara Tehsil- Lovekush Nagar, Dist Chhatarpur (MP)
Occupancy of land	Govt. denuded protected forest land
Lease Period	20 Year from 04-07-2008
Environmental clearance	248/EPPCO-SEIAA/10 dated 22/7/2010
Altitude of Site	296-212 AMSL
Village	Kathara
Tehsil	Lovekush Nagar
District	Chhatarpur
Latitude	25 <sup>o</sup> 04'1.7" to 25 <sup>o</sup> 05'10.64" North
Longitude	80 <sup>o</sup> 00'15.03" to 80 <sup>o</sup> 00'37.8" East
Co-Ordinate	1. 25 <sup>o</sup> 04'1.7" - 80 <sup>o</sup> 00'33.5" 2. 25 <sup>o</sup> 04'5.19" - 80 <sup>o</sup> 00'18.15" 3. 25 <sup>o</sup> 05'09.30" - 80 <sup>o</sup> 00'15.03" 4. 25 <sup>o</sup> 05'10.11" - 80 <sup>o</sup> 00'27.6"
General Ground Level	230m
Nearest National/state Highway	Bagmau- Bacchan PWD Road - 0.2km - N
Nearest Railway Station	Khajuraho - 35.0 km
Nearest Airport	Khajuraho - 35.0 km
Nearest Tourist Place within 10km radius.	None within 10km radius

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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)	Silpatpura PF - S - 0.2km Lauri PF - N - 6.5km Gurha PF - NNE - 7.0km

**Environmental setting of the project**

Nearest major city with 100000 population within 10km radius	Nil
Nearest Town / City within 10km radius	Lovekush Nagar - 5.0km
Nearest Village	Kathara - NE - 0.2 km
Nearest River	Urmal Nadi - SW - 4.40km
Nearest Nalla	Mahan Nalla - SSE - 6.5km Mudiha Ghat Nalla - SE - 1.5km Khamuwah Nalla - E - 4.5km Sangalri Nalla - SSE - 7.5km Jamnyahi Nalla - EEN- 9.0km Gohal Nalla - EEN- 9.0km Basaha Nalla - NNE - 4.5km Man Sagar - N - 5.0km Local Pond - N - 0.2km
Nearest Hill Ranges	None within 10km radius
Other quarries within 10km radius	10 quarry Kathara ó 02 (M/s Fortune Stone Ltd.) Silpatpura ó 07 (M/s S.B. Granite-02, Granite India ó 02, Manvendra Singh-01, Kisan minerals-01) Marwa ó 01
Industry within 10km radius	None within 10km radius

**Salient feature of the mine**

Type of Mine	Open Cast
Mining Lease Area	21.736 ha
Mineable Area	20.75 ha
Existing Pits & Quarries	16.80 ha
Existing Dumps	1.80 ha
Plantation	0.1 ha
Recoverable Reserve	588779 cubic meter
Method of mining	Fully mechanised
Ultimate Depth of Mining	27m (185mRL)
Ultimate Pit Slope	60°

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Expected Life of Mines	15 years
Lease Period	20 year upto 2028
Stripping Ratio	1:7.3
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	nil
Area covered under pit in conceptual period	20.75 ha
Area to be reclaimed by conceptual period	20.75 ha
Area to be covered under plantation by conceptual period	21.736ha
Area to covered under water reservoir	Nil
Surface mRL	212mRL
Ground water table	
Monsoon period	32m bgl (180mRL)
Dry month	34m bgl (178mRL)

**Public Hearing** – Issues were discussed in length. It was reported that the Public consultation was conducted by MPPCB on 18.12.2013 at village Katahara, Tehsil Lovekush Nagar, Dist Chhatrapur (MP) for the subject project. Total 30 suggestion/comments have been received during the public hearing. The public opinion in general was in favour of the project.

**Conceptual plan**

Items	Existing	Conceptual Period
Total lease area	21.736ha	
Ultimate depth of mining	2-3m above ground level	27m bgl
Ultimate pit slope	60 degree	60degree
Area under dumps	1.80ha	Nil
Area under pits	16.80ha	20.75 ha
Area to be reclaimed	Nil	20.75 ha
Infrastructure & Road	0.30 ha	0.30 ha
Mineral storage	Nil	Nil
Plantation	0.1ha	21.736 ha
Water body	0.5ha	Nil

**Mining method:**

It was reported that, opencast mechanical method of mining is being carried out and same will be continue. The overburden formed and accumulated to be removed by excavator and tipper and dumped in the dumping yard. Mining of granite with drilling & blasting with a very little charge just to spilt out. Generally in a granite bench a block of granite with 2m width X 2m length X 1.5m height will be selected. Loading of the block of granite will be done by mobile crane and Loading of overburden will be hauled by loader cum dumper combination.

**Air pollution control measures**

The subject lease in continuation with another lease of 6.0ha and the predicted value reveals that the maximum incremental short term 24 hourly ground level concentrations of particulates is 3.18mg/m<sup>3</sup>. Following measures has been taken to mitigate the effect mining operation over ambient air environment:

- Spraying of water is being done on the haulage roads, services road & dump area and frequency of the spraying over haulage road is required to increase, after capacity expansion.

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- É Dumping has been done in north-west and south direction away from the habitation of the villages. The dumps are surrounded by the agricultural fields. To prevent the fugitive emission during windy days, the process of stabilization need to be fastens. Regular water spraying over the dumps (once in a day) is proposed.
- É Old dumps have been temporary stabilized with legumes and grasses to prevent the erosion of soil and to arrest the dust emission during windy days. Over burden dumps will not be left active for longer period and will be used for reclamation purposes.
- É Dust mask have been provided to all workers, and use shall be made compulsory.

## Water pollution control measures

There is no water course in the lease area. The main drainage of the area is through seasonal Nalla, which is in south west at 100m distance. The water table in the quarry area varies from 32m to 34m, whereas mining will be done up to avg. 27m depth thus ground water table will be not touched during conceptual period.

Following measures has been observed to control the water pollution:

- “ Garland drain along the waste dumps having depth & length of as 0.50m and 1000m respectively.
- “ Garland drain at slop of hill along the village side having length & depth as approx 1000m and 2.5m.
- “ By providing drain around hill slope and along the dump, the impact of silt flow toward the agricultural field and village pond is prevented.
- “ Pump has been installed to lift accumulated rain water from working pit.

Further measures have been proposed considering the capacity expansion project for both lease are i.e. 21.736ha & 6.0ha:

- “ Regular removal of settled silt from the settling tank
- “ Construction of RCC dyke for keeping of oil & grease drums near to the mine office
- “ Construction of garland drain covering entire hillock (all around) with retaining wall is essentially required to prevent any silt containing flow of mine discharge .
- “ Construction of earthen settling tank in accordance with the contour profile of the area and network of drains should be connected to these tanks. The accumulated water may be used for dust suppression purposes also, winch will help us to reduce the ground water use being used by the wells (6 no.) at present.
- “ Regular cleaning and deepening of pond is highly recommended to avoid any social issues.
- “ The overburden dumps have been observed outside of the lease area on owned land. All the dumps (7 in no.) are surrounded by the agricultural land and farming activities is being observed. It is recommended to construct garland drains around each dumps and should be connected to settling tanks and not should be left open ended. The accumulated water should be given to farmers whose land are located nearby the dump area.
- “ Since area is high hillock, mine discharge/runoff may be diverted to collection tanks, which should be constructed according to contour profile. The same water may be pumped to the pond (02 in number) which located at foot of the hillock adjacent to lease area. The clear water will help to raise the table of pond which is being used by the villagers throughout the year.

## Solid waste management

- It was reported that, during the life of mine total 20.75 ha areas will be excavated and same will be reclaimed by using mine waste & OB. It is proposed to develop green belt over 21.736ha during the mine life. Presently 1.80ha (inside the ML) and 3.0 ha (outside the ML) area are covered under inactive dumps. 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

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- It is estimated that 180000 cubic meter weathered granite and cavity filled with murrum and clay has been generated, which has been stacked as dump at inside and outside of the quarry area. During the conceptual period, about 2355115 m<sup>3</sup> mine waste will generate and same will be dumped at outside of the quarry area.
- Any forest growth has not been observed in quarry area. Lessee has already developed the 125ha land through afforestation. It is proposed to backfill the excavated pit followed by afforestation. Reclamation will start only after the full thickness of granite will be mined out. Weathered granite/mine waste will be used for backfilling and reclamation purpose.

**Measures observed and suggested for the project are:**

- É Early stabilization of all new dumps placed outside of the lease area
- É Retaining wall at the downside of hillock has been observed, which help to prevent the flow of boulder to the agricultural field of village. The elongation of retaining wall around the hill is suggested
- É Proper slope and benches with retaining wall for the dumps located outside to the lease area is suggested to prevent spillage of waste to agricultural land.

**Socio-economic measures and CSR & budget:**

Existing Activity	Exp. Incurred
Samuhik Kanya Vivah : year 2009	Rs. 1,48,593.00
Deeping of local pond (Kathara)	Rs. 2,5000.00
Free Medical Camp (Eye & Dental check-up), Lovekush nagar ó 26.12.2011	Rs. 50,000.00
Making of Hospital Building (Kathara)	Rs. 2,00,000.00
Provision of Doctor and Compounder in Hospital (Kathara). This service is being provided since 1998 and will continue further. Apart from this service, we provide Rs. 10,000/- worth Medicines per month at free of cost to the villagers.	Rs. 1,80,000.00 per year
Local Area Development Fund	Rs. 8,00,00,000.00
Free drinking water supply facility for nearby village by Tanker	Rs. 1,00,000.00

Following are further benefits that are proposed by the project proponent for the development of surrounding village communities identifying need and planning sustainability for long termsø impact:

- É Institution of scholarship and prizes;
- É Supporting adult education programs.
- É Vocational course and training to local Youth
- É Training programmes to promote the work of people engaged in Stone carving and utilizing stones in householdsøasset building
- É The project proponent can promote Environment Education & Awareness programmes to bridge the gap about the level of understanding of Biodiversity and its conservation
- É There can be some provisions too, to promote øCommunity Go Greenø concept by incorporating various saplings roadside area used for the transportation sequentially.

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After deliberations committee has asked the PP for the following:

- Point-wise compliance of the FC to be furnished.
- The hydro-geological study conducted earlier has to be reviewed and commented w.r.t. the water quality & water- table in the region.
- Mine is located on a hillock at about 70-80 meters from the ground level and the habitation is reported in foot of the hillock; in view of the same dust management plan to be furnished.
- Two mines of the same proponent are located adjacent to each other hence cumulative impact in terms of GLC of PM to be submitted.
- It was informed by the PP that Regional Office MoEF Bhopal has inspected the site, the visit report of MoEF has to be placed before the committee.

## Mining Projects of Minor Mineral with MLA of less than 5 Ha.

**5. Case No. – 1604/2013 M/s Smt. Gulab Rani Patel, R/o Chandla, Tehsil – Chandla, Distt. – Chhatarpur (M.P.)-** *M/s Siddha Guru Patel Stone Crusher Smt. Gulab Rani Patel, Lease Area – 4.00 ha. at Survey No.- 762 Village – Vishna Kheda, Tehsil – Chandla, Distt. – Chhatarpur (M.P.) Capacity – 40,000 Cubic Meter Year, Lease Period – 10 Year.* Abs. 134 Meeting dt. 03/06/13.

This is a mining project of minor mineral with lease area of less than 5 ha. (4.0Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny of the case reveals that PP has to submit mining plan, EMS and certification from Mining Officer regarding other mines with 500 meters around the proposed mine site. Thus it was decided by the committee that the PP may be asked to submit following:

- Copy of approved Mining Plan.
- EMP and
- Letter from Mining Officer indicating total no. of mines within 500 meters around the proposed site with their lease area and other details.

The above information shall be submitted within 1 month as decided in the 148<sup>th</sup> meeting dated 25/08/2014.

**6. Case No. 1172/2013 M/s Rudra Stone Crusher, Vill. – Kubra, Post – Kubra, Tehsil – Jaisinghnagar, Distt. – Shahdol (M.P.)** *Rudra Stone Crusher, Lease Area – 2.40 Ha., at Khasra No. – 180/1, Village – Lakhnauti, Tehsil – Jaisinghnagar, Distt. – Shahdol (M.P.) Capacity – 10,000 Cu.mts per year., Lease Period – 10Year.* Abs. 121 Meeting dt. 28/02/13 & 124 dt. 13/03/13.

This is a mining project of minor mineral with lease area of less than 5 ha. (2.4Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny of the case reveals that PP has to submit mining plan, EMS and certification from Mining Officer regarding other mines with 500 meters around the proposed mine site. Thus it was decided by the committee that the PP may be asked to submit following:

- Copy of approved Mining Plan.
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3. Letter from Mining Officer indicating total no. of mines within 500 meters around the proposed site with their lease area and other details.

The above information shall be submitted within 1 month as decided in the 148<sup>th</sup> meeting dated 25/08/2014.

**7. Case No. 1441/2013 – Shri Moti Singh Karara S/o Sh. Bheru Singh Karara, Village-Shadipura, P.O. – Dudhana, Tehsil – Mo. Barodia, Distt. - Shajapur, (M.P.)- 465226 - Stone Mine Lease Area – 1.0 Ha. at Khasra No. – 16, Village – Sadankheri, Tehsil –Mo. Barodiya, Distt. – Shajapur (M.P.). Capacity – 1,000 Cubic Meter Per Year, Lease Period - 10 Year. Abs. 129 Meeting dt. 27/04/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (1.0 Ha). The project is covered as item 1(a) in the schedule of EIA notification. Letter from Mining Officer no. 535 dt 12/08/14 reveals that no mine exists within 500 meters around the proposed mine site.

As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny & presentation of the case reveals following:

Site	:	Village Sadankheri
Tehsil	:	Mo. Barodia
District	:	Shajapur
Area	:	1.0 Hectare
Khasra No.	:	16
Land Status	:	(Govt. land.)
Minerals to be Mined	:	Stone Mine
Proposed Capacity	:	1000 cum/year

### Location of the mine:

Geological location	23°34'57" N , 76°18'42" E
Nearest Town	Shajapur 630 km
Nearest City	Shajapur 630 km
Nearest Village	Sadankheri 2.0 km
Nearest River	None in 10 km radius
Habitation in Core Zone	None
Nearest Railway Station	Sarangpur - 16 km
National Park/ Heritage site	None in 10 km radius as per Parisit Form -I certified by DFO Shajapur.
Ecological Sensitive Zone	
Nearest Forest	

### Mining method

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Mining Method	Mining will be carried out by opencast method by using hand tools such as spades, hammer, Crowbar, Chisel and jack hammer. Occasionally, drilling & blasting will also be carried out, as required.
Blasting operation	Rarely to remove hard strata. Single row blasting.

## Propose EMP

### Air pollution control measures

Source	Control Measures
Truck Movement	Truck shall be covered with tarpaulin while transporting ore, enforcing speed limit. To reduce dust generation from the loading operation regular water spraying shall be done.
Waste Dumps	Terraced dumping and compaction water spraying in working area.
Haul Road	Compaction, gradation and drainage on both side proper maintenance of road. Water will be sprinkled at frequent intervals tanker mounted tractor.

### Proposed Water Pollution Control

- There will be no discharge of any water from the mine. The rain water collected in a sump shall be used for dust suppression.
- There will be no toxic constituents in water and soil, so the water collected in the sump is free from any toxic substance.
- To reduce suspended solids or dust coming to mine pits, garland drains shall be provided at the floor of the OB dumps.

### Top Soil Management

- No top soil is present in the area, the stone is found on the surface, which will excavate and sale out in market, therefore top soil management is not required.

### Socio-economic Benefits

- Employment shall be generated in various activity like mining, transportation, and other office working. Thus there a positive impact to the community is envisaged from mining.

### Budget for Environmental Management

S. N	Particular	Capital cost (Rs.)
1.	Dust suppression	2000.0
2	Environmental monitoring	2000.0
3	Green belt development	2,000.0
4	Others	2000.00
	Total	8,000.00

### CSR Activity:

Free health camps for nearby villagers once in year ó 5000/-

### Post Land use of Mine Pit

After full exploration of stone the pit shall be used as water reservoir , which will be used by animals for general purpose and use full for ground water recharging.

### Budget for Closer:

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

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Budget for closer of mine shall be 20,000/- .

Based on the submissions made by the PP the case was recommended for grant of prior EC subject to the following special conditions:

1. The mined out pits shall be developed with appropriate fencing and stairway such that the water can be safely used by the local villagers for irrigation.
2. The tasks 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.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Air pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
5. Transportation of material shall be done in covered vehicles.
6. Curtaining of site shall be done using appropriate media.
7. Production of stone boulder shall be restricted to  $1000\text{ m}^3/\text{Year}$  and the average depth of the pits shall not exceed 6.00m at the end of 10 years.
8. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
9. The validity of the prior EC & the lease shall be for a maximum period of ten years only.
10. Transportation shall not be carried out through forest area.
11. PP shall take CSR activities in the region through the Gram Panchayat.

**8. Case No. – 1452/2013 Shri Sunil Pandey, Nirman Bhawan, Near Central Bank of India, Beohari, Distt. – Shahdol (M.P.) 484774 - Expansion of Sunil Pandey Stone Mine Lease Area – 2.672 Ha. at Khasra No. – 736/7, 736/11, Village – Bhamraha - II, Tehsil -Beohari, Distt. – Shahdol (M.P.) Capacity – 30,000 TPA. Lease Period – 10 Year. ( Existing Capa. - 3000 TPA Abs. 131 Meeting dt. 08/05/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (2.672 Ha). The project is covered as item 1(a) in the schedule of EIA notification. Letter from Mining Officer no. 759 dt 28/08/14 reveals that no mine exists within 500 meters around the proposed mine site. Crusher is not proposed in the mining lease area.

As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny & presentation of the case reveals following:

**Minerals & capacity** - Proposed Capacity: - Stone ó 30,000 cum/year

### Location details

Site	Village Bhamraha-II
Tehsil	Beohari
Dist.	Shahdol
Area	2.672 ha
Latitude& Longitude	24 <sup>0</sup> 06ø05.25öN & 81 <sup>0</sup> 20ø44.67öE
Land Status	Pvt. Land

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

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Khasra No.	736/07, 736/11
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Lease Period of 5 years ( 29.11.2007 to 28.11.2012). Lease Renewal application has been filed for period of 10 years up to 28/11/2022 and the same shall be granted after obtaining EC.

**Environmental setting of project**

S.No.	Particulars	Details
1	Nearest City	Shahdol - 90 km from Mine
2	Nearest Railway Station	Beohari of 10 km from lease area.
3	Nearest Airport	Jabalpur - 280 km from the mines by road
4	Nearest Highway	Non within 10 km radius.
5	Nearest Village	Kanchanpur at 2.5 km
6	Topography	Undulating
7	Wildlife Sanctuary, National park, Biodiversity area	Non within 10 km radius. ( As per Parishishat of 1) certified by DFO, Shahdol
8	Nearest river	River Son of Approx. 15 km from mine

**Mining method**

- ~ The mining will be carried out by open cast manual method using JCB machine for removing OB
- ~ Blasting shall be carried out for loosening the stone.

**Source of pollution and mitigative measures**

- ~ Blasting of Low scale blasting below surface level so the flying particles shall be remains in pit.
- ~ Transportation - restricted speed limit of vehicles, and no over loading.

**Plantation during mining**

- The plantation shall be carried out on the periphery of lease area
- Name of plant/species- Mahua, Neem, Gulmohar etc.
- Nos of Plants of 50 in one year.

**Water pollution control measures**

- ❖ In the mining of stone, no water is required. The water is required for domestic purpose for general use like drinking, washing and dust suppression purpose.
- ❖ The quantity of domestic effluent shall be max. 500 liters, shall be naturally drained.
- ❖ In raining season to stop the run off we will make garland drains around OB dumps.

**Top Soil Management**

- Top soil shall be placed in lease area and spread over the OB dumps for stabilization.
- Socio-economic Benefits
- Employment shall be generated in various activities like mining, transportation, and other office working.

**CSR Activity:**

- Distribution of Stationary to primary School of 5000/- Per Year in Bhamraha.
- Medical checkup camp once in year at mine site of 3000/-

**Post Land use of Mine Pit**

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

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- After full exploration of stone the pit shall be partially backfilled by OB and remaining used as water reservoir, which will be used by animals for general purpose and use full for ground water recharging.
- Budget for Closer:
- Our budget for closer of mine shall be 15,000/- in which we will backfilled the pit by OB and make wire fencing around the pit.

### Budget for Environmental Protection

S. N	Particular	Capital cost (Rs.) Per Year
1.	Dust suppression	5000.0
2	Environmental monitoring	3000.0
3	Green belt development	3,000.0
4	Medical aids as per norms	2000.0
7	Others	2000.00
	Total	15,000.0

Based on the submissions made by the PP the case was recommended for grant of prior EC subject to the following special conditions:

1. The mined out pits shall be developed with appropriate fencing and stairway such that the water can be safely used by the local villagers for irrigation.
2. The tasks 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.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Curtaining of site shall be done using appropriate media.
6. Production of stone boulder shall be restricted to *15000 m<sup>3</sup>/Year and the average depth of the pits shall not exceed 6.00m at the end of 10 years.*
7. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
8. The validity of the prior EC & the lease shall be for a maximum period of ten years only.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat

**9. Case No. 1471/2013 – Shri Sandeep Mishra, Circuit House Road, Balaghat Distt. – Balaghat (M.P.) Stone Mine Lease Area – 1.114 Ha. at Khasra No. 6 873/2 Village 6 Nilji, Th.- Lalburra, Distt. 6 Balaghat (M.P.) Capacity 6 10,000 Cubic Meter/Year, Lease Period 6 10 Year. Abs. 129 Meeting dt. 27/04/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (1.114 Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny of the case reveals that PP has to submit mining plan, EMS and certification from Mining Officer regarding other mines with 500 meters around the proposed mine site. Thus it was decided by the committee that the PP may be asked to submit following:

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

# MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

## 149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

1. Copy of approved Mining Plan.
2. EMP and
3. Letter from Mining Officer indicating total no. of mines within 500 meters around the proposed site with their lease area and other details.

The above information shall be submitted within 1 month as decided in the 148<sup>th</sup> meeting dated 25/08/2014.

**10. Case No. – 1473/2013, Shri Mahesh Kumar Sharma, S/o Sh. Ram Krishna Sharma, Vill. Khiriya Mahu, Post narayanpur, Tehsil & dist. Ashoknagar MP 473331 - Stone Quarry, at Khasra No. –455/2 Village Piparya Rai Tehsil- Ashoknagar Distict- Ashoknagar MP Lease Area – 1.0 Ha. Capacity 5,000 M<sup>3</sup>/Year, Lease Period - 10 Year. Abs. 131 Meeting dt. 08/05/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (1.0 Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. The scrutiny of the case reveals that PP has to submit mining plan, EMS and certification from Mining Officer regarding other mines with 500 meters around the proposed mine site. Thus it was decided by the committee that the PP may be asked to submit following:

1. Copy of approved Mining Plan.
2. EMP and
3. Letter from Mining Officer indicating total no. of mines within 500 meters around the proposed site with their lease area and other details.

The above information shall be submitted within 1 month as decided in the 148<sup>th</sup> meeting dated 25/08/2014.

**11. Case No. – 1492/2013, Sh. Zakir Hussain, S/o sh. Chhote Khan, 45 Nahar Pura, Teh. Ratlam, Dist. Ratlaam (MP) - Stone /Gitti Quarry, at Khasra No. – 222/1 Village-Nandlai Tehsil- Ratlam, Dist. Ratlam Lease Area – 1.0 Ha. Capacity 1500 M<sup>3</sup>/Year, Lease Period - 10 Year. Abs. 131 Meeting dt. 08/05/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (2.0 Ha). The project is covered as item 1(a) in the schedule of EIA notification. The letter from Mining Officer no. 412 dt 04/09/14 reveals that 18 more mines with total lease area of 16.3 hectare exists within 500 meters around the proposed mine site.

As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting.

**Location of Mine:**

Site	Village Nandlai
Tehsil	Ratlam
Dist.	Ratlam
Area	1.0 ha
Latitude & Longitude	23 <sup>o</sup> 21'49.6"N & 75 <sup>o</sup> 05'46"E

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

**MINUTES OF STATE EXPERT APPRAISAL COMMITTEE**  
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Land Status	Govt. Land
Khasra No.	222/1

**Environmental setting of project**

Particulars	Details
Nearest City	Ratlam - 14 km from Mine
Nearest Railway Station	Ratlam ó 14 km from lease area.
Nearest Airport	Indore - 135 km from the mines by road
Nearest Highway	Non within 10 km radius.
Nearest Village	Nandlai at 2.0 km
Topography	Plain
Wildlife Sanctuary, National park, Biodiversity area	Non within 10 km radius. ( As per Parishishat ó 1) certified by DFO, Ratlam

**Mining method**

- “ The Method of manual/semi mechanize.
- “ The proposed mining will be carried out by open cast manual method using JCB machine for removing OB
- “ Blasting shall be carried out for loosing the stone.

**Water pollution control measures**

- “ In the mining of stone, no water is required. The water is required for domestic purpose for general use like drinking, washing and dust suppression purpose.
- “ The quantity of domestic effluent shall be max. 500 liters, shall be naturally drained.
- “ In raining season to stop the run off we will make garland drains around OB dumps.

**Budget for Environmental Protection**

Particular	Capital cost (Rs.) Per Year
Dust suppression	5000.0
Environmental monitoring	3000.0
Green belt development	2,000.0
Medical aids as per norms	3000.0
Total	13,000.0

Based on the submissions made by the PP the case was recommended for grant of prior EC subject to the following special conditions:

1. The mined out pits shall be developed with appropriate fencing and stairway such that the water can be safely used by the local villagers for irrigation.
2. The tasks 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.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Curtaining of site shall be done using appropriate media.
6. Production of stone boulder shall be restricted to  $1500\text{ m}^3/\text{Year}$  and the average depth of the pits shall not exceed 6.00m at the end of 10 years.
7. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
8. The validity of the prior EC & the lease shall be for a maximum period of ten years only.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat.

**12. Case No. – 1508/2013 Shri Rahul Jaiswal S/o Shri Narendra Kumar Jaiswal, 15-Gandhinagar, Ratlam, Distt. – Ratlam (M.P.) Shri Rahul Jaiswal Stone/Boulder Mine Lease Area – 2.00 Ha. at Khasra No. – 181, Village – Bibrod, Tehsil – Ratlam, Distt. – Ratlam (M.P.) Capacity – 1500-- Cubic Meter/Year, Lease Period – 10 Year.** Abs. 131 Meeting dt. 08/05/13.

This is a mining project of minor mineral with lease area of less than 5 ha. (2.0 Ha). The project is covered as item 1(a) in the schedule of EIA notification. The letter from Mining Officer no. 411 dt 04/09/14 reveals that two more mines with total lease area of 04 hectare exists within 500 meters around the proposed mine site.

As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting.

### Location details

Site	Village Bibrod
Tehsil	Ratlam
Dist.	Ratlam
Area	2.00 ha
Latitude & Longitude	23019 $\phi$ 52.8 $\phi$ N & 74058 $\phi$ 7 $\phi$ E
Land Status	Govt. Land
Khasra No.	181

### Environmental setting of project

Particulars	Details
Nearest City	Ratlam - 14 km from Mine
Nearest Railway Station	Ratlam 6 14 km from lease area.
Nearest Airport	Indore - 135 km from the mines by road
Nearest Highway	Non within 10 km radius.
Nearest Village	Nandlai at 2.0 km

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]



# MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

Topography	Plain
Wildlife Sanctuary, National park, Biodiversity area	Non within 10 km radius. ( As per Parishishat ó 1) certified by DFO, Ratlam

## Mining method

- “ The Method of manual/semi mechanize.
- “ The proposed mining will be carried out by open cast manual method using JCB machine for removing OB
- “ Blasting shall be carried out for loosening the stone.

## Source of pollution and mitigative measures

- “ Blasting ó Low scale blasting below surface level so the flying particles shall be remains in pit.
- “ Transportation - restricted speed limit of vehicles, and no over loading.
- “ Crusher ó Screen shall be covered, water sprinklers shall be provided near dusty area.

## Water pollution control measures

- “ In the mining of stone, no water is required. The water is required for domestic purpose for general use like drinking, washing and dust suppression purpose.
- “ The quantity of domestic effluent shall be max. 500 liters, shall be naturally drained.
- “ In raining season to stop the run off we will make garland drains around OB dumps.

## Rehabilitation & Resettlement Plan:

- “ After excavation the area shall used as water reservoir.

**CSR Activity:** Medical checkup camp once in year at mine site ó 3000/-

**Post Land use of Mine Pit -** After full exploration of stone the pit shall be partially backfilled by OB and remaining used as water reservoir, which will be used by animals for general purpose and use full for ground water recharging.

**Budget for Closer:** - Budget for closer of mine is proposed to be 15,000/- including the backfilling of the pit by OB and wire fencing around the pit.

## Budget for Environmental Protection

Particular	Capital cost (Rs.) Per Year
Dust suppression	5000.0
Environmental monitoring	5000.0
Green belt development	5,000.0
Medical aids as per norms	3000.0
Total	18,000.0

Based on the submissions made by the PP the case was recommended for grant of prior EC subject to the following special conditions:

1. The mined out pits shall be developed with appropriate fencing and stairway such that the water can be safely used by the local villagers for irrigation.
2. The tasks 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.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

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3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Curtaining of site shall be done using appropriate media.
6. Production of stone boulder shall be restricted to  $1500\text{ m}^3/\text{Year}$  and the average depth of the pits shall not exceed 6.00m at the end of 10 years.
7. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
8. The validity of the prior EC & the lease shall be for a maximum period of ten years only.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat.

**13. Case No. – 1670/2013 Shri Kishan Pal Singh R/o Mahindra Nagar, Nawada Bag Colony, Bhind Distt. - Bhind (M.P.) Expansion Gohad Stone Quarry, at Khasra No.- 04, Village – Gohad, Tehsil – Gohad, Distt. – Bhind (M.P.) Lease Area – 3.0 ha. Capacity – 799730 Tonnes Per Year ( Existing Capa. -5000 Tonnes Per Year), Lease Period – 10 Year. CF from 148<sup>th</sup> dt. 25/08/14.**

PP was asked to come with the Mine Planner to explain the queries in meeting dated 25/08/14. 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. However, a request from PP was received for considering the case in next meeting. Committee decided to call the PP in next meeting as per turn.

**14. Case No. – 1650/2013 Shri Dharmendra Singh, Solanki S/o Shri Yaswant Solanki Owner, 9, Khandwa Road, Balaji Auto Parts – Sanawad, Teh. – Barwah, Distt. – Khargone (M.P.) – 451111- Harbanapura Road Metal Stone Quarry Lease Area – 1.70 ha. at Survey No.- 41/1, Village - Harbanapura, Tehsil – Punasa, Distt. – Khandwa (M.P.) Capacity – 70,000 Cubic Meter Year, Lease Period – 10 Year. Abs. 134 Meeting dt. 03/06/13.**

This is a mining project of minor mineral with lease area of less than 5 ha. (1.70 Ha). The project is covered as item 1(a) in the schedule of EIA notification. Letter from Mining Officer no. 10872 dt 01/09/14 reveals that only one more mine of stone / murrum with mining lease area of 1.72 ha exists within 500 meters around the proposed mine site. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting. The mining plan presented by the PP was not clear especially the closure plan. Hence PP was asked to submit a revised Mining Plan after due approval from competent authority.

**15. Case No. 928/2012 - Shri Jitendra Sonkeshria, Mission School Complex, Seoni Distt. Seoni (M.P.) - Mining of Stone. Lease area 2.83 ha, Khasra No. 102 in village Bandol, Tehsil Seoni, Dist. Seoni (M. P.). Proposed production capacity- 7500 m<sup>3</sup> / year.**

This is a mining project of minor mineral with lease area of less than 5 ha. (2.83 Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

# MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting. Certification from Mining Officer regarding presence of other mines with 500 meters around the proposed mine site with exact MLA, Khasra No. and other details of the mines (if any) to be furnished.

## Cases from extended agenda with due permission of Chairman

- 1. Case No. – 787/2012 Shri Abhishek Sahu S/o Shri Jagdish Sahu, Vill. Chhewala ,The.-Deori, Dist.-Sagar (M.P.) - 1.0 Hectare Stone/ Boulder Quarry At Vill. Chhewala, Teh-Deori, Distt.-Sagar (M.P.)**Case discussed 102<sup>nd</sup> meeting dt. 11/09/2012. (ToR Reccommended)

This is a mining project of minor mineral with lease area of less than 5 ha. (2.83 Ha). The project is covered as item 1(a) in the schedule of EIA notification. As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting. Certification from Mining Officer regarding presence of other mines with 500 meters around the proposed mine site with exact MLA, Khasra No. and other details of the mines (if any) to be furnished.

- 2. Case No. - 790/2012 M/s Rai Stone Crusher, Village Dudhmaniya Tehsil Pushprajgarh Distt. Anuppur, - Lease Area - 1.01 Hectares stone chips quarry at Vill. - Dudhmaniya Tehsil Pushprajgarh, Dist. Anuppur (M.P.)**PP for submitting Annexure-1&2 & Mining Plan Copy to SEAC directly.Case discussed 102<sup>nd</sup> SEAC Meeting dt. 11/19/12/ SEIAA Qry ó 154 dt. 26/07/14.

This is a mining project of minor mineral with lease area of less than 5 ha. (1.01 Ha). The project is covered as item 1(a) in the schedule of EIA notification. The letter from Mining Officer no. 927 dt 27/08/14 reveals that no mine exists within 500 meters around the proposed mine site.

As per the guidelines of MoEF dated 24/12/2013 the project by virtue of its lease area and location falls under B-2 category. Salient features of the project, the EMP and other relevant issues were discussed in the meeting.

Based on the submissions made by the PP the case was recommended for grant of prior EC subject to the following special conditions:

1. The mined out pits shall be developed with appropriate fencing and stairway such that the water can be safely used by the local villagers for irrigation.
2. The tasks 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.
3. PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Curtaining of site shall be done using appropriate media.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[M.P. Singh, Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Manohar K. Joshi, Member]

[Rameshwar Maheshwari, Member]

[A.A. Mishra, Secretary]

## MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

149<sup>th</sup> MEETING 5<sup>th</sup> September 2014

6. Production of stone boulder shall be restricted to 1500 m<sup>3</sup>/Year and the average depth of the pits shall not exceed 6.00m at the end of 10 years.
7. The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
8. The validity of the prior EC & the lease shall be for a maximum period of ten years only.
9. Transportation shall not be carried out through forest area.
10. PP shall take CSR activities in the region through the Gram Panchayat.

**3. Case No. – 1685/2013 M/s K.L. Sharma, Proprietor, 157, C Sector, Indrapuri, Bhopal (M.P) Residential Township project " Regal Town " at Khasra No. – 306, 307/1/2, 311/1kh, 311/1kha, 312, 150/5/2k, 309/3/2kha, Village- Khajurikalan, Tehsil – Huzur, District – Bhopal (M.P.), Plot Area – 27,860 M<sup>2</sup> , Built up Area – 49,678.50 M<sup>2</sup> ,Ground Coverage – 30% of Plot Area (8358 M<sup>2</sup>). Env. Consultant: M/s Kadam Environmental Consultants, Vadodara (Guj.) - Building Construction.**

This is a building construction project with proposed plot area of 27,860 m<sup>2</sup> & total built-up area of 49,678.50 m<sup>2</sup> hence covered in the schedule of EIA notification 2006 as amended from time to time as item no. 8(a). Hence the project requires prior EC from SEIAA. The application along with the annexure was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

It was submitted by the PP that construction activities have been initiated at site admitting violation of the provisions of EIA Notification. PP has submitted a copy of Resolution along with evidence of credible legal action against the PP for the caused violation, in compliance to the O.M. of MoEF dated 12/12/2012. It was reported by the PP that the construction at site is almost complete and presently the activity has been stopped. Based on the submissions PP was allowed to make the presentation before the committee. The salient features of the project, environmental impacts, EMP and other relevant issues were presented by the PP and his consultant, which reveals following:

**Scope of the project**

Location of project	Khasra No. 306, 307/1/2, 311/1K, 311/1/KHA, 312, 150/5/2K, 309/3/2KHA Village-Khajuri Kalan, Tehsil-Huzur, Bhopal, M.P.
Project Proponent	M/s K.L Sharma
Plot area (m <sup>2</sup> )	27,860
Proposed Built up Area (m <sup>2</sup> )	49,678.50
Total proposed F.A.R. (m <sup>2</sup> )	39,658.2
Maximum height of building, (m)	18 + Stilt
Number of floor	G+6
Basement area (m <sup>2</sup> )	5,670
Proposed Ground coverage (m <sup>2</sup> )	6,596.76
Green area (m <sup>2</sup> )	2,697.44 (10 % of plot area)
Total Parking	397 ECS
Power requirement	1,900 kVA Source: MPPKVCL
Proposed capacity of DG set	30 X 3 + 45 X 3 kVA
Water requirement & Source	Operation phase:382 KLD

[R.B. Lal, Chairman]

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[Dr. Alok Mittal, Member]

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	(230.55 KLD fresh water and 145 KLD treated water) Source: Bhopal Municipal Corporation
Waste water Generation	289 KLD
Sewage Treatment Plant (STP)	350 KLD
Total Solid Waste generation	1.1 ton/day
Population	2,718 ( including 2507 residents, 125 visitors, 86 staff population)

**Project surroundings:**

Area	Name	Approximate distance (km) and Direction
Nearest Highway	NH-12	~ 1.5 km in East direction
Nearest Railway	Bhopal Railway Junction	~10 km in NW direction
Nearest Airport	Raja Bhoj Airport	~ 16 km in NW direction
Densely populated or built-up area	Awadhपुरi , Avinash Nagar	~ 0.98 km in West direction ~ 1.5 km in SW direction

**Plot area breakup**

Area	Area in sq.m.	%
Total Plot Area	27,860	
Ground coverage	6,596.76	23.67
Parking/Utility area	18,565.8	66.65
Green area	2,697.44	9.68

**Water demand breakup during operation phase:**

S.N	Purpose	Water Requirement		Fresh water Requirement (KLD)	Treated Water Requirement (KLD)	Wastewater Generation (KLD)
		Quantity (KLD)	Remarks			
A]	Residential	338.45	135 lpcd for 2,507 Occupants	225.63	112.7	270.72
B]	Visitors	1.87	15 lit per 125 visitors	0.63	1.24	1.5
C]	Staff	2.25	45 lit per 50 staff	0.75	1.5	1.8
D]	Shopping ó Staff	1.62	45 lit per 36 occupants	0.54	1.08	0.58
E]	Green area	12.13	4.5 lit/m <sup>2</sup> for 2,697.44 m <sup>2</sup>	-	12.13	-
F]	Fountains	1.5	1,500 lit for fountains (evaporation loss make up)	-	1.5	-
G]	Public Use Cleaning	18.0	18,000 lit for cleaning amenities, road washing etc.	3.0	15.0	15
H]	Total	382		230.55	145	289 ó 15 Kl (Evaporation and sludge loss) = 274

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**Solid waste generation and disposal in operational phase**

S. No	Description	kg/capita/day	Total Solid Waste Generation (kg/day)
1.	Residents (2507 person)	0.45	1128
2.	Staff (86 persons)	0.1	8.6
3.	Visitors (125 persons)	0.05	6.25
4.	Landscape waste (2,697.44 m <sup>2</sup> )	15 kg/acre/day	9.9
Total			1152.75 kg/day Say 1.1 ton/day

**Collection and disposal** – It was submitted by the Pp that, the solid wastes generated will be segregated into biodegradable and non-biodegradable components and collected in separate bins of suitable storage capacity (approximately 5000 liters storage capacity) and will be disposed through BMC. The recyclable wastes comprising paper, plastic, glass etc., will be sold to prospective buyers.

**Energy saving measures observed by the PP:**

Following measures are proposed to increase the energy-efficiency of proposed Residential Complex:

- ❖ 33% of external street lights will be solar lights
- ❖ RCC slab with foam concrete insulation as well under deck thermal insulation of roof
- ❖ CFL & T-5 lighting fixtures in the common areas and Truelite fluorescent lamps in basements
- ❖ Star rated/ISI mark energy efficient motors and pumps for water supply & sewage pumping
- ❖ CLC (Cellular lightweight concrete) blocks plastered on both sides
- ❖ About 20% of Energy will be saved in comparison to conventional lighting system.

**Fire Fighting:** PP has obtained NOC from Municipal Corporation (fire fighting).

It was reported by the PP that, the project falls under: Group E, Sub group A-4 Fire Zone- 1. Under the clauses (4.18.2, 6.1.2, 6.2.3, 6.3.2, 6.4.3, 6.5.2, 6.5.2.1, 6.5.2.2, 6.5.2.3, 6.5.2.4, 6.5.2.5, 6.6.2, 6.7.2, 6.8.2 and 6.9.2) following are minimum requirements for firefighting installations, which have been planned in the project:

1. **Underground Static Water Storage Tank** ó Capacity- **75,000 liters**
2. **Terrace Tank (I) capacity- 10,000 liters.**
3. **Automatic Sprinkler System** - To be installed in entire building
4. **Pump capacity for underground water storage tank** - One electric and one diesel pump of capacity 2,280 l/min and one electric pump of capacity 180 l/min
5. **Other equipments-** Fire Extinguishers , Hose Reel , Wet Riser, Yard Hydrant, Manually Operated Electric Fire Alarm Systems and Automatic Detection and Alarm System

**EMP:**

Parameter	Mitigation Measures	
	Construction phase	Operation phase

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<b>Noise</b>	<ul style="list-style-type: none"> <li>• Vehicle trips to be minimized to the extent possible</li> <li>• Acoustic mufflers / enclosures to be provided in large engines/machineries</li> <li>• Equipment to be maintained in good working order</li> <li>• Implement good working practices (equipment selection) to minimize noise and also reduce its impacts on human health (ear muffs, safe distances, and enclosures)</li> <li>• Noise to be monitored in ambient air within the premises.</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic controlled by trained staff</li> <li>• Acoustic Enclosure will be provided around D.G. Set</li> <li>• Noise monitoring of D.G. Set from 1m distance as per norms</li> <li>• Proper Traffic Signage will be placed at several places within premises</li> </ul>
<b>Air</b>	<ul style="list-style-type: none"> <li>• Dust suppression by spraying of water</li> <li>• Peripheral barricading of 3m height</li> <li>• Compaction of soil during various construction activities</li> <li>• Ambient Air Quality within the premises of the proposed unit to be monitored</li> <li>• Dry and dusty materials stored in sealed containers or prevented from blowing</li> <li>• Material will be covered during transportation except steel</li> <li>• PUC compulsion for all vehicles</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic controlled by trained staff</li> <li>• Appropriate stack height will be provided</li> <li>• Ambient Air Quality of the proposed unit to be monitored</li> <li>• Periodical Stack Monitoring will be carried out</li> </ul>

**Environment Management Budget**  
**Construction Phase**

Capital Cost		Recurring Cost	
Item	Rs. lac	Item	Rs. lac/ yr
Sanitation facilities for construction workers	5.0	Monitoring of air, noise, water and soil	3.0
Curtain Wall around Project Boundary	15.0	Dust Suppression	5.0
Covered Storage for Construction Material	10.0	Garbage and Debris Disposal	5.0
Sedimentation trap for construction waste water	4.0		
<b>Total</b>	<b>34.0</b>	<b>Total</b>	<b>13.0</b>

**Operational Phase**

Capital Cost		Recurring Cost	
Item	Rs. lacs	Item	Rs. lacs/ yr

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STP	60.0	Effluent & water quality monitoring & O and M Costs	12.0
DG stacks	15.0	Stack emission & ambient air monitoring	2.0
DG room enclosure & acoustic treatment	25.0	Ambient & DG noise monitoring	1.0
Solid waste management	15.0	Solid waste handling treatment & disposal	5.0
Rainwater harvesting system	20.0	Maintenance of RHS	5.0
Storm water drainage system	25.0	Maintenance of drainage	3.0
Landscaping	20.0	Maintenance of green area	5.0
<b>Total</b>	<b>180.0</b>	<b>Total</b>	<b>33.0</b>

After deliberations committee is of the view that, as construction activity has already been taken up in the project it is essential to evaluate the feasibility with regard to implementation of various provisions such as- dual plumbing, STP location, requisite parking space, MSW storage area etc. before putting forward any recommendations for the project. Hence it was decided to carry out a site inspection through the sub-committee of SEAC as may be constituted by the Chairman.

- 4. Case No. – 1687/2013** M/s Shikhar Housing Development Pvt. Ltd., Director, M/s Pawan Agrawal, 248/4/1, Pipliya Kumar, Indore (M.P.) Proposed Residential Township Project " Balaji Skyz " at Khasra No. – 74/2, 74/3, 76, 78, 79/4 Village – Pipliyakumar, Tehsil & Distt. - Indore (M.P.) **Total Land Area = 17,435.88 m<sup>2</sup> Total Built up Area – 30,438.87 m<sup>2</sup>** . Env. Consultant: M/s Kadam Environmental Consultants, Vadodara (Guj.) - **Building Construction**

This is a building construction project with proposed plot area of 17,435.88 m<sup>2</sup> & total built-up area of 30,438.87 m<sup>2</sup> hence covered in the schedule of EIA notification 2006 as amended from time to time as item no. 8(a). Hence the project requires prior EC from SEIAA. The application along with the annexure was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

It was submitted by the PP that construction activities have been initiated at site admitting violation of the provisions of EIA Notification. PP has submitted a copy of Resolution along with evidence of credible legal action against the PP for the caused violation, in compliance to the O.M. of MoEF dated 12/12/2012. It was reported by the PP that the construction at site is almost complete and presently the activity has been stopped. Based on the submissions PP was allowed to make the presentation before the committee. The salient features of the project, environmental impacts, EMP and other relevant issues were presented by the PP and his consultant, which reveals following:

Project	<i>Residential Project "Balaji Skyz"</i>
Location of project	Khasra No. 74/2, 74/3, 76, 78, 79/4
Applicant Name	<i>KMM Real Estate &amp; Construction Pvt. Ltd. and Developers Shikhar Housing Development Pvt. Ltd.</i>
Plot area (m <sup>2</sup> )	17,435.38

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Proposed Built up Area (m <sup>2</sup> )	30,438.87
F.A.R	20,050.687
Maximum height of building (m)	21
Number of floors	G+6 for Residential & G+2 for shops
Permissible Ground coverage(m <sup>2</sup> )	5,753.67 (33 % of the Plot Area)
Proposed Ground coverage(m <sup>2</sup> )	5,254.10 (32.9 % of the Plot Area)
Green Area (m <sup>2</sup> )	3,870
Total Parking	296 ECS (127 ECS in Basement & 169 ECS in stilt)
Power Requirement	3,000 kVA
Proposed capacity of DG set	2 x 150 kVA (For common area)
Population	2,565 (2,100 residents, 450 visitors, 15 staff)
Water requirement & Source	Operation Phase -210 KLD , Source: IMC
Sewage Treatment Plant (STP)	300 KLD (FAB Technology)
Total Solid Waste generation	1.08 ton/day

**Project site surroundings**

Area	Name	Approximate distance (km) and Direction
Nearest Railway	Indore Railway Station	~9 km in SW direction.
Nearest Airport	Devi Ahilyabai Holkar Airport	~16 km in NW direction.
Nearest Highway	NH-3	~2 km in North direction.

**Plot Area break-up**

Area	Area (sqm)	%
Ground coverage	5,254.10	30.1
Green area	3,870	22.2
Road & utility area	8,311.28	47.7
Total Plot Area	17,435.38	100

**Water & Wastewater Details (Operation Phase)**

Purpose	Water Requirement		Fresh water Requirement (KLD)	Treated Water Requirement (KLD)	Wastewater Generation (KLD)
	Quantity (KLD)	Remarks			
Residential	283.5	135 lpcd for 2,100 Occupants	189.0	94.5	240.9

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Visitors (including commercial)	6.75	15 lit per 450 visitors (including commercial)	2.25	4.50	5.74
Shopping	0.68	45 lit per 15 occupants	0.68	-	0.58
Green area	17.42	4.5 lit/m <sup>2</sup> for 3,870 m <sup>2</sup>	-	17.42	-
Fountains	1.5	1,500 lit for fountains (evaporation loss make up)	-	1.5	-
Swimming Pool	15.0	-	15	-	12.5
Public Use Cleaning	15.0	15,000 lit for cleaning amenities, road washing etc.	3.0	12.0	12.5
Total	340		210	130	272

**Solid Waste Generation Details**

It was reported by the Pp that, Solid waste generated in Project area will be 1.08 ton/day and mainly of domestic nature. Solid waste will be segregated into biodegradable and non-biodegradable wastes and collected in separate bins. The non-biodegradable wastes will be sold to recyclers and the biodegradable wastes will be collected and disposed into composting pits at site.

**Mode of Disposal:**

- ❖ Biodegradable waste will be disposed to nearby municipal Bins.
- ❖ Non-Biodegradable (Recyclable) waste will be sold off to authorized recyclers as per Municipal Solid Waste (Management & Handling) Rule,2000.

**Fire Fighting Installation System:** PP has submitted NOC for firefighting provided by the TNCP department based on the plan submitted by the PP.

It was reported by the PP that under the clauses (4.18.2, 6.1.2, 6.2.3, 6.3.2, 6.4.3, 6.5.2, 6.5.2.1, 6.5.2.2, 6.5.2.3, 6.5.2.4, 6.5.2.5, 6.6.2, 6.7.2, 6.8.2 and 6.9.2) following are minimum requirements for fire-fighting installations.

- ❖ Fire Extinguishers
- ❖ Hose Reel
- ❖ Wet Riser
- ❖ Yard Hydrant
- ❖ Automatic Sprinkler System (to be installed in entire building)
- ❖ Manually Operated Electric Fire Alarm Systems
- ❖ Underground Static Water Storage Tank ó 75,000 lit
- ❖ Terrace Tank -10,000 lit
- ❖ One electric and one diesel pump of capacity 2,280 l/min and one electric pump of capacity 180 l/min.

**Energy Conservation in the project:**

Following measures have been proposed to increase the energy-efficiency of proposed Residential complex:

- ❖ 33% of external street lights will be solar lights
- ❖ RCC slab with foam concrete insulation as well under deck thermal insulation of roof

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- ❖ CFL/LED & T-5 lighting fixtures in the common areas and Truelite fluorescent lamps in basements
- ❖ Star rated/ISI mark energy efficient motors and pumps for water supply & sewage pumping
- ❖ External glazing will be below 60% of the total vertical surface as per ECBC for club House
- ❖ CLC (Cellular lightweight concrete) blocks plastered on both sides

**EMP:**

Parameter	Mitigation Measures	
	Construction phase	Operation phase
Noise	<ul style="list-style-type: none"> <li>• Vehicle trips to be minimized to the extent possible</li> <li>• Acoustic mufflers / enclosures to be provided in large engines/machineries</li> <li>• Equipment to be maintained in good working order</li> <li>• Implement good working practices (equipment selection) to minimize noise and also reduce its impacts on human health (ear muffs, safe distances, and enclosures)</li> <li>• All equipments will be operated within specified design parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic controlled by trained staff</li> <li>• Acoustic Enclosure will be provided around D.G. Set</li> <li>• Noise monitoring of D.G. Set from 1m distance as per norms</li> <li>• Proper Traffic Signage will be placed at several places within premises</li> </ul>
Air	<ul style="list-style-type: none"> <li>• Dust suppression by spraying of water</li> <li>• Peripheral barricading of 6m height</li> <li>• Compaction of soil during various construction activities</li> <li>• Ambient air quality within the premises of the proposed unit to be monitored</li> <li>• Dry and dusty materials stored in sealed containers or prevented from blowing</li> <li>• Material will be covered during transportation except steel</li> <li>• PUC compulsion for all vehicles</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic controlled by trained staff</li> <li>• Appropriate stack height will be provided</li> <li>• Ambient air quality of the proposed unit to be monitored</li> <li>• Periodical Stack Monitoring will be carried out</li> </ul>

**Environmental monitoring budget**

Head	Approximate recurring cost per annum (Rs. in lac)	Approximate Capital cost (Rs. In lac)	Basis for cost estimates
Air	0.5	2.0	Stack and DG room
Solid and hazardous waste management	1.5	2.0	Provide a bins at each door and transportation cost
Environment monitoring	3.0	0	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.

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Rain water	4.5	30	Collection system, treatment and recharge well
Green belt	5.0	20	-
STP	13.5	90	-
<b>Total</b>	<b>28</b>	<b>144</b>	-

After deliberations committee is of the view that, as construction activity has already been taken up in the project it is essential to evaluate the feasibility with regard to implementation of various provisions such as- dual plumbing, STP location, requisite parking space, MSW storage area etc. before putting forward any recommendations for the project. Hence it was decided to carry out a site inspection through the sub-committee of SEAC as may be constituted by the Chairman.

- 5. Case No. - 885/2012 - Shri Nivedan Bhardwaj, M.D., M/s Fortune Stones Ltd. 11, Bungalow No. - 2, Lokanathpurm, Sagar Road, Distt. -Chhatarpur (M.P.) - 471001 Expansion of Katahara Granite Quarry at Khasra No. - 901, Village - Katahara, Tehsil - Lovekush Nagar, Distt. - Chhatarpur (M.P.) Lease Area - 6.00 ha. Capacity: 20,000 Cubic meter per year (Existing Capa. - 7000 Cubic meter per year) ToR issued vide letter No. 596 dt. 30/07/13. Env. Consultant: M/s Creative Enviro Sevices, Bhopal (M.P.) - EIA Presentation.**

This is a Mining Project comprising MLA of 6.00 Ha. Mining of Granite is being done with existing production capacity of 7000 m<sup>3</sup> / Year. Expansion in production capacity is proposed from 7000 to 20000 m<sup>3</sup> per year. Prior EC for the existing capacity was granted by MPSEIAA. The project is covered as item 1(a) cat-B in the schedule of EIA Notification; hence EC is required before enhancement in production capacity from MPSEIAA. The TOR was issued to the Pp to carry out EIA / EMP vide letter no. 596 dated 30/07/2013. The EIA, EMP along with the Public Hearing proceedings was forwarded by SEIAA for appraisal and necessary recommendation of SEAC. The submissions and the presentation made by the PP reveals following:

**Background of project**

Objective	To obtain Environmental Clearance for Capacity Expansion of Kathara Granite mine (6.0ha)
Existing capacity	7,000 cum per annum
Proposed Capacity	20,000 cum per annum
Location of Project	Village- Kathara, Tehsil- Lovekush Nagar, Dist Chhatarpur (MP)
Occupancy of land	Govt. denuded protected forest land
Lease Period	20 Year from 04-07-2008
Existing Environmental clearance	225/EPPCO-SEIAA/10 dated 13/7/2010
Altitude of Site	276-211 AMSL

**Environmental setting of the project**

Particulars	Details
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[R.B. Lal, Chairman]

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Village	Kathara
Tehsil	Lovekush Nagar
District	Chhatarpur
State	MP
Latitude	25 <sup>0</sup> 04 <sup>0</sup> 53.2 <sup>o</sup> to 25 <sup>0</sup> 05 <sup>0</sup> 09.89 <sup>o</sup> North
Longitude	80 <sup>0</sup> 00 <sup>0</sup> 6.63 <sup>o</sup> To 80 <sup>0</sup> 00 <sup>0</sup> 89.6 <sup>o</sup> East
Co-Ordinate	25 <sup>0</sup> 04 <sup>0</sup> 53.2 <sup>o</sup> - 80 <sup>0</sup> 00 <sup>0</sup> 89.6 <sup>o</sup> 25 <sup>0</sup> 04 <sup>0</sup> 52.7 <sup>o</sup> - 80 <sup>0</sup> 00 <sup>0</sup> 87.8 <sup>o</sup> 25 <sup>0</sup> 05 <sup>0</sup> 09.9 <sup>o</sup> - 80 <sup>0</sup> 00 <sup>0</sup> 6.62 <sup>o</sup> 25 <sup>0</sup> 05 <sup>0</sup> 08.85 <sup>o</sup> - 80 <sup>0</sup> 00 <sup>0</sup> 26.43 <sup>o</sup>
General Ground Level	211m
Nearest National/state Highway	Bagmau-Bacchan PWD Road - 0.2km ó N
Nearest Railway Station	Khajuraho - 35.0 km
Nearest Airport	Khajuraho - 35.0 km
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)	- S - 0.2km - N - 6.5km - NNE - 7.0km
Particulars	
Nearest major city with 100000 population within 10km radius	
Nearest Town / City within 10km radius	gar - 5.0km
Nearest Village	- NE - 0.2 km
Nearest River	- SW - 4.40km
Nearest Nalla	Mahan Nalla - SSE - 6.5km Mudiha Ghat Nalla - SE - 1.5km Khamuwah Nalla - E - 4.5km Sangalri Nalla - SSE - 7.5km Jamnyahi Nalla - EEN- 9.0km Gohal Nalla - EEN- 9.0km Basaha Nalla - NNE - 4.5km Man Sagar - N - 5.0km Local Pond - N - 0.2km
Nearest Hill Ranges	None within 10km radius
Other quarries within 10km radius	10 quarry Kathara ó 02 (M/s Fortune Stone Ltd.) Silpatpura ó 07 (M/s S.B. Granite-02, Granite India ó 02, Manvendra Singh-01, Kisan minerals-01) Marwa ó 01

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Industry within 10km radius

None within 10km radius

The compliance report pertaining to the compliances of the conditions of existing EC was submitted by the PP. The same was discussed in the meeting. It was observed that most of the conditions of existing EC are being complied with by the PP. However, the inspection report from the Regional Office of MoEF in this regard has not been submitted by the PP during the meeting.

Public Hearing issues were discussed in length. No adverse issues were observed in the public hearing and overall the public opinion was in favour of the proposed expansion. Some of the local residents have demanded for:

- Plantation around the village and Employment, PP has submitted that more than 75 % employees in the existing mine operation is from local residents and in future also the trend shall be maintained.
- Complaints regarding fugitive emissions were also observed in the PH it was cleared by the PP that all efforts shall be made to control the fugitive emission from the mines through improved sprinkling system and haul road maintenance.
- Complaint regarding dumping of overburden on play ground was also made, PP has clarified that no OB is being done on unauthorized locations and the OB is being dumped only at land owned by the PP.
- Nearby resident reported damages in house and demanded its repair. PP clarified that heavy blasting is not done in the mining of granite hence damage to buildings from mining operation is not possible, but the PP has committed to repair the damages.
- Appointment of good was also demanded, PP reported that an Ayurved Doctor has already been appointed by the PP.

## Salient feature of the mine:

Particulars	Details
Type of Mine	Open Cast
Mining Lease Area	6.0ha
Mineable Area	5.80 ha
Existing Pits & Quarries	5.20 ha
Existing Dumps	0.70ha
Infrastrucuter and road	0.1 ha
Recoverable Reserve	292010 cubic meter
Method of mining	Fully mechanised
Ultimate Depth of Mining	2m (209mRL)
Ultimate Pit Slope	60°
Expected Life of Mines	15 years
Lease Period	20 year upto 2028
Stripping Ratio	1:7.3
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	nil
Area covered under pit in conceptual period	5.8 ha
Area to be reclaimed by conceptual period	5.8 ha
Area to be covered under plantation by conceptual period	6.0ha

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Area to covered under water reservoir	Nil
Surface mRL	211mRL
Ground water table	
Monsoon period	32m bgl (179mRL)
Dry month	34m bgl (177mRL)

## Conceptual plan

Items	Existing	Conceptual Period
Total lease area	6.0ha	
Ultimate depth of mining	2-3m above ground level	2m up 209mRL
Ultimate pit slope	60 degree	60degree
Area under dumps	0.70ha	Nil
Area under pits	5.20ha	5.80 ha
Area to be reclaimed	Nil	5.80 ha
Infrastructure & Road	0.10 ha	Nil
Mineral storage	Nil	Nil
Plantation	Nil	6.0ha
Water body	0.5ha	Nil

## Mining method

- Opencast mechanical method of mining has been carried out and same will be continue.
- Debris, rubbish etc termed as overburden formed and accumulated to be removed by excavator and tipper and dumped in the dumping yard
- Mining of granite with drilling & blasting with a very little charge just to spilt out.
- Drilled holes are made side ways in the blasted zone by TMC one after another in close succession on one vertical surface of the blasted zone.
- Blasting salt are put in the drilled holes and the face thus drilled is lighted and blasted.
- Big chunks of granite that come after blasting are then handled.
- Granite blocks acquired irregular edges and surface are called "Random Blocks". The edges and surfaces of random blocks are cut by chiselling manually and granite blocks are ready for despatch.
- Generally in a granite bench a block of granite with 2m width X 2m length X 1.5m height will be selected.
- Loading of the block of granite will be done by mobile crane and Loading of overburden will be hauled by loader cum dumper combination.

## EMP

### Air pollution control measures

The subject lease is in continuation with another lease of 21.736ha and the predicted value reveals that the maximum incremental short term 24 hourly ground level concentrations of particulates is 3.18mg/m<sup>3</sup>. Following measures were reported to be taken up by the mine management to mitigate the effect mining operation over ambient air environment:

- Spraying of water on the haulage roads, services road & dump area and frequency of the spraying over haulage road shall be increased, after capacity expansion.
- Dumping has been done in North West and south direction away from the habitation of the villages. The dumps are surrounded by the agricultural fields. To prevent the fugitive emission

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during windy days, the process of stabilization shall be taken up at faster pace. Regular water spraying over the dumps (at-least once in a day) is proposed.

- Cutting tools for granite have been used with the spray of water to reduce the dust emission and during the drilling of granite block, water has been sprayed. The same practice shall be maintained.
- Haulage of overburden/mine waste to the siding has been done by dumper. The approach road from lease area to PWD road is about 0.2km, which is kuchha road. Dust generation due to transportation will be for limited period and extent to small area. Water spraying has already been carried out, however frequency of spraying should be twice in a day. The timing of movement of dumpers must be scheduled considering the local village activities.
- Old dumps have been temporary stabilized with legumes and grasses to prevent the erosion of soil and to arrest the dust emission during windy days. Over burden dumps will not be left active for longer period and will be used for reclamation purposes.
- Dust mask have been provided to all workers, and use shall be made compulsory.

## Water pollution control measures

No water course is reported in the lease area. The main drainage of the area is through seasonal Nalla, which is in south west at 100 m distance. The water table in the quarry area varies from 32m to 34m, whereas mining will be done up to avg. 2m depth, thus ground water table will be not touched during conceptual period.

Following measures are being observed to control the impacts on water regime:

- “ Garland drain along the waste dumps having depth & length of as 0.50m and 1000m respectively.
- “ Garland drain at slop of hill along the village side having length & depth as approx 1000m and 2.5m.
- “ By providing drain around hill slope and along the dump, the impact of silt flow toward the agricultural field and village pond is prevented.
- “ Pump has been installed to lift accumulated rain water from working pit.

**Further measures have been proposed considering the capacity expansion project for both lease are i.e. 21.736ha & 6.0ha:**

- “ Regular removal of settled silt from the settling tank
- “ Construction of RCC dyke for keeping of oil & grease drums near to the mine office
- “ Construction of garland drain covering entire hillock (all around) with retaining wall is essentially required to prevent any silt containing flow of mine discharge.
- “ Construction of earthen settling tank in accordance with the contour profile of the area and network of drains should be connected to these tanks. The accumulated water may be used for dust suppression purposes also; which will help us to reduce the ground water use being used by the wells (6 no.) at present.
- “ Regular cleaning and deepening of pond is highly recommended to avoid any social issues.
- “ The overburden dumps have been observed outside of the lease area on owned land. All the dumps (7 in no.) are surrounded by the agricultural land and farming activities is being observed. It is recommended to construct garland drains around each dumps and should be connected to settling tanks and not should be left open ended. The accumulated water should be given to farmers whose land is located nearby the dump area.
- “ Since area is high hillock, mine discharge/runoff may be diverted to collection tanks, which shall be constructed according to contour profile. The same water may be pumped to the pond (02 in number) which is located at foot of the hillock adjacent to lease area. The clear water will help to raise the table of pond which is being used by the villagers throughout the year.

## Solid waste management

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During the life of mine total 5.80ha areas will be excavated and same will be reclaimed by using mine waste & OB. It is proposed to develop green belt over 6.0ha during the mine life. Presently 0.70ha (inside the ML) and 3.0 ha (outside the ML) area are covered under inactive dumps. 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

It is estimated that 80000 cubic meter weathered granite and cavity filled with murrum and clay has been generated, which has been stacked as dump at inside and outside of the quarry area. During the conceptual period, about 2078041 m<sup>3</sup> mine waste will generate and same will be dumped at outside of the quarry area.

Any forest growth has not been observed in quarry area. Lessee has already developed the 125ha land through afforestation. It is proposed to backfill the excavated pit followed by afforestation. Reclamation will start only after the full thickness of granite will be mined out. Weathered granite/mine waste will be used for backfilling and reclamation purpose.

**Measures proposed for the project are:**

- É Early stabilization of all new dumps placed outside of the lease area
- É Retaining wall at the downside of hillock has been observed, which help to prevent the flow of boulder to the agricultural field of village. The elongation of retaining wall around the hill is proposed.
- É Proper slope and benches with retaining wall for the dumps located outside to the lease area is suggested to prevent spillage of waste to agricultural land.

**Socio-economic measures and CSR**

It was reported that a Socio-economic survey was conducted in 10 villages of the study area out of total 36 villages. The proponents under the company's CSR plan identifies the needs of the surrounding villages and has developed a social management plan to benefit the surrounding areas

It was reported that, M/s Fortune Stone Ltd. has executed number of welfare activities in the area and a large numbers of community individuals have been benefitted. The activities taken up as reported are:

- É Construction of hospital building at village Kathara
- É Provision of doctor and compounder in hospital on regular basis
- É Samuhik Kanya Vivah: year 2009
- É Deeping of local pond (Kathara)
- É Provision of Doctor and Compounder in Hospital (Kathara)
- É Contributed to Local Area Development Fund
- É Regular immunization programs
- É Periodic specialist camps
- É Free medical checkup and distribution of medicines at Kathara, Marwa, Bagmau and Lovekush Nagar
- É Free drinking water supply facility to nearby villages by Tanker
- É Facilitated regular employment to 145 numbers of people based on qualification and skills

**Proposed Afforestation Plan**

Requirements of plants for afforestation/reclamation											
Year	Unworked area green belt		Outside dumps (reclaim)		bench of pit		village side		Total		
	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	

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Present	Nil	Nil	-	-	-	-	-	-	Nil	Nil
1 <sup>st</sup> to 5 <sup>th</sup>	-	-	-	-	-	-	0.2	200	0.2	200
5 <sup>th</sup> to concept ual period	-	-	5.80	8700	-	-	-	-	5.80	8700
Total	-	-	5.80	8700	-	-	0.2	200	6.0	8900

**Proposed CSR and budgetary provisions:**

Need Identified For CSR Plan	Activities	Duration	Budgetary Provision (Rs.) Per Annum
Total quality education for girls and adult education camps	Scheduled evening classes ensuring holistic quality education for drop outs or out-reach girls and adult education camps for illiterate women who have attained 30 years of age; who were not enrolled or required to be enrolled in primary school; and who: Lack sufficient of basic educational skills to enable them to function effectively in society; Do not have any diploma certificates and have not achieved an equivalent level of education; Are unable to read or write the Hindi and English Languages.	12 months	140000
Health and hygiene awareness camps and check-ups	Awareness generation and seasonal medical camps to •Keep Community disease free through prevention•. The diseases like diarrhea, malaria, dengue, hookworm etc. get spread due to irregular lifestyle and lack of knowledge. This CSR activity will be implemented taking an action in knowledge sharing how to adopt a healthy lifestyle and how to prevent unwelcoming diseases.	Quarterly	200,000
Ensuring clean water and safe sanitation practices	Education and awareness generation campaign, wall writing, village level theme camps, participatory learning & action (PLA), village and local natural resource mapping	Monthly	100,000
			8,80,000
Vocational and skill training for ST/ SC and BPL card holders	Facilitating self-employment skill generation vocational training programmes for creating better self employment ventures through inducing skill among the women of SHGs, youths & farmers of selected villages both on on-farm and off-farm activities based on need, interest and market potentiality. It will create better employment opportunities for the community.	Scheduled	300,000
Environment education & awareness including Tree	<u>Nature Study:</u> Direct, firsthand observation and active, inquiry-based learning of the Natural World. <u>Conservation Education:</u> Management and protection of Natural Resources, Bio-diversity Conservation and	12 Months	140,000

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plantation	Tree plantation <u>Outdoor Education:</u> Live together away from home and learn new outdoor-oriented skills as a way to build self-esteem and socialize the group. <u>Experiential Education:</u> Education in Behavior, Hand-on practices, Practical learning and model building.		
			8,80,000

After deliberations committee has asked the PP for submission of following:

- a. Point-wise compliance of the FC to be furnished.
- b. Commitment for converting the haul road into concrete / tar road.
- c. The hydro-geological study conducted earlier has to be reviewed and commented w.r.t. the water quality & water- table in the region.
- d. Mine is located on a hillock at about 70-80 meters from the ground level and the habitation is reported in foot of the hillock; in view of the same dust management plan to be furnished.
- e. Two mines of the same proponent are located adjacent to each other hence cumulative impact in terms of GLC of PM to be submitted.
- f. Duly verified site inspection report of MoEF in context to the compliance of EC conditions as discussed in the meeting to be furnished.
- g. It was informed by the PP that Regional Office MoEF Bhopal has inspected the site, the visit report of MoEF has to be placed before the committee.

Query response discussion and other issues could not be taken up due to shortage of time hence it was decided to include the same in next meeting.

Next Meeting was decided to be held on 26<sup>th</sup> and 27<sup>th</sup> September 2014.

Meeting ended with thanks to the Chair and the Members.

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