STATE EXPERT APPRAISAL COMMITTEE 10th January 2015
MINUTES OF 167th MEETING

The 167th meeting of the State Expert Appraisal Committee (SEAC) was held on 10th January, 2015 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. Dr. U.R. Singh, Member
4. M.P. Singh, Member
5. Dr. Alok Mittal, Member
6. 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. - 2090/2014 Mr. Manishbhai B. Shah, Partner, S.M. Dye Chem, Plot No. 240/3, GIDC Estate, Vatwa, Ahmedabad-382445** *Prior Environment Clearance for proposed S M Dye Chem Industries at Village-Meghnagar, Tehsil-Jambua, District-Dhar* **For – ToR Env. Consultant- Not disclosed.**

` Scrutiny of the project reveals several discrepancies in the submitted documents. Major discrepancies observed by the committee are as follows:

- Address of the location of proposed site is incorrect.
- At many places in the PFR name of Gujrat Ind.Dev. Corporation (GIDC) has been mentioned, whereas the project relates to Madhya Pradesh.
- Accreditation certificate from QCI could not be furnished by the consultant.

In view of above discrepancies committee asked the PP to re-submit the complete application and relevant documents to SEIAA. It was decided to return the case to SEIAA for further necessary action.

2. **Case No. - 2091/2014 Shri Sanjeev Gupta, Director, M/s Ambashakti Udyog Limited, A.B. Road, Industrial Area, Banmore, Tehsil-Morena, District-Morena, MP-476444** *Prior Environment Clearance for expansion project from 28000 TPA of TMT bar to 2,00,000 TPA billets at A.B. Road, Industrial Area, Banmore, Tehsil-Morena, District-Morena, MP-476444* **For – ToR Env. Consultant- CES, Bhopal.**

This is a project for enhancement in the production capacity of an existing TMT bar and billets unit. The project is covered under the provision of EIA Notification hence requires prior EC from SEIAA. Project proponent and his consultant presented the salient features of the project, PFR, baseline data and the proposed TOR before the committee. The presentation and the submissions made by the PP reveals following:

Environment setting

S. N	Particulars	Details
1	Latitude	26°21ô43.60ôô N
2	Longitude	78°·05ô21.90ôô E
3	Height above mean sea level	196

4	Nearest Town	Bamore - 2 Km
5	Nearest Railway Station/Town	Banmore ï 2km
6	Nearest Airport	Gwalior - 16 km
7	Nearest Highway/Road	NH-3
8	Hills/Valley	None
9	Ecological Sensitive Zone	None
10	Reserve Forest	Sanicharara RF - 4.15km - ENE Bamur Basai RF - 4.40km - WSW
11	Historical Place	None
12	Nearest River/ Nalla	Sank Nadi ï - W - 0.65km Sonrekha Nadi - ENE - 3.50km Auruwa Nalla - E - 1.0km Khiraoli Reservoir - NE - 4.40km
13	Other industries in 5 km radius	Magnum steel, Prabhu Stone, J. K. Tyre
14	Surrounding Features	North : Prabhu Stone & Open Land South : Vectus & Open Land East : NH-3 West : Open Land

Salient feature of the project

S. No.	Particulars	Details
1	Project	Existing capacity 28000 TPA of TMT Bar Proposed capacity Billets = 2,00,000 TPA TMT Bars: = 150000 TPA Steel Structure: 50,000 TPA
2	Total Power requirement for process	25 MW
3	Total Land available	60704 sq mt
4	Raw material required	For Induction Furnace Pig iron : 22000 TPA Scrap : 87000 TPA Sponge Iron : 108700 TPA For Billet Caster (CCM) Hot Metal from IF : 2,00,000 TPA For Rolling Mill TMT Bar : 150000 TPA Structure (angle and channel) : 50000 TPA
6	Source of Power	MP Electricity Board
7	Water Requirement	500 KLD
8	Source of Raw water	AKVN Supply
9	Major Plants	Induction Furnace (2No.) , CCM Pumps, Rolling Mill, Reheating furnace

		, Transformer
10	Pollution control equipment	Cyclone, Bag Filter, ID fan Chimney
11	Number and Height of Stack	2 Nos. at induction furnace and rolling mill , Height 30 Mtrs.
12	Level of particulate Matter after APC	Less than 50 mg /NM3
13	Cost of Pollution Control Equipments	Rs.108.00 Lacs
14	Number of employment generation	300 persons
15	DG set	500 KVA
16	Fuel proposed to be used	Electricity
17	Fund for CSR activities	5% of the total investment

Land use break-up

PARTICULARS	Area (In Sq. Mtr.)
Build up Area	26724
Road Development	10900
Water Storage Area	800
Fuel Storage Area	50
Green Belt	16600
Lawn & Greens	3560
Buildings	1190
Open Land	880
Total Area	60704

Raw material requirement

Raw Material	Tonnes Per Annum	Source	Mode of Transportation
Induction Furnace.			
Pig Iron	22000	Chattishgarh Orrisa	By Road
Scrap	87000	Domestic +Import	By Road
Sponge	108700	Domestic	By Road
Billet Caster (CCM)			
Hot metal produced from induction furnace division	200000	In House	Nil
Rolling Mill			
TMT bar	150000	In-house + Market	
structure (angle & channel)	50000	Inhouse + Market	By Road

Air emission control system

SN	Source Of Air Pollution	Pollution Control Equipment	Height Of Stack
1	Induction Furnace	Cyclone, Filter Bag, ID Fan	30 Mtr
2	Re-heating Furnace	Scrubber	30 Mtr

Water requirement and sources

The water requirement for plant is proposed to be sourced through AKVN Supply

Water Balance

Water Consumption In KLD			Waste Water Generation In KLD		
	Existing	Proposed		Existing	Proposed
Domestic	3.00	14.7	Domestic	2.50	13
Cooling Tower	59.80	485	Cooling Tower	2.90	15
DM water	0.20	0.3	DM water	0.10	0.2
Total	63	500	Total	5.50 say 6.0	28.2 say 29

- Wastewater from DM/Softner mixed with raw water and used for gardening/dust suppression.
- Waste Water Treatment ï STP of 25m³/ day and ETP of 20 cum shall be constructed
- Dry technology will be implemented, hence there will not be any effluent generation from the process & cooling
- Water harvesting structure shall be constructed and harvested through the structure
- ZERO discharge shall be implemented ..

Solid & hazardous Waste Management

Source Generation	Type Of Waste	Quantity	Management
Process	Plant dust, Mill scale, papers	5.0 TPA	Segregation at source using dust beans and collection at ñvalue yardò selling to local vendor
Process	Iron Slag	18000 TPA	A unit of iron recovery from slag shall be installed and the recovered iron shall be used with scrap to charge in induction furnace. The remaining part shall be used for civil work & bricks manufacturing.
DG Set / Transformer	Spent oil	10 kl / yr	Shall be given to authorized recyclers.
WTP/ CT	Resin	2 kl/yr	Shall be given to authorized recyclers.

NOISE POLLUTION CONTROL MEASURES

Following management practices have been observed for the present operation.

- To mitigate the impact of noise from process equipments during the operational phase the following measures shall be Implemented
- Provision of noise shield
- DG set will have inbuilt enclosures
- Use of personal protective devices such as ear-muffs, ear-plugs etc. will be strictly enforced for the workers engaged in high noise areas .
- Ear plugs, Ear muff shall be provided to the workers in noise prone areas.
- Green belts shall be developed in and around plant premises. Sufficient green belt shall be provided to control noise emission.
- The Ambient noise levels will be less than 75 dBA (during day time) and less than 70 dBA during night time.

Afforeataion plan

Year	**Area (sq mt)**	**Number of Plants**
Existing	Nil	Nil
1st Year	3000	450
2nd Year	3000	450
3rd Year	5000	750
4th Year	5600	800
Total	16600	2450

Base line data

It was reported by the PP that baseline data of the region has already been started

After deliberations committee approved the proposed TOR with inclusion of following terms of reference for carrying out EIA study and preparation of EMP:

1. Detailed plant lay out along with the lay-out of the industrial area to be furnished.
2. Details of the storage areas including the areas marked for storing wastes.
3. Inventory of all the chemicals proposed to be used in the process including the water-softening chemicals.
4. Water requirement for the project and clear source of the same with permissions for the same from competent authorities.

3. **Case No. - 2128/2014** **Mr. Shiv K. Bahl, Head Government Relations (State), Plot No. A-41, NDO, Industrial Area, Phase-8A, SAS Nagar, Mohali, Punjab-160071** *Prior Environment Clearance for proposed Bulk Drug and Intermediates at Village-Malanpur, Tehsil-Gohad, Bhind (MP)* **For – ToR Env. Consultant- Not disclosed.**

This is a bulk drug & intermediates manufacturing unit proposed in the Malanpur Industrial Area, Village- Malanpur, Tehsil- Gohad Distt. Bhind. The activity is mentioned at S.N. 5 (f) in the Schedule of the EIA Notification. Hence it requires prior EC before commencement of activity at site. The application has been forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the environmental impacts expected from the project. The salient features of the project were presented by the PP and his consultant before the committee in this meeting.

After deliberations proposed TOR was approved by the committee with inclusion of following points in the EIA study:

1. Provision of ógreen-beltô all around the periphery of the proposed plot to be made.
2. Details of fire-fighting system proposed with risk-assessment study and proposed on-site emergency plan.
3. Recent MSDS of all the raw materials / solvents to be furnished.
4. Lay-out of the Industrial Estate showing location of other industries, with inventory of the industries in 500 meters around the proposed plot.
5. Copy of Registration letter issued from the Industries Department.
6. Details of LNG connectivity with safety measures proposed in this regard.
7. DG-set details with air / noise pollution control details.
8. Justification for installing 03 boilers.
9. Design of Hazardous Waste Incinerator with inventory of hazardous wastes planned to be incinerated in the same. Air Pollution Control measures proposed with these incinerators to be furnished.
10. Worst case scenario with respect to water, air pollution and hazardous-waste generation to be presented. The mitigation measures to detailed out, assuming that the entire plant is producing product(s) responsible for worst environmental scenario.
11. All vents to be connected to a common duct with ultimate safe disposal of the toxic fumes ï appropriate scheme in this regard to be furnished.
12. List of solvent with product-by-product solvent balance/ water-balance and material-balance to be included.
13. Explore the possibility of putting some device so as to monitor/detect the concentration of toxic fumes in the work-zone on continuous basis.
14. VOCôs to be monitored and reported in the baseline AAQ data.
15. Other standard TORsô shall be applicable.

4. **Case No. - 2129/2014 Mr. Vijay Singh Rawat, General Manager and Plant Head, Ranbaxy Laboratories Limited, 5,6,7 & 10 Ghirongi Industrial Area, Village-Malanpur, Tehsil-Gohad, Bhind (MP)-477117** *Prior Environment Clearance for approval of modernization of existing consent at Village-Malanpur, Tehsil-Gohad, Bhind (MP)* **For – ToR Env. Consultant- Not disclosed.**

This is an application submitted for EC on the proposed modernization of existing bulk drug manufacturing unit. The case was presented by the PP and his consultant. It was reported that the industry has already carried out the proposed modernization in compliance of the consent conditions issued by the MPPCB. The matter has been submitted to SEIAA for EC on directions of MPPCB. Going through the presentation and submissions made by the PP and his consultant committee decided that following details may be obtained from MPPCB before any further action in the matter:

- What changes in product-mix / modernization have been allowed to the industry after September 2006?

- What changes in pollution-load with changed product-mix / modernization have been observed by the MPPCB?
- Has industry violated the provisions of EP (Act) at point of time-details thereby and the action taken (if any).

The case shall be considered for further action after receiving above information from MPPCB.

5. **Case No. – 2035/2014 Shri Mohit Singh Tomar, Senior Executive, M/s AIMS Promoters Pvt. Ltd., 107/1, Birla Nagar, Gwalior (MP)-474002** *Environmental Clearance for approval of proposed residential project at Village-Sigora & Jebra, Tehsil & District-Gwalior (MP)* ***Total Plot Area - 534930 M^2 or 132.129, acres.*** **For- Building Construction. Env. Consultant: Kadam Env. Con. Delhi.**

This is building construction project covered under EIA notification. By virtue of the dimension of the plot area and the built-up area the project is covered under the item 8(b) of the schedule of the notification, hence it requires prior EC from the SEIAA before commencement of the activity at site. The salient features and the proposed TOR were presented by the PP and his consultant.

After deliberations committee approved the proposed TOR with inclusion of following additional TORs, to carry out EIA study and prepare EMP:

1. Road net-work to transport materials to be furnished.
2. Materials proposed to be used in the roads.
3. Details of dual-plumbing.
4. Details of sewage / MSW / BMW management during construction as well as during operation phases.
5. Strom-water management in the project.
6. Details of green area / cover to be furnished with map depictions.
7. Water / electricity complete details including the connectivity/ net-working etc.
8. Locations of Mobile Towers.
9. Land-use & land-cover details in 10 Km radius around the site with micro-level details of 2-5 Km area around the proposed site.
10. Details of high-tension power line (s) / natural nalla/streams etc. passing across the site or nearby the site.

6. **Case No. – 2036/2014 Shri Vivek Chugh, Director, 503, Chugh Reality, Scheme No. 54, Orbit Mall, Vijay Nagar, A.B. Road, Indore (MP)-452010** *Environmental Clearance for approval of proposed residential project "Grande Exotica" Village-Bicholi Mardana, Tehsil & District-Indore (MP)* ***Total Plot Area - 26660 Sq.m.,*** **For-Building Construction. Env. Consultant : Kadam Env. Con. Delhi.**

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

7. **Case No. - 2070/2014 Mr. Wasiq Hussain, Partner, Lake Land Builders and Developers, Pearl Centre, Near Shree Institute of Technology, Behind Sant Asaram Asharam, Gundermau, Gandhi Nagar, Bhopal-462036 (MP)** *Environmental Clearance for approval of proposed residential*

project "Lake Pearl Magestic" at village-Neori, Tehsil-Huzur, Bhopal (MP) **For–Building Construction. Env. Consultant-EQMS India Pvt. Ltd. Delhi.**

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

8. **Case No. - 2092/2014 Shri Sanjeev Sabharwal, Partner, M/s SARC Infrastructure & Technology, Near Bawarchi Restaurant, Hoshangabad Road, Bhopal-462026** *Prior Environment Clearance for approval of proposed commercial project "Pacific Business Centre" at Vill.-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (MP)* **For – Building Construction. Env. Consultant-In Situ Enviro Care, Bhopal.**

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 monthôs time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

9. **Case No. – 1713/2013 M/s Sharda Maa Enterprises Pvt. Ltd., Kanchenjunga Building, UGF 1 & 2, 18 Barakhamba Road, New Delhi - 110001** *Bijuri Coal Beneficiation Lease Area – 8.1 ha., Capacity – 0.9MTPA Coal Washery at Khasra No. – Village – Mantola, Tehsil – Kotma, Distt. – Anuppur (M.P.)* **For-EIA Presentation. Env. Consultant: EMTRC Consultant Pvt. Ltd., Delhi. ToR (139 Meeting) letter issued letter no. 728 dt. 11/10/13**

PP requested for considering the case in the meeting scheduled for 11/01/15. Committee accepted the request subject to availability of time.

10. **Case No. 669/2012- Sh. Pawan Kumar Ahluwalia, M.D. , M/s K.J. S. Cement Ltd., N.H.-7, Village- Amiliya, Lakhwar Tehsil - Maihar, Distt. - Satna(M.P.)** *Bhatia Limestone Mine at Khasra No 1014, 1015, 1029, 1031, 1032, 1035, 1036, 1037, 1039, 1040, 1047, 1048, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1103, 1105, 1106, 1107, 11161118, 1121, 1123, 1124, 1125, 1126. Village – Bhatiya, Tehsil – Maihar, Distt.- Satna (M.P.) Capacity - 5.0 lacs TPA, Lease Area - 45.888 ha.* **For – EIA Presentation. ToR (95) issued letter no. – 317 dt. 22/06/12 Env. Cosultant- CES, Bhopal(M.P.)**

This is a mining project in an area of 45.888 Ha. The minerals proposed for mining is limestone with production capacity of 5,00,000 TPA. The project falls under category B-1 of the schedule of EIA Notification and requires prior EC under the provisions of said notification. The application of the PP was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The salient features and the locational aspects were presented by the PP and his consultant before the committee in 167th meeting dated 10th December, 2014.

Location and Approach

- Site : Village - Bhatia
- Tehsil : Maihar
- District : Satna
- Location : Toposheet No. 63D/15, 63D/16
- Land Use : Own Land
- Khasra No. : 1014, 1015, 1029, 1031, 1032, 1035, 1036, 1037, 1039, 1040, 1047, 1048, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1103, 1105, 1106, 1107, 1116, 1118, 1121, 1123, 1124, 1125, 1126
- Latitude : $24^0$17ô08.4ò - $24^0$17ô39.2òN
- Longitude : $80^0$53ô40ò - $80^0$54ô06.5òE
- Road Connectivity: NH-7

Public Hearing Details

- Public consultation has been conducted by SPCB on 31.10.2014 at Mine Premises, Bhatia, Tehsil Maihar, Dist. Satna (MP) by ADM, Satna
- 114 peoples have attended the hearing and observed that people of nearby areas are in favour of mining project as they will get employment from it. Eleven of them registered their opinion in writing.
- It was reported that the issues raised were duly addressed and clarified
- No adverse comments have been observed / received during the Public Hearing.

Mineable reserves and anticipated life of the mine:

The proved and probable reserves have been considered for the total mineable reserves. The updated mineable reserves are to be tune of 12789348 MT.

Estimated Mine life is 30 year form start the mine

Production schedule –

- Mining capacity ï 5,00, 000 TPA.

Mining Method

- 11.48 ha area has been excavated till date
- There are three pits in the ML area. The ultimate depth of excavated pit is varies from 1m to 7m.
- The mining operations are proposed at the western part of pit-1 with one production bench in Limestone.
- The bench advancement will be N-S thus during the production phase the RL will reach from 350m to 344m.
- During the next five-year no additional area will be broken
- The overall pit slope will be 45 degree.
- Regular drilling will be done for heaving purpose in the lease area. Blasting will be done on regular basis.
- Random holes of large dia 100mm with 6m deep hole drilling will be done
- Old Pit No. 2 (80 x 50 x 7m), which is located at South side of the lease area will be converted as settling tank
- During the mine life about 34.6705ha area will be excavated upto 321mRL whereas surface mRL is 349m.
- Out of 34.6705ha excavated area, 8.09 ha area will be backfilled and afforested while 24.4255ha area will be converted as water body

Details of existing pits

Pit	Location	Avg. Size in m	Logging-Avg.
Pit Q-I	North to Central part	600 X 180 X 1-6	1-3M:Soil 1-6M : Limestone
Pit Q-2	South	80 X 50 X 7	
Pit Q-3	SW	140 X 20 X 2	

Salient features of the project:

S. No.	Particulars	Details
1	Type of Mine	Open Cast
2	Mining Lease Area	45.888 ha
3.	Mineable Area	45.888 ha
4.	Existing Pits & Quarries	11.48 ha
5.	Existing Dumps	3.10 ha
6.	Infrastructure and road	Nil
7.	Mineral Storage	Nil
8.	Plantation	Nil
9.	Barren Land	31.308 ha
10.	Recoverable Reserve	12789348 MT
11.	Method of mining	Fully mechanised
12.	Ultimate Depth of Mining	22m bgl (327mRL)
13.	Ultimate Pit Slope	45^{o}
14.	Expected Life of Mines	30 years
15.	Lease Period	20 year upto 2031
16.	Thickness of soil	
	Minimum	2.0 m
	Maximum	5.0 m
17	Stripping Ratio	Nil
18	Existing mode to transportation	Road
19	Area to be covered under dumps in conceptual period	nil
20	Area covered under pit in conceptual period	34.6705 ha
21	Area to be reclaimed by conceptual period	8.09 ha
22	Area to be covered under plantation by conceptual period	16.0ha
23	Area to covered under water reservoir	24.4255 ha
24	AMSL	353-349m
25	Ground water table	
	Monsoon period	29m bgl (320 AMSL)
	Dry month	39m bgl (310 AMSL)

Conceptual plan of the project

Items	Existing	At the end of lease period
Total lease area	**45.888ha**	
Ultimate depth of mining	1-7m	22m bgl (327mRL)
Ultimate pit slope	45 degree	45 degree
Area under dumps	3.10 ha	Nil
Area under pits	11.48 ha	34.6705 ha
Area to be reclaimed	Nil	8.09 ha
Infrastructure & Road	Nil	0.01 ha
Mineral storage	Nil	Nil
Plantation	Nil	16.0ha
Water body	0.4ha	24.4255ha

Environmental setting of the project

S. No.	Particulars	Details
1.	Locations	
	Village	Bhatia
	Tehsil	Maihar
	District	Satna
	State	MP
2.	Latitude Longitude	$24^0$17ô8.4ò TO 24^0 17ô39.2ò North $80^0$53ô40ò TO $80^0$54ô06.5ò East
3.	General ground level	350m
4.	Elevation range	Highest - 353m RL Lowest - 349m RL
5.	Nearest National/state Highway	NH-7 - 0.44km - S
6.	Nearest Railway Station	Maihar - 13.5 km
7.	Nearest Airport	Khajuraho - 100.0km
8.	Nearest Tourist Place within 10km radius.	None
9.	Archaeological Important Place within 10km radius.	None
10.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
11.	Reserved / Protected Forest within 10km radius	None
12.	Nearest major city with 100000 population within 10km radius	Nil
13.	Nearest Town/City within 10km radius	Amarpatan ï 9.25km - E
14.	Nearest Village	Barahia - 0.4 km - SSW
15.	Nearest River	Tamas River - 9.75km - NW
16.	Nearest Nalla	Serainjl Nalla -3.5km - SSW Bakali Nalla -0.4km -W Gobarhari Nalla -1.0km - NNE Koriha Nalla -7.0km - NE Junneh Nalla -7.25km - NE Jhinna Nalla -4.0km - E Manhi Nalla -7.0km -NW Gadha Nalla -4.5km -W Local Pond -0.3km -S
17.	Nearest Hill Ranges	No
18.	Industry within 10km radius	None (M/s KJS Cement Ltd., Amaliya- 10.75 km)

Environment Management Plan:

Air pollution control measures

1. Dust suppression over the haul roads by carrying out water sprinkling.
2. Old dumps (8 in numbers) have been temporary stabilized. It is desirable to plant the legumes and grasses earliest to prevent the erosion of soil and to arrest the dust emission during windy days till the re-handling of the same dumps will be done. Over burden dumps will not be left for longer period and will be used for reclamation purposes. As stated in mining plan, re-handling and backfilling will be started from second year onwards, which should complied strictly.

3. Haulage of ROM to the proposed cement plant will be done by dumper. After excavation, mineral will be transported to the cement plant by hired/own dumper (30t capacity). The approach road is kucha which is having distance of 0.44 km up to NH from lease area to NH is about 0.44 km, hence water spraying is suggested on same road as a part of mitigation measures before movement of dumps.
4. It is expected that the same road will be made as paved road by the lessee. Alternate road for transportation purposes may be explored to avoid any conflict with the villagers.
5. It is highly recommended to start the green belt development, prior to environment clearance towards the workerôs habitation near to the lease area.
6. Green belt development along the roads, lease periphery, benches and over the backfilled area is also recommended.
7. Green belt development need to be taken up immediately towards SSW direction where Barahia village is observed
8. Proper maintenance of haulage roads, which shall be used for transportation of material
9. Dust mask need to be provided to all workers, but wearing of the same should be made compulsory.
10. Water spraying during the drilling, for reduction in dust emission
11. Proper maintenance of haulage roads, which shall be used for transportation of material
12. Controlled and confined blasting by using latest technique

Cumulative Impact Of Predicted MGLC From 45.888ha And 7.102ha By Open Pit And Line Source Emission

Pollutant	Incremental value of PM_{10} $\mu g/m^3$ from 7.102ha Barahia Mine	Incremental value of PM_{10} $\mu g/m^3$ from 45.888ha Bhatia Mine	Total Incremental value	98th PM_{10} at Barahia Village	Total PM_{10} after incremental value $\mu g/m^3$	CPCB standard
I st Max for 1hrs value	3.41	5.09	8.50	70.00	78.50	100 ($\mu g/m^3$)

Water Pollution Control Measures

- There is no water course in the lease area. The main drainage of the area is through Bakoli Nalla in west at 400 m distance. The water table in the lease area varies from 29m to 39m where as mining will be done up to avg. 22m depth thus ground water table will not touched during lease period.
- Following measures will be taken to mitigate the water pollution**:**
- Pump having required capacity (10HP) will be installed to lift accumulated rain water from working pit.
- During lease period out of 34.6705 ha excavated area, 24.4255ha area will be converted as a water reservoir.
- Garland drain will be made in boundary covering northern, southern and eastern part to prevent siltation in to nalla. The length of the drain is proposed to be 1000mt which shall be connected to settling tank.
- Desiltation of Pond (twice in years) and nalla (twice in year) is recommended considering the village
- Water spraying before the movement of dumper is recommended for suppression of dust over the kuchha road.
- No further dumping will be carried out in lease area. To reduce suspended solids, or dust coming to mine pits, garland drains shall be provided at around the pit. All garland drain will be contacted to

settling tank and water of settling tank will be used for dust suppuration and agricultural purpose. Old Pit No. 2 (80 x 50 x 7m), which is located at South side of the lease area will be converted as settling tank.

- Å Quality of water accumulated in the working pit may be checked during monsoon
- Å It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system is available

Noise Pollution Control Measures

Following management practices have been observed for the present operation.

- Å Row of trees need to be planted all around mine premises to reduce propagation of noise and dust due to blast outside the lease;
- Å No blasting shall be done when the sky is clouded as cloud cover can cause reflection of pressure wave back to the ground level at some distance from the blast
- Å The workforce working at the mining face, where high noise level is expected, shall be provided with protective device for occupational safety, however itôs wearing should be made compulsory to them.
- Å Inspection and maintenance scheduled need to be nicely formulated and strictly adhered to.
- Å Noise generating machinery, should strictly be in compliance with the recommendations of the manufacturers. This would ensure an installation free from vibration and exhaust leaks which are also major contributors to increased noise levels
- Å Provision of insulating caps and aids at the exit of noise source on the machinery
- Å Green belt development will also muffle the noise to a great extent.
- Å Maintenance of machines and vehicles will be carried out regularly. The scheduling of frequency is needed attraction.
- Å Use of physical barriers and green belt development around the mine to restrict the noise from going outside the mine boundary during operation

Solid Waste Management

- Å During the past mining about 57400 cubic meter soil and 217282 cubic meter interlarded shale waste has been generated and same has been stacked as dump in inside the pit and outside of the pit. Presently 3.10ha area has been covered under inactive dumps. During the first five year, accumulated mine waste which is located within pit will be re-handled and same will be used for backfilling purpose. During the proposed five years working, only 12% mine waste will be generated, which is negligible and same will be used for maintenance of haul road. During the 5th year to mine life about 463810cum of soil will be generated. The total OB/waste generated will be simultaneously backfilled in excavated area during conceptual period. No dumping has been proposed
- ➢ The existing old dumps within five year working will be re-handled and shifted to SE direction, the details are under

Year	Dump no (in pit dumps)	Volume of dump	Re-handled dump size-RD-1	Location	Remarks
11-12	D1 (part) = 18900M^3, D2 = 24300M^3, D3 = 2916M^3, D7 = 3150M^3	49266	44766M^3 = 136M X 70M X 4-5M 4500M^3 will be used for backfilling be excavation	SE part of the lease area	At the end of five year one dump of 136 X 70 X 6-7 will be generated which will be re-handled during the
2012-13	D4 = 2886M^3	2886	136MX70MX5-5.5M	SE part of the lease area	
13-14	D5 = 1350M^3 D6 = 5880M^3	7230	136MX70MX6-7M	SE part of the	

				lease area	conceptual
14-15	D8 = 1810M^3	1810	136MX70MX6-7M	SE part of the lease area	period for backfilling
15-16	Nil	Nil	NIL	Nil	

Re-handled waste dump (location: South part)

A	**B**			**C**		**D**		
Year	**size of dump Portion at the begining of the year**			**Quantity dumped**	**Cumulative quantity dumped**	**Size of dump Portion at the end of the year**		
	Bottom area M^2	Top area M^2	Avg. height / thickness-M	M^3		Bottom area M^2	Top area M^2	Avg. height/ thickness-M
11-12	-	-	-	46557	46557	9520	8758	4-5
12-13	9520	8758	4-5	3001	49558	9520	8144	5-5.5
13-14	9520	8144	5-5.5	7519	57077	9520	7330	6-7
14-15	9520	7330	6-7	2027	59104	9520	6450	6-7
15-16	9520	6450	6-7	-		9520	6450	6-7

Year	**size of backfill Portion at the begining of the year**			**Quantity dumped during the year M^3**	**Cumulative quantity after SW and CF will be dumped**	**Size of backfill area Portion at the end of the year**		
	Bottom area M^2	**Top area m^2**	**Avg. Height / thickness-m**			**Bottom area M^2**	**Top area m^2**	**Avg. Height/ thickness-m**
11-12	-	-	-	4500m3	4500m3	$900m^2$	$900m^2$	3-7
12-13	$900m^2$	$900m^2$	3-7	-	4500m3	$900m^2$	$900m^2$	3-7
13-14	$900m^2$	$900m^2$	3-7	-	4500m3	$900m^2$	$900m^2$	3-7
14-15	$900m^2$	$900m^2$	3-7	-	4500m3	$900m^2$	$900m^2$	3-7
15-16	$900m^2$	$900m^2$	3-7	-	4500m3	$900m^2$	$900m^2$	3-7

Environmental monitoring programme

S. No.	**Environmental Attributes**	**Locations**	**Parameters**	**Period and Frequency**
1	Ambient Air quality	• Mine Site • Barhia • Bhatia • Nandan	PM_{10}, SO_2, NOx, CO and as directed by MPPCB	24 hr. average samples every month during mining phase
2	Ground water	Existing hand- pump at lease area and well/handpump of Barhia	Drinking Water parameters as per IS 10500	Pre Monsoon and Post Monsoon
3	Surface water	Mine pit, Pond, Bakuli Nalla	pH, conductivity, Alkalinity, TS, TDS, TSS, Total hardness, Cl, SO_4, Ca, Mg, K, Na, Zn,	Pre Monsoon and Post Monsoon

S. No.	Environmental Attributes	Locations	Parameters	Period and Frequency
			Al, Fe, Total	
4	Ambient Noise	Mine site (near the working pit during excavation, Drilling, Blasting and around the lease periphery) total 04 point	dB (A) levels	Hourly day and night time Leq levels every quarter
5	Mines discharge into drains	Settling tank & garland drain of lease area	pH, conductivity, Alkalinity, TS, TDS, TSS, Total hardness, Cl, SO_4, Ca, Mg, K, Na, Al, Fe, Zn, Total Coliform	Pre and Post Monsoon
6	Soil Quality	In and around the site	Organic matter, C, H, N, alkalinity, Acidity, heavy metal	Annual

Budget for Environmental Protection

S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
1	Air pollution monitoring	2.0	Cost includes water spraying arrangement	2.20 (Rs 4500/- per sample)	Expected cost includes regular monitoring by approved third party
2	Water pollution monitoring	6.0	Include cost of septic tank, garland drain, Settling tanks (5 no.)	1.0 Rs 3500/- per sample for G/w, S/w, M/D etc)	Expected cost includes regular monitoring by approved third party
3	Noise pollution monitoring	Nil	-	0.25	Expected cost includes regular monitoring by approved third party
4	Solid and hazardous waste management	3.0	Capital cost include cost of RCC dyke for keeping of oil drums	0.25	Expected cost of cleaning and maintenance
5	Environmental Monitoring and management	1.5	-	2.0	Recurring cost would incur on hiring of consultants for environmental management

S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
6	Plantation at Site	3.0	Plantation in and around site	1.5	Maintenance of plantation
7	De-siltation of pit and ST	-	-	2.0 (0.50 per quarter)	Quarterly basis
	Total	**15.5**		**9.20**	

Existing and Proposed Afforestation plan

Environment impact & management: ecology: stage wise cumulative plantation										
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**
Present	Nil	Nil	-	-	-	-	-	-	Nil	Nil
1st to 5th	0.20	300	0.09	150	-	-	0.3	450	0.59	900
5th to mine life	4.80	7200	8.00	12000	2.155	3232	0.455	680	15.41	23112
Total	**5.0**	**7500**	**8.09**	**12150**	**2.155**	**3232**	**0.755**	**1130**	**16.0**	**24012**

Budget Allocation for Plantation

A separate budget shall be made for plantation/ Green belt development Plan.

S. No.	Head	Qty	Rate (Rs.)	Amount (Rs.)
1st Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
2nd Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
3rd Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
4th Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per	60,000/-

			month	
			Total	**77,600/-**
5th Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
			Grand total	**3,88,000/-**

CSR Action Plan ensuring socioeconomic benefits

S. No	Need Identified For CSR Plan	Activities	Duration	Frequency	Budgetary Provision (Rs.)
1)	Total quality education support to primary education	Education resource material and infra-structural support, mainstreaming education for drop outs or out-reach girls and their enrollment in primary school	12 months	Regular	50,000
2)	Provision of healthcare facilities for elderly, mother and newborn child	Seasonal medical camps targeting health issues related to mother and newborn child related and health problems of elderly people. 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	Four camps a year	80,000
3)	Personal health, hygiene and sanitation related community support	By keeping in mind, the unsafe sanitation related problems of women, the facilitation of community toilet infra-structure will be done including awareness generation campaign, wall writing, village level theme camps etc.	Quarterly	Scheduled	100,000
4)	Maintenance of narrow roadways and incorporation of plant saplings	The time to time maintenance of narrow roadways connoting people from cities and incorporate various saplings roadside area used for the transportation sequentially.	-	Scheduled	70,000
Total					**300,000**
Fund for Proposed CSR programme as suggested by Gram Panchayat					**2,00,000**

After deliberations the case was recommended for grant of prior EC subject to the following special conditions:

- A minimum of 22 meter wide thick green belt shall be developed all around the premises.
- The entire plantation should be taken up in the first year itself along with the mining with plantation of local species of at least 03 years old saplings with casualty replacement.
- Pond deepening shall be taken up through de-sludging of the same.
- Hydro-geological studies shall be done every three years.
- Satellite imagery every three years.
- PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.

11. **Case No. 670/2012 Sh. Pawan Kumar Ahluwalia, M.D. , M/s K.J. S. Cement Ltd., N.H.-7, Village- Amiliya, Lakhwar Tehsil - Maihar, Distt. - Satna(M.P.)** *Barahia Limestone Mine at Khasra No. 229 - 250, 344-359, 364-380, 411, 412, 413, 414/1- 2, 415, 416, 417, 418/2,418/1, 419, 420, 421, 422, 423/2, 424 Village – Barahia, Tehsil – Maihar, Distt.- Satna (M.P.) Capacity- 30,000 TPA , Lease Area – 7.102 ha.,* **For – EIA Presentation. ToR (95) issued letter no. – 319 dt. 22/06/12 Env. Cosultant- CES, Bhopal(M.P.)**

This is a mining project in an area of 7.102 Ha. The minerals proposed for mining is limestone with production capacity of 30,000 TPA. The project falls under category B-1 of the schedule of EIA Notification and requires prior EC under the provisions of said notification. The application of the PP was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The salient features and the locational aspects were presented by the PP and his consultant before the committee in 167th meeting dated 10th December, 2014.

Location and Approach

- Site : Village - Barahia
- Tehsil : Maihar
- District : Satna
- Location : Toposheet No. 63D/15, 63D/16
- Land Use : Own Land
- Khasra No. : 229, 230, 231,232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249,250, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 411, 412, 413, 414/1-2, 415, 416, 417, 418/2, 418/1, 419, 420, 421, 422, 423/2, 424
- Latitude : $24^0$17ô04.5ò To $24^0$17ô15.1ò North
- Longitude : $80^0$53ô28.2ò To $80^0$53ô41.8ò East
- Road Connectivity: NH-7

Public Hearing Details

- Public consultation has been conducted by SPCB on 31.10.2014 at Mine Premises, Bhatia, Tehsil Maihar, Dist. Satna (MP) by ADM, Satna
- 113 peoples have attended the hearing and observed that people of nearby areas are in favour of mining project as they will get employment from it. Elevan of them registered their opinion in writing.
- It was reported that the issues raised were duly addressed and clarified
- No adverse comments have been observed / received during the Public Hearing.

Mineable reserves and anticipated life of the mine:

The proved and probable reserves have been considered for the total mineable reserves. The updated mineable reserves are to be tune of 553508 MT.

Mine life estimated by taking mineable reserves and maximum yearly production of Limestone is 30,000 MT per year.

Total Mineable Reserve is 553508T

Thus first five year Production= 109080T
Balance Reserves = 553508-109080= 444428MT
Life = 444428/30000= 14.81 year.

Thus Total Mine Life = 14.81+5=19.81 say 20 year form start the mine

Production schedule –

- Mining capacity ï 30,000 TPA.

Mining Method

- 6.5 ha area has already been excavated till date
- There is only one pit in the ML area. The ultimate depth of excavated pit is 10m.
- The mining operations are proposed at the western part with one production bench in Limestone.
- The bench advancement will be N-S thus during the production phase the RL will reach from 340m to 334m.
- During the next five-year no additional area will be broken
- Regular drilling will be done for heaving purpose in the lease area. Blasting will be done on regular basis.
- Random holes of large dia 100mm with 6m deep hole drilling will be done
- South east side of the lease area will be converted as settling tank
- During the mine life about 6.56ha area will be excavated upto 321mRL whereas surface mRL is 347m.
- Out of 6.56ha excavated area, 2.7212 ha area will be backfilled and afforested while 3.2888ha area will be converted as water body

Details of Exisng Pits

Pit/Working pit	Size in ha
Quarry-1	6.5 x 1-9

Salient features of the project:

S. No.	Particulars	Details
1	Type of Mine	Open Cast
2	Mining Lease Area	7.102 Ha
3.	Mineable Area	6.56 Ha
4.	Existing Pits & Quarries	6.5 ha
5.	Existing Dumps	Nil
6.	Infrastructure and road	0.01 ha
7.	Mineral Storage	Nil
8.	Plantation	Nil
9.	Barren Land	0.592 ha
10.	Recoverable Reserve	553508 tonnes
11.	Method of mining	Fully mechanised
12.	Ultimate Depth of Mining	26m bgl (321mRL)
13.	Ultimate Pit Slope	45^{o}
14.	Expected Life of Mines	20 years
15.	Lease Period	20 year upto 2031
16.	Thickness of soil	
	Minimum	0.0 m
	Maximum	1.0 m

17	Stripping Ratio	Nil
18	Existing mode to transportation	Road
19	Area to be covered under dumps in conceptual period	Nil
20	Area covered under pit in conceptual period	6.56 ha
21	Area to be reclaimed by conceptual period	2.7212 ha
22	Area to be covered under plantation by conceptual period	3.2712ha
23	Area to covered under water reservoir	3.2888 ha
24	Average mRL	347AMSL
25	Ground water table	
	Monsoon period	27m bgl (320mRL)
	Dry month	37m bgl (310mRL)

Conceptual plan of the project

Items	Existing	At the end of lease period
Total lease area	**7.102ha**	
Ultimate depth of mining	1-9m	26m bgl
Ultimate pit slope	45 degree	45 degree
Area under dumps	Nil	Nil
Area under pits	6.50 ha	6.56 ha
Area to be reclaimed	Nil	2.7212 ha
Infrastructure & Road	0.01 ha	0.01 ha
Mineral storage	Nil	Nil
Plantation	Nil	3.5712 ha
Water body	2.7212 ha	3.2888 ha

Environmental setting of the project

S. No.	Particulars	Details
19.	Locations	
	Village	Barahia
	Tehsil	Maihar
	District	Satna
	State	MP
20.	Latitude Longitude	$24^0$17ô04.5ò To $24^0$17ô15.1ò North $80^0$53ô28.2ò To $80^0$53ô41.8ò East
21.	General ground level	347m
22.	Nearest National/state Highway	NH-7 - 0.44km - S
23.	Nearest Railway Station	Maihar - 13.5 km
24.	Nearest Airport	Khajuraho - 100.0km
25.	Nearest Tourist Place within 10km radius.	None
26.	Archaeological Important Place within	None

	10km radius.	
27.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
28.	Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	None
29.	Nearest major city with 100000 population within 10km radius	Nil
30.	Nearest Town / City within 10km radius	Amarpatan ï 9.25km - E
31.	Nearest Village	Barahia - 0.3 km -S
32.	Nearest River	Tamas River - 9.75km -NW
33.	Nearest Nalla	Serainjl Nalla - 3.0km -SSW Bakali Nalla - 0.1km -N Gobarhari Nalla - 1.0km -NNE Koriha Nalla - 7.0km - NE Junneh Nalla - 7.25km - NE Jhinna Nalla - 4.0km -E Manhi Nalla - 7.0km -NW Gadha nalla - 4.5km -W Local pond - 0.2km -S
34.	Nearest Hill Ranges	No
35.	Other mines within 10km radius	Cluster of mines
36.	Industry within 10km radius	None (M/s KJS Cement Ltd., Amaliya-10.75km)

Cumulative Impact Of Predicted MGLC From 45.888ha And 7.102ha By Open Pit And Line Source Emission

Pollutant	**Incremental value of PM_{10} $\mu g/m^3$ from 7.102ha Barahia Mine**	**Incremental value of PM_{10} $\mu g/m^3$ from 45.888ha Bhatia Mine**	**Total Incremental value**	**98th PM_{10} at Barahia Village**	**Total PM_{10} after incremental value $\mu g/m^3$**	**CPCB standard**
I st Max for 1hrs value	**3.41**	**5.09**	**8.50**	**70.00**	**78.50**	**100 ($\mu g/m^3$)**

Water Pollution Control Measures

- There is no water course in the lease area. The main drainage of the area is through Bakoli Nalla in north at 100 m distance. The water table in the lease area varies from 27m to 37m where as mining will be done up to avg. 21m depth thus ground water table will not be intersacted during lease period.
- Following measures will be taken to mitigate the water pollution**:**
- Pump having required capacity (10HP) will be installed to lift accumulated rain water from working pit.
- During lease period out of 6.56 ha of excavated area, 3.2888ha area will be converted as a water reservoir.
- Garland drain will be made in boundary covering northern, southern and eastern part to prevent siltation in to nalla. The length of the drain is proposed as 1000mt which shall be connected to settling tank.

- Desiltation of Pond (twice in years) and nalla (twice in year) is recommended considering the village
- Water spraying before the movement of dumper is recommended for suppression of dust over the kuchha road.
- No further dumping will be carried out in lease area. To reduce suspended solids, or dust coming to mine pits, garland drains shall be provided at around the pit. All garland drain will be contacted to settling tank and water of settling tank will be used for dust suppuration and agricultural purpose. All garland drain will be contacted to settling tank and water of settling tank will be used for dust suppuration and agricultural purpose. South east side of the lease area will be converted as settling tank. .
- Quality of water accumulated in the working pit may be checked during monsoon
- It shall be ensured that quality of drinking water for the worker is hygienic and good sanitation system is available

Noise Pollution Control Measures

Following management practices have been observed for the present operation.

- Row of trees need to be planted all around mine premises to reduce propagation of noise and dust due to blast outside the lease;
- No blasting shall be done when the sky is clouded as cloud cover can cause reflection of pressure wave back to the ground level at some distance from the blast
- The workforce working at the mining face, where high noise level is expected, shall be provided with protective device for occupational safety, however itôs wearing should be made compulsory to them.
- Inspection and maintenance scheduled need to be nicely formulated and strictly adhered to.
- Noise generating machinery, should strictly be in compliance with the recommendations of the manufacturers. This would ensure an installation free from vibration and exhaust leaks which are also major contributors to increased noise levels
- Provision of insulating caps and aids at the exit of noise source on the machinery
- Green belt development will also muffle the noise to a great extent.
- Maintenance of machines and vehicles will be carried out regularly. The scheduling of frequency is needed attraction.
- Use of physical barriers and green belt development around the mine to restrict the noise from going outside the mine boundary during operation

Solid Waste Management

- During past mining period, about 66512 cubic meter interlarded shale waste has been generated and same has been stacked as dump in inside the pit. During the first five year, accumulated mine waste (within pit) will be re-handled and same will be used for backfilling purpose. During the proposed five years working, only 12% mine waste will be generated, which is negligible and same will be used for maintenance of haul road. During the 5th year to mine life about 600cum of soil will be generated. The total OB/waste generated will be simultaneously backfilled in excavated area during conceptual period

Dump no	Type active /inactive	Quantity m3	Base area M2	Avg. height M	Area stabilized	Remark
D1	Inactive	2520	1260	1-3		Siliceous weathered

					These are old dumps Get stabilized by natural process	loamy material
D2	Inactive	5400	2700	1-3		Siliceous weathered loamy material
D3	Inactive	10875	7250	1.5		Siliceous weathered loamy material
D4	Inactive	11025	3675	1-5		Siliceous weathered loamy material
D5	Inactive	7875	2250	1-6		Siliceous weathered loamy material
D6	Inactive	10200	3400	1-5		Siliceous weathered loamy material
D7	Inactive	10838	7225	1-2		Siliceous weathered loamy material
D8	Inactive	5250	2100	1-4		Siliceous weathered loamy material
D9	Inactive	1125	750	1-2		Siliceous weathered loamy material
D10	Inactive	540	270	2		Siliceous weathered loamy material
D11	Inactive	324	14000	1		Siliceous weathered loamy material
D12	Inactive	540	270	2		Siliceous weathered loamy material
TOTAL		**66512**	-			

- The existing old dumps within five year working will be re-handled and the details are under

- **Re-handling of old waste dump**

Dump no	**Type/quality**	**Base Area X avg. ht**	**Quantity**	**Location**	**Remarks**
1	Weathered ferruginous clayey loamy formation	1260M^2 X 1-3M	2520m3		17679M3 will be used for backfilling the barrier zone excavation
2	Weathered ferruginous clayey loamy formation	2700M^2 X 1-3M	5400m3		
3	Weathered ferruginous clayey loamy formation	7250M^2 X 1.5M	2520m3		
8.	Weathered ferruginous clayey loamy formation	2100M^2 X 1-4M	5250M3	E	
9.	Weathered ferruginous clayey loamy formation	750M^2 X 1-2M	1125M3	SW	
11.	Weathered ferruginous clayey loamy formation	324M^2 X 1m	324M3	N	
12	Weathered ferruginous clayey loamy formation	270M^2 X 2m	540M3	SW	
TOTAL			17679M3		

Note: Dump D4 will be re-handled adjusted within 50m barrier zone

Re-handled waste dump

A	B	C	D	E	F

Year	Waste re-handled during the year M^3	Old soil dump handling during the year M^3	Total re-handled waste Handled M^3	Effective Volume = Sf x cf x d M^3	Quantity disposed of on
1st	8840 (used for east side backfilling)	-	8840	8840	Barrier zone excavation
1st	8839 (used for western side)	-	8839	8839	
TOTAL	17679		17679	17679	

- Reclamation and rehabilitation is proposed from 2nd year onward of proposed working. During the first five year period about 0.3412ha area will be backfilled using OB/mine waste. During the conceptual period about 6.56ha area will be excavated and about 2.7212ha area will be backfilled using soil and OB/mine waste

A	B			C		D		
Year	Size of backfill Portion at the begining of the year			Quantity dumped during the year	Cumulative quantity dumped	Size of backfill area Portion at the end of the year		
	Bottom area M^2	Top area M^2	Avg. height / thickness -M	M^3		Bottom area M^2	Top area M^2	Avg. height/ thickness-M
1st	-	-	-	17679	17679	0.3412	0.3412	4-6
2nd	0.3412	0.3412	4-6	-	17679	0.3412	0.3412	4-6
3rd	0.3412	0.3412	4-6	-	17679	0.3412	0.3412	4-6
4th	0.3412	0.3412	4-6	-	17679	0.3412	0.3412	4-6
5th	0.3412	0.3412	4-6	-	17679	0.3412	0.3412	4-6

Environemntal monitirng programme

S. No.	Environmental Attributes	Locations	Parameters	Period and Frequency
1	Ambient Air quality	• Mine Site • Barhia • Bhatia • Nandan	PM_{10}, SO_2, NOx, CO and as directed by MPPCB	24 hr. average samples every month during mining phase
2	Ground water	Existing hand- pump at lease area and well/handpump of Barhia	Drinking Water parameters as per IS 10500	Pre Monsoon and Post Monsoon
3	Surface water	Mine pit, Pond, Bakuli Nalla	pH, conductivity, Alkalinity, TS, TDS, TSS, Total hardness, Cl, SO_4, Ca, Mg, K, Na, Zn,	Pre Monsoon and Post Monsoon

S. No.	Environmental Attributes	Locations	Parameters	Period and Frequency
			Al, Fe, Total	
4	Ambient Noise	Mine site (near the working pit during excavation, Drilling, Blasting and around the lease periphery) total 04 point	dB (A) levels	Hourly day and night time Leq levels every quarter
5	Mines discharge into drains	Settling tank & garland drain of lease area	pH, conductivity, Alkalinity, TS, TDS, TSS, Total hardness, Cl, SO_4, Ca, Mg, K, Na, Al, Fe, Zn, Total Coliform	Pre and Post Monsoon
6	Soil Quality	In and around the site	Organic matter, C, H, N, alkalinity, Acidity, heavy metal	Annual

Budget for Environmental Protection

S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
1	Air pollution monitoring	2.0	Cost includes water spraying arrangement	2.20 (Rs 4500/- per sample)	Expected cost includes regular monitoring by approved third party
2	Water pollution monitoring	6.0	Include cost of septic tank, garland drain, Settling tanks (5 no.)	1.0 Rs 3500/- per sample for G/w, S/w, M/D etc)	Expected cost includes regular monitoring by approved third party
3	Noise pollution monitoring	Nil	-	0.25	Expected cost includes regular monitoring by approved third party
4	Solid and hazardous waste management	3.0	Capital cost include cost of RCC dyke for keeping of oil drums	0.25	Expected cost of cleaning and maintenance
5	Environmental Monitoring and management	1.5	-	2.0	Recurring cost would incur on hiring of consultants for environmental management

S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
6	Plantation at Site	3.0	Plantation in and around site	1.5	Maintenance of plantation
7	De-siltation of pit and ST	-	-	2.0 (0.50 per quarter)	Quarterly basis
	Total	**15.5**		**9.20**	

Existing and Proposed Afforestation plan

ENVIRONMENT IMPACT & MANAGEMENT: Ecology: Stage Wise Cumulative Plantation										
REQUIREMENTS OF PLANTS FOR AFFORESTATION/RECLAMATION										
Year	**Un-worked area green belt**		**Outside dumps (reclaim)**		**Bench of pit**		**Electric line/ village side**		**Total**	
	Area (Ha)	**Trees**	**Area (Ha)**	**Trees**	**Area (Ha)**	**Trees**	**Area (Ha)**	**Trees**	**Area (Ha)**	**Trees**
Present	Nil	Nil	-	-	-	-	-	-	Nil	Nil
1st to 5th	-	-	0.3	450	-	-	0.3	450	0.6	900
5th to mine life	-	-	2.4212	3600	0.55	750	-	-	2.9712	4350
Total	**-**	**-**	**2.7212**	**4050**	**0.55**	**750**	**0.3**	**450**	**3.5712**	**5250**

Budget Allocation for Plantation

A separate budget shall be made for plantation/ Green belt development Plan.

S. No.	Head	Qty	Rate (Rs.)	Amount (Rs.)
1st Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
2nd Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
3rd Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
4th Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-

	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
5th Year	Saplings	180	50/-	9,000/-
	Earth work	180	20/-	3,600/-
	Pesticides/insecticide		40/-	5,000/-
	Mali (worker)	1 No.	@ 5000/- per month	60,000/-
			Total	**77,600/-**
			Grand total	**3,88,000/-**

CSR Action Plan ensuring socioeconomic benefits

Need Identified For CSR Plan	**Activities**	**Duration**	**Frequency**	**Budgetary Provision (Rs.)**
Total quality education support to primary education	Education resource material and infra-structural support, mainstreaming education for drop outs or out-reach girls and their enrollment in primary school	12 months	Regular	50,000
Provision of healthcare facilities for elderly, mother and newborn child	Seasonal medical camps targeting health issues related to mother and newborn child related and health problems of elderly people. 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	Four camps a year	80,000
Personal health, hygiene and sanitation related community support	By keeping in mind, the unsafe sanitation related problems of women, the facilitation of community toilet infra-structure will be done including awareness generation campaign, wall writing, village level theme camps etc.	Quarterly	Scheduled	100,000
Maintenance of narrow roadways and incorporation of plant saplings	The time to time maintenance of narrow roadways connoting people from cities and incorporate various saplings roadside area used for the transportation sequentially.	-	Scheduled	70,000
Total				**300,000**
Fund for Proposed CSR programme as suggested by Gram Panchayat				**2,00,000**

After deliberations the case was recommended for grant of prior EC subject to the following special conditions:

- A minimum of 22 meter wide thick green belt shall be developed all around the premises.
- The entire plantation should be taken up in the first year itself along with the mining with plantation of local species of at least 03 years old saplings with casualty replacement.
- Pond deepening shall be taken up through de-sludging of the same.
- Hydro-geological studies shall be done every three years.
- Satellite imagery every three years.
- PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.

12. **Case No. - 1710/2013 M/s Abdul Razzak, 903, Badi Omti – Jabalpur, Distt . –Jabalpur (M.P.) 482001** *Nimas Marble Mines Lease Area – 2.67 ha. Capacity – 15000 Cumts. At Patwari Halka No. – 41/82, Khasra No. – 435 & 436, Village – Nimas,Tehsil –Bahoriband, Distt. - Katni (M.P.)* **For –EIA Presentation ToR (142) issued letter no. – 780 dt. 26/11/13 Env. Consultant: Apex Minetech Consultants, Udaipur** (Raj.)

PP requested for considering the case in the meeting scheduled for 11/01/15. Committee accepted the request subject to availability of time.

13. **Case No. - 1711/2013 Moh. Abbas, M/s Jabalpur Marbles, 903, – Badi Omti –Jabalpur, Distt . – Jabalpur (M.P.) – 482001** *Ghutehi Marble Mines Lease Area – 4.57 ha., Capacity – 25,000 m3 at Khasra No. – 215,217, 218, 219 & 220 Village – Ghutehi, Tehsil– Sihora, Distt. - Katni (M.P.)* **For-EIA Presentation. ToR (142) issued letter no. – 782 dt. 26/11/13 Env. Consultant: Apex Minetech Consultants, Udaipur** (Raj.)

This is mining project comprising mining of Marble form a lease area of 4.57 Ha. The project requires EC from SEIAA. The TOR for the project to carry out EIA / EMP was issued by SEAC vide letter dated 26/11/2013. EIA report was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The EIA report and the EMP were presented by the PP and his consultant before the committee. The submissions and the presentation reveals following:

Name of mine	Ghutehi Marble Mine
Project Proponent	M/s Jabalpur Marbles
New mine/ existing mine (old lease period in case of existing mine)	Existing mine Lease period: 21.10.2008 to 20.10.2028
Name of the mineral	Marble
Location of the mine	Khasra no. 215, 217 (1-4), 218 (1-5), 219 (1-4), & 220 (1-3) Village: Ghutehi Tehsil Sihara, Distric Jabalpur Latitude : 23°34ô52.0ò to 23°35ô04.4ò N Longitude : 80°06ô42.2ò to 80°06ô49.6ò E

Approach road	Located 52 km, North East of Jabalpur and 40 km. South West of katni at 47 km, from North East of Jabalpur on N.H. 7, from Bahoriband turning to lease area is about 5 km, approachable by all season road.
Lease area/ Production	Lease area 4.57 ha, Production 25000 cum/year
Pvt. Land or Govt. Land (if Govt . land its land use)	Private land sanctioned for QL of Marble
Land usage of mining lease area	Detailed on subsequent slide
Number of mines located within 500 m radius from the periphery of the mine/ and the total area of all the mines including the mine for which application is made	Within 500 m radius from the periphery of the mines, the number of mines are 4, total area of all the mines is 10.72 ha.
Is the mine located within 5 km of aerial distance of interstate boundary, wild life sanctuary, critically polluted area	No
Aerial distance of the mine from nearest village, hospital, school, place of worship etc. (as furnished in form 1)	2.0 km
Aerial distance from the nearest nalla, river, pond, canal or any other water body	Khorera Pond 1.40Km. (N.E.), Bhakttari Pond 2.23Km. (S.E.), Dinari khanariya Pond 3.13Km. (S.), Dinari khanariya Pond 3.13Km. (S.), Bocharya Pond 8.71Km. (W.), Darshani Pond 9.12 Km. (S.), Darshanitola 7.70 Km. (S.W.), Marsh Pond 9.40 Km. (S.W.)
Aerial distance from the forest area	Amoch R.F. 5.92 km (E.) R.F. 6.56 km (N.E.) Jujhawal R.F. 8.12 km (N.E.) Open Mixed Forest 0.67 km (N. To W.) Open Mixed Forest 1.02 km (N.E.) Open Mixed Forest 3.52 km (N.E.) Open Mixed Forest 6.47 km (W.) Open Mixed Forest 1.95 km (S.)
Aerial distance from the public road , railway track etc	(i) SH51 at 1.4 km. (ii) NH7 at 8 km. (iii) Railway line is at 9 km.

Salient features of the project

Dominant nature of land	Gently sloping flat land
Topography	Surface RL: 427m to 423 m
Litho logy	Soil ï 1.5 m Overburden ï 5.5 m Marble ï 22 m

Geological reserve	793910 cum in situ
Minable reserve	333222 cum in situ
Anticipated life of the mine	14 years
Year wise development and production plan (first five years)	Year Quantity 1st 21125 cum 2nd 24960 cum 3rd 26910 cum 4th 26910 cum 5th 22425 cum (Source Approved Mining Plan) Five year development plan shown in subsequent slide.

Top soil and OB management

Depth of top soil	1.5 m
Total quantity of the top soil	16275 cum
Already generated (existing mine)	13600 cum
Year wise generation of top soil (five year)	Top soil will not be required to be removed during next five years and no stacking is required. However, top soil is stored as shown in environment plan.
Details of place for stacking the top soil (year wise and to be shown on Environment Management plan)	Earlier removed top soil is stored separately as shown in environment plan.
Details of re-use of top soil	Top soil is being/will be used for green belt development.
Waste rock/ OB management	
Estimation of total quantity of over burden	190830 cum
Already generated (existing mine)	64830 cum
Year wise generation of over burden (five year)	(i) 11375 cum, (ii) 13440 cum, (iii) 14490 cum, (iv) 14490 cum, (v) 12075 cum
Waste rock/ OB management	
OB dump site and height of dump	(i) Overburden dumps no. D1 & D2 in North direction; height approx 2m (ii) Overburden dump no. D3 in east direction; height approx 2.5 m (iii) Overburden dump no. D4 in south direction; height approx 2 m
Details of Dump stabilization and management)	(i) Overburden/ waste rock Dump will be stacked separately on D4. (ii) During years, 4 and 5, generated O/B will be used for making haul road and for maintaining existing haul road.

	(iii) Around bottom periphery of D4 dump yard garland drain exists and the same will be regularly desilted. Retaining wall will be made around the bottom periphery of OB dump D4. At the end of conceptual period all dump/waste rock will be re-handled and backfilled in exhausted pit.
Backfilling (if proposed provide details if not give reason)	1.54 ha area will be backfilled for 15 m depth.

Land use & conceptual (in hectares)

Land use	**Present**	**At the end of five year**	**At the end of life of the mine**
Pit	1.36	1.93	3.5575
Storage of top soil	0.10	0.10	0.000
OB dump	2.245	1.876	0.000
Mineral storage	Nil	Nil	Nil
Infrastructure (Office, work shop etc)	0.010	0.010	0.010
Crusher / processing unit	Nil	Nil	Nil
Roads/	0.30	0.30	0.00
Green belt *	0.20	0.70	1.00
Back filled *	-	-	1.54
Water body *	Nil	Nil	Nil
Other (specify)* Rain Water Reservoir	0.30 **	0.35	2.0175
Used area	3.915	4.116	3.5675
Unused area	0.655	0.454	1.0025
Total	4.57	4.57	4.57

Air, Water, Noise, Ground Vibration

Sources and type of air pollution	i) Operations of HEMM, ii) Movement of dumpers, iii) Drilling operations, iv) Loading & unloading O.B.
Mitigation measures air pollution	i) Water sprinkling on haulage road, ii) Mine working will be under the open sky leading to quick dissipation in air, iii) Maintaining gentle gradient of haul roads and avoiding overloading of dumpers. (iv) Wet drilling, v) Minimize drop height, vi) Plantation along haulage road & along mine periphery
Sources of water pollution	i) Slurry generated by wire saw operations in the mine pit, ii) Intersection of ground water table in mine pits.
Mitigation measures water pollution	i) The water sumps will be regularly de silted and marble slurry will be disposed off on waste dumps and buried deep under the debris. ii) Garland drain already constructed around dump bottom

	periphery D 4, iii) Catch drain and siltation ponds around lease periphery. iv) Statutory permissions will be obtained before touching the ground water table.
Sources of noise pollution	i) Operation of air compressors, drills, shovels, cranes etc. and movement of dumpers.
Mitigation measures	i) Proper maintenance of all the mining machinery , ii) Avoid overloading & maintaining gentle gradient of roads. iii) Providing & enforcing use of personal protective equipments like ear plugs by workers. iv) Plantation along haul roads and mine periphery.
Sources of ground vibration	Blasting is not proposed and ground vibrations will not be generated.
Mitigation measures	Not required.

Afforestation

No. of existing trees within lease area	**150**
No. of trees likely to be up rooted	**Nil, only some grass/bushes may be removed**
No. of tress proposed to planted (year wise break up)	**100 trees per year.**

Year	**Green belt on statuary boundary**		**Afforestation (inside lease area)**		**Inside lease on Backfilled aera**		**Total**	
	Area (hect.)	**Trees**	**Area (hect.)**	**Trees**	**Area (hect.)**	**Trees**	**Area (hect.)**	**Trees**
Existing	0.20	150	-	-	-	-	0.200	150
1st year	0.10	100	-	-	-	-	0.10	100
2nd years	0.10	100	-	-	-	-	0.10	100
3rd years	0.10	100	-	-	-	-	0.10	100
4th years	0.10	100	-	-	-	-	0.10	100
5TH Year	0.10	100	-	-	-	-	0.10	100
After 5th Year up to Mine Life	0.30	300			0.51	510	0.81	810
Total	**1.00**	**1000**	**-**	**-**	**0.51**	**510**	**1.51**	**1460**

COST OF ENVIRONMENTAL PROTECTION MEASURES	
Pollution control and monitoring	Rs. 1.80 lac pollution control

	Rs. 0.50 lac per year for monitoring
Occupational health	Rs. 0.50 lac per year (@ Rs. 2400/- per person for 20 persons per year.
Green belt	0.70 lac capital cost & 1.20 lac recurring cost
Reclamation and rehabilitation of mined out area	i) For last five years Rs. 37,000 ii) At conceptual period (a) Fencing = 630 x 50 Rs/m (b) Re-handling @ Rs.40/- cum for 1,30,000 cu.mts. total waste. (c) Plantation on backfilled area @ Rs. 300/- plant for 1540 plant Total Rs. 68,00,000 to be spent during last 5 years of mine life for closing the mine.
Other (Specify)	Nil

After deliberations committee observed that the submissions and the presentation made by the Pp are satisfactory and acceptable hence decided to recommend the case subject to the following special conditions:

1. Open cast mining shall not be carried out below 394 meters i.e. ultimate depth of the mine.
2. Back-filling of the pit shall be taken up immediately after touching the depth of 394 meters.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Necessary consents shall be obtained from MPPCB and the air pollution control measures have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Entire plantation should be taken up in the first year itself along with the mining with plantation of local species of at least 03 years old saplings with casualty replacement.
8. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
9. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
10. The 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.

Discussion on other projects:

1. **Case No. – 1941/2014 Shri Pradeep Singh, Byohari, Dist-Shahdol (MP)** *River Sand Quarry in an area of **9.800 Acre.** at Khasra No. – 247, Village-Barachh, Tehsil-Jaisinghnagar, District-Shahdol (MP) Capacity - 57780 Cubic mt.. /Year.* (Revised application received from SEIAA vide letter no. 2764 dated 23/12/2014)

The case was discussed in the 159th meeting dated 01/12/2014. Due to incorrect entry in the application form (9.8 Ha instead of 9.8Acre) PP was asked to submit corrected copy of application with due endorsement from SEIAA. The same was receibved from SEIAA vide above referred letter. The scrutiny of case reveals that this is a case of mining of sand at Khasra No. ï 247, Village-Barachh, Tehsil-Jaisinghnagar, District-Shahdol (MP) with proposed production cCapacity of 57780 Cubic mt.. /Year.

This is a sand mining project comprising a lease area of 9.800 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

- The quarry is located at - *Village-Barachh,Tehsil-Jaisinghnagar, District-Shahdol (MP).*
- Concerned Mining Officer has reported that no quarries is operating / proposed within 1 Km from all the peripheries of the proposed sand quarry.
- It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry.
- No embankment / bridge is reported within 1 Km from any of the periphery of the proposed quarry.
- PP has submitted the Mine Plan duly approved by the competent authority. Pp has also submitted an EMP.
- The mining is proposed to be carried out manually.

Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall use the rejects and soil for plantation on theses eroded banks to prevent damages of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.

12. No in stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure thatthe annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. 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.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activitiesin the region through the óGram Panchayatô
18. EC will be valid for mine lease period subject to a ceiling of 5 years.

2. Case No. – 694/2012 **Shri Rakesh Kumar Tiwari, Director, M/s Vaibhavaa Infratech Pvt. Ltd.,91, Paras Majestic, Trilanga, Bhopal (M.P.) – 462-039** *Duara Metal Stone Quarry of M/s Vaibhavaa Infratech Pvt. Ltd., at khasra no. 176 part Village – Duara, Tehsil – Sihnawal,Distt. – Sidhi,(M.P.) Mine area – 13.04 ha. Capacity: 2,50,000 M3 / year.*

The case was discussed in the 145th meeting dated 7/11/2013 where by some complaints pertaining to pollution from the mine was reported in the public hearing. Clarification in this context was sought from local administration and the same was received vide letter no 912 dated 06/12/2014. The same reveals that the applicant has not yet been issued óBhoo-praveshô and the mine is not operating, hence there is no question of any pollution from the said mine. In view of above clarification and based on the submissions made by the PP the case is recommended for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Necessary consents shall be obtained from MPPCB and the air pollution control measures have to be installed as per the recommendation of MPPCB.
4. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
5. Entire plantation should be taken up in the first year itself along with the mining with plantation of local species of at least 03 years old saplings with casualty replacement.
6. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
7. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
8. 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.

3. Case No. 497/2010 Shri Ashish Modi, Director M/s Milan Realities 2006 Oasis Trade Centre, 20/22, Yeshwant Niwas Road Indore (M.P)- High-rise multistoried residential project at village- Bicholi Mardana, Indore (M.P) - (For aappraisal and discussion as per SEIAA decision in 169th meeting dated 28/10/2014- Received via SEIAA letter no. 2264/SEIAA/2014 dtd. 25-11-2014. **Building Construction project.- presented by the PP.**

The case was referred by SEIAA vide letter no. 2264/SEIAA/2014 dtd. 25-11-2014, for comments of on the existing construction in the project. A brief of the project and its background was presented by the project proponent before the committee. The submissions and the presentation made by the PP reveals following:

- Application for the environment clearance of the project was made to SEIAA on 07.12.2009.
- Based on the merits the project was recommended by SEAC in its 76th meeting dated 07.01.2011 and 84th meeting dated 09.11.2011 for grant of prior EC.
- The case could not be cleared by the SEIAA for want of commitment from Indore Municipal Corporation for water-supply to the project.
- It was submitted by the PP that due to market commitment they changed the plan and obtained permission from the Gram Panchayat Bichauli Mardana Tehsil & District Indore vide letter no. 28 dated 25/05/2011 for construction of 17695 m2 plot area of 2.666 Ha as phase -1.
- Also it was submitted by the PP that, Project has achieved precertification from Indian Green Building Council (IGBC) under the IGBC Green Homes Rating in May 2011.
- Further it was submitted by the PP that M.P. Pollution Control Board was approached for grant of consent under Air / Water Acts for the first phase of project. The MPPCB, considered the case after filing an affidavit before the Board with an undertaking that any construction beyond 20000 m2 shall be taken up only after obtaining EC from competent authority. Based on the merits and the Green Rating certification MPPCB granted permission for construction of 17695 m2 only on a plot area of 2.666 Ha with one of the conditions that any further construction can be taken up only after EC under the provisions of EIA notification.
- It was reported that the built up area of phase-1 approx.17200 sq mt. has been completed as per the permissions granted by the concerned Gram Panchayat and the M.P. Pollution Control Board. The remaining portion comprising about 20838.12 m2 of built-up area is yet to be taken up as phase -2. (Expansion Plan).

The salient features of the constructed part and proposed part is being presented herewith for kind consideration of honorable SEAC.

Total Plot Area	Total Land Area = 26,660
Total Built up Area	Total Built Up Area = 38,038.12 sq mt for Residential Project Already constructed area : 17200 sq mt (in 2.66 Ha)
Location of Project	Khasara no. 84/3/4K, 84/3/4 KH, 89/1, 89/2, 90, 91/2/2, 91/2/2 Village- Bicholi Mardana, Indore (MP)
Consent to Establish	MPPCB letter vide number 6647 dated 20.07.2011 for built up area of 17695 sq mt

Consent to Operate	MPPCB letter vide number 3592 dated 20.06.2014 for built up area of 17695 sq mt
Building permission from Bicholi Mardana village panchayat	Q/09 dated 16.01.2009
Permission from T & CP	T & CP letter bearing number 5458 dated 15.10.2008

After deliberations and scrutiny of the case, committee concluded that case was appraised by SEAC and no construction was revealed by the SEAC at that point of time thus, based on the merits and submissions the case was recommended for grant of EC without any comments on existing construction. However, now PP has completed a part of the proposed construction after obtaining due permissions from concerned authorities and green certification from IGBC, it may be considered as an expansion of the existing project.

[R.B. Lal, Chairman] **[Dr. M.P. Singh]** **[Dr. Mohini Saxena, Member]**

[K.P. Nyati Member] **[Dr. U.R. Singh]** **[Dr. Alok Mittal, Member]**

[A.A. Mishra, Secretary]

Meeting ended with thanks to the Chair and the Members.