The meeting conducted on 14th June 2012 was presided by Shri S.C. Jain, Chairman. Following members attended the meeting-

Shri K.P. Nyati, Member
Dr Mohini Saxena, Member
Shri A.P. Srivastava Member
Shri V. R. Khare, Member
Shri R.K. Jain, Member Secretary

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

1. **Meetings for June 2012 –** The dates for the **98th & 99th** meetings was decided as 23rd and 24th July 2012.
2. **Consideration of the Projects**
   1. 10 cases were invited to make presentation before the SEAC.
   2. Query reply and the discussions on miscellaneous issues were taken up after the deliberations.

Deliberations:

1. Case no. 705/2012 - Smt. Aruna Devi Bajaj, Hiraganj, P.O. - Katni (M.P.) Ligri Quartz Deposit Mine at Khasra No. 465, Vllage – Ligri, Tehsil – Bahoriband, Distt. – Katni (M.P.) Lease Area – 6.10 ha. Capacity – 0.05 MTPA **– For TOR**

(Grass Roots Research And Creation India (P)Ltd.

The project pertains to Item No. 1(a) category 'B' of the EIA Notification schedule, as the mining lease area of proposed mining project falls between 5 to 50 Ha. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

This Mine has been sanctioned by Govt of M.P. vide letter no 3-72/94/12 Bhopal Dated 31-08-1995 over 6.10 ha area. Lease deed executed on 28-10-1995 for 20 years period upto 27-10-2015.

Salient feature sof the project:

Location:

Village : Ligri, Tehsil : Bahoriband
District: Katni, State : Madhya Pradesh
Type of Lease Area / ownership Government Revenue land
Cost of the Project - 2.0 Crores
Mining Plan Approval - The Mining Plan has been approved by IBM. Mining scheme is under process of approval

Location	Village : Ligri, Tehsil : Bahoriband District : Katni, State : Madhya Pradesh
Type of Lease Area / ownership	Government Revenue land

(S.C. Jain) **(V. R. Khare)** **(K.P. Nyati)**
Chairman **Member SEAC** **Member SEAC**

(A.P.Srivastava) **(Dr Mohini Saxena)** **(R.K. Jain)**
Member SEAC **Member SEAC** **Member Secretary**

Screening Category	'B' Category
Cost of the Project	2.0 Crores
Mining Plan Approval	The Mining Plan has been approved by IBM. Mining scheme is under process of approval.

Geographical aspects:

Elevation : 419 m - 424 m AMSL
Ultimate depth of Mining : 6 m deep from existing surface level
Gground water table : 25m bgl (No Ground Water Intersection)
Latitude : 23039'10" N
Longitude : 80017'40" E

Environmental features:

Dense Mixed Jungle : 5 Km ESE
Lakhapateri RF : 6 km NNE
Jalaspur RF : 5 km North
Chiulapani R.F. : 7 km South
Kathi R.F : 7 km SE
Chapra Water reservoir: 9 km SW
Water reservoir : 5.5 km SSE
Baher nadi : 1 km North
Niwar Nadi : 8 Km NE

Salient features of the project:

Mining Methodology	Opencast other than fully mechanized
Total Mineable Reserve	0.55 million tones
Total Waste Generation	1750 MT/month
Max. Rate of Production	0.05 MTPA
Anticipated Life of Mine	11 years
Water Requirement 10 m3/day Source - From sump and Ground water from dug wells/bore wells	Dust suppression - 5.0 m3/day Green belt - 2.0 m3/day Domestic+ Drinking - 3.0 m3/day

Other details:

- Opencast other than fully mechanized method, drilling and blasting may be carried out with 32mm dia holes up to 1.5m depth.
- The development and production will be done side by side
- The OB and ore will be excavated and loaded mechanically on dumpers.
- Average height and width of the bench will be maintained at 3m
- Total waste generation during life of mine is about 2, 31,000 MT
- The total waste generated is in the form of OB and Soil
- OB/ Waste generated will be utilized for maintenance of all weather approach road and protective bund around the boundary of ML area and backfilling will be done after reaching the full depth of mineralization

(S.C. Jain) **(V. R. Khare)** **(K.P. Nyati)**
Chairman **Member SEAC** **Member SEAC**

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Member SEAC **Member SEAC** **Member Secretary**

Cost of the Project:

S. no.	Description	Cost in Rs.
1	Land cost expenditure	Nil
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	1,80,00,000.00
3	Environmental protection (check dams etc.)	10,00,000.00
4	Socio-economic development	10,00,000.00
TOTAL		**2,00,00,000.00**

After deliberations committee has suggested inclusion of following points in the TOR to be issued to the PP for carrying out EIA / EMP:

1. Approved mining plan to be submitted with EIA.
2. Source of water for the project with permission / commitment from the competent authority to be submitted.
3. Water consumption in the project has to be evaluated including all the usages.
4. Other TORs' as issued for such mining projects shall also be incorporated.

2. Case no. 706/2012 - M/s Krishna Marbles, HIG- 1, Housing Board Colony, P.O. – Katni (M.P.) – 483 501- Niwas Marble Mine M/s Krishna Marbles at village-Niwas,Teh.- Bahoriband,Distt.- Katni (M.P.) Area- 11.18 ha. Capa.- 90,000 MT Marble Block per annum- **For TOR**

Env. Consultant- Grass Roots Research And Creation India (P) Ltd.

The project pertains to Item No. 1(a) category 'B' of the EIA Notification schedule, as the mining lease area of proposed mining project falls between 5 to 50 Ha. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

The project has been submitted for prior EC as the lease is under renewal w.e.f 02/05/2012. No change in area or production capacity has been proposed. Environmental Clearance has been issued by the State Level Environment Impact Assessment Authority on 27.01.2010 vide letter no. 456/EPCO-SEIAA/09 for 90,000 TPA Capacity.

Status of Lease & Other Salient Features of the Project:

	Initial Grant of lease	Amended
Letter no. for which lease was issued by M.P. Govt.	4-06/2002/12/1	4-05/2006/12/2

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(K.P. Nyati) **Member SEAC**

(A.P.Srivastava) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

(R.K. Jain) **Member Secretary**

Date	03/05/2002	23/03/2006
Date of Execution of Lease	10/04/2002	10/04/2006
Area	8.0 ha	9.98 ha
Lease Time Period	10 Years	For remaining time
Lease expiry date	02/05/2012	02/05/2012
Mining Methodology	Open cast mechanized	
Total Mineable Reserve	14,29,050 Tonne	
Total Waste Generation	About 15400 MT/month	
Max. Rate of Production	90,000 MTPA	
Anticipated Life of Mine	16 Years	
Water Requirement Source- Sump & Ground water from dug wells/bore wells		10 KLD
Dust suppression - 6.0 KLD, Green belt - 2.0 KLD , Domestic + Drinking - 2.0 KLD		

Mining Details:

- Opencast mechanized method of mining is adopted, with the help of diamond wire cutting and cutting with chain saw
- Bench height is proposed to be 6 to 8m and width of benches will be maintained more than 10m
- The loading of marble blocks, kandas and waste will be done by diesel operated crane
- Transportation of block, kandas and waste will be made by dumpers or tractor trolleys
- The waste rock is proposed to be Southern side
- Machinery used is wire saw cutting machine with rock drill machine and compressor
- The mine waste is in the form of weathered Marble and cavity filled with morrum and clay
- Total waste generated will be utilized for maintenance of all weather approach road and protective bund around the boundary of ML area and backfilling will be done after reaching the full depth of mineralization

Budgetary aspects as proposed in the project:

S.No.	Description	Cost in Rs.
1	Land cost expenditure	Nil
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	2,90,00,000.00
3	Environmental protection (check dams etc)	5,00,000.00
4	Socio-economic development	5,00,000.00
TOTAL		**3,00,00,000.00**

After deliberations committee has suggested following points for inclusion into the

(S.C. Jain) **(V. R. Khare)** **(K.P. Nyati)**
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(A.P.Srivastava) **(Dr Mohini Saxena)** **(R.K. Jain)**
Member SEAC **Member SEAC** **Member Secretary**

TOR to carry out EIA / EMP:

1. Compliance report for the terms & conditions laid in EC has to be obtained from MoEF and submitted.
2. Compliance of the conditions laid in the consent / EC should be supported with photograph of the site clearly showing status of garland drains, OB management and other executions including plantation etc.
3. Notarized copies of NOC from forest department, mining lease deed, Mining Plan to be submitted.
4. Other terms and conditions shall be as per the TORs' issued for other mining cases.

3. Case no. 707/2012 - M/s Geetanjali Marbles, HIG- 1, Housing Board Colony, P.O. – Katni (M.P.) – 483 501 - Chapra Marble Mine M/s Geetanjali Marbles at Village- Chapra, Teh.- Bahoriband, Distt.- Katni (M.P.) Area- 9.98 ha. Capa. - 30,000 M^3 Marble Block per annum **For TOR**

Env. Consultant – Grass Roots Research & Creation India (P) Ltd. Noida (U.P.)

The project pertains to Item No. 1(a) category 'B' of the EIA Notification schedule, as the mining lease area of proposed mining project falls between 5 to 50 Ha. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

	Initial Grant of lease	**Amended**
Letter no. for which lease was issued by M.P. State Govt.	4-49/2002/12/2	4-3/2006/12/2
Date	25/10/2002	20/01/2006
Date of Execution of Lease	30/10/2002	08/02/2006
Area	9.86 ha	9.98 ha
Lease Time Period	10 Years	For remaining time
Lease expiry date	29/10/2012	29/10/2012

Location	Village : Chapra , Tehsil : Bahoriband District : Katni , State : Madhya Pradesh

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(Dr Mohini Saxena) **Member SEAC**

(R.K. Jain) **Member Secretary**

Type of Lease Area / ownership	Govt Waste Land
Cost of the Project	5 Crore
Mining Plan Approval	Approved by Director DGM on 2012

Geographical Settings:

Elevation	:	440 m R.L. north-east to 441 m R.L. west direction
Ultimate depth of Mining	:	60 m
Ground water table	:	25m bgl (Ground Water Intersection)
Latitude	:	$23^0$36'05" N
Longitude	:	$80^0$12'41" E
Jujhawal R.F.	:	4.5 km North-west
Amoch R.F.	:	2.5 km South –west and East
Open mixed Jungle	:	3.0 km South East & 3.5 km North East
Seasonal Nalla	:	4.5 km North West
Pond	:	1.0 km East, 4 km South East 2.5 km North East

Ore to be mined	**Marble**
Mining Methodology	Open cast mechanized
Total Mineable Reserve	17, 65,004 Tonne
Total Waste Generation	About 12000 MT/month
Max. Rate of Production	30000 cum or 0.084 MTPA
Anticipated Life of Mine	20 Years
Water Requirement - 10 m^3/day Source - sump and Ground water from dug wells/bore wells	Dust suppression - 6.0 m^3/day Green belt - 2.0 m^3/day (additional 1m^3 will come from domestic waste) Domestic + Drinking - 2.0 m^3/day (1 m^3 of domestic waste will be used for green belt)

Mining Details

- Opencast mechanized method of mining is adopted, with the help of diamond wire cutting and cutting with chain saw
- Bench height is proposed to be 6 to 8m and width of benches will be maintained more than 10m
- The loading of marble blocks, kandas and waste will be done by diesel operated crane
- Transportation of block, kandas and waste will be made by dumpers or tractor trolleys
- The waste rock is proposed to dumped in north and west side of the lease area.
- Machinery used is wire saw cutting machine with rock drill machine and compressor

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(A.P.Srivastava) **Member SEAC** | **(Dr Mohini Saxena)** **Member SEAC** | **(R.K. Jain)** **Member Secretary**

- Total waste generation during life of mine is about 28, 80,000 MT
- The mine waste is in the form of weathered Marble and cavity filled with morrum and clay.
- Total waste generated will be utilized for maintenance of all weather approach road and protective bund around the boundary of ML area and backfilling will be done after reaching the full depth of mineralization

S.NO	LAND USE	Fifth Year	Lease Period end /Mine Life
1	Total area excavated (broken)	3.75	**6.98**
2	Area fully mined out (out of 1)	Nil	**6.98**
3	Area fully reclaimed (Backfilled out of 2)	Nil	**1.98**
4	Area rehabilitated out of 3 by afforestation	Nil	**1.98**
5	Area rehabilitated by water harvesting	Nil	**5.0**
6	Total area under dumps	2.75	Nil
7	Area under active dumps	2.75	Nil
8	Area under mineral stack	0.25	Nil
9	Area under Road	0.10	Nil
10	Area under Plantation - (i.e. plantation on dump and boundary area)	1.0	**3.0**
11	Area under infrastructure	0.40	Nil
12	Undisturbed area	1.73	Nil
TOTAL		**9.98**	**9.98**

Proposed budget for environment and Socio-economic activities

Environmental protection (check dams etc) - 5, 00,000.00

Socio-economic development - 5, 00,000.00

TOTAL - 10, 000, 00.00

After deliberations committee has suggested following points for inclusion in the TOR to be issued to the PP to carry out EIA / EMP:

1. Compliance report for the terms & conditions laid in EC has to be obtained from MoEF and submitted.
2. Compliance of the conditions laid in the consent / EC should be supported with photograph of the site clearly showing status of garland drains, OB management and other executions including plantation etc.
3. Year-wise Production profile to be incorporated.
4. Notarized copies of NOC from forest department, mining lease deed, Mining Plan to be submitted.
5. Other terms and conditions shall be as per the TORs' issued for other mining cases.

4. Case no. 477/2009 - Shri Nimish Arora, Director M/s Aarone Developers Pvt Ltd 6th Floor, Office Tower , Select City Walk A-3, District Centre Saket, New

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Member SEAC	**Member SEAC**	**Member Secretary**

Delhi- 110 017 - (Building Construction Project) *" County Walk " Area Development Project at Village- Zalariya,Plot Area 80.811 ha. Distt- Indore.(M.P)* For TOR
Env. Consultant – Grass Roots Research & Creation Pvt. Ltd. Noida (U.P.)

Initially the case was recommended by the SEAC through 44th meeting dated 23/12/2009, after detailed appraisal of the project including the EIA report. The case was returned by SEIAA for reconsideration through its meeting dated 04/08/2011. The case was reconsidered in the SEAC meeting dated 09/11/2011 and was recommended for grant of prior EC. Again the project was returned by SEIAA through its meeting dated 19/01/2012, stating that, as the land area of the project is more than 50 Ha and the built up area is also more than 150000 m2 it comes under B-1 category and EIA is mandatory. TOR should have been issued by SEAC to carry out EIA as per notification dated 04/04/2011. After examining the matter SEAC found that the case was dealt & recommended in its 44th meeting dated 23/12/2009 and scoping was not mandatory then as MoEF Notification dated 04/04/2011 & 25/01/2012 did not exist. Appraisal of the EIA report and other submissions has already been done by the SEAC twice strictly as per the provisions of EIA notification. Hence Committee returned the case to SEIAA for necessary action.

Now the project has been returned by the SEIAA vide letter no. 230 dated 18/05/2012, along with the TOR proposed by the PP to carry out EIA. SEIAA has requested the SEAC to issue TOR to carry out EIA/EMP for the said project.

The visit of the sub-committee has been planned for third week just before the meeting of the July 2012 along with the visit of two similar housing projects (Case no. 229/2008 and 230/2008). Based on the findings of the visit, points suggested by the visiting members have to be incorporated in the EIA report and the same shall be than appraised by the SEAC before final recommendations.

5. Case no. 682/2012 Ku. Bharti Parwani, Vishnu Heights of M/s Jitesh Estate Pvt. Ltd., 141, Mezzanine Floor, City Trade Centre, Malviya Nagar, Bhopal (M.P.) – 462003- Vishnu Heights of M/s Jitesh Estate Pvt. Ltd. at .Part of Khasra no. of 24/1/3,14/3 and 14/5/1 Village – Bawdia kalan, Teh. – Huzur, Distt. – Bhopal(M.P.) Total Land Area – 2.634 ha.. , Total Built Up Area – 79595.35 sq mt. for Residential Building, Club House and School.
Building Construction Project
Environmental Consultant : M/s Creative Enviro Services, SR-4, Shriram Kunj, E-8, Bharat Nagar, Arera Colony, Bhopal (M.P)
The project pertains to Item No. 8(a) category 'B' of the EIA Notification schedule, as the total built-up area is more than 20,000 m^2. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for appraisal. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

Salient features of the project:

Total Plot Area	2.634 Ha
Total Built up Area	79595.35 sq mt for Residential Building, Club House and School

(S.C. Jain) **Chairman**	**(V. R. Khare)** **Member SEAC**	**(K.P. Nyati)** **Member SEAC**
(A.P.Srivastava) **Member SEAC**	**(Dr Mohini Saxena)** **Member SEAC**	**(R.K. Jain)** **Member Secretary**

Dwelling Units	Residential Flats: 572
Location of Project	Khasara no. of 24/1/3, 14/3 and 14/5/1 at Bawdia kalan/ Ahamadpur, Tehsil- Huzur, Bhopal (MP)
Occupancy	Own Private Land
Geological Location	23011'20.6" N, 77026'45.5" E
Height of Building	37.7 mt
ROW	60 mt
Width of internal roads	09 mt
Nearest Highway	NH - 12
Rail Way Line	80 mt
Nearest Airport	Raja Bhoj Airport (~ 15.5 km)
Seismic Zone	III
Annual avg. Temperature	Max. 450 & Min. 6.00
Annual avg. Rainfall	1150 mm
Topography	Plain
Land use pattern	Commercial & Residential
Total Water Requirement	393 KLD
Total Waste Water Generation	353 KLD
Flushing water requirement	132 KLD
Total Fresh Water Requirement	261 KLD
Power Requirement	3365 KW
Back up Power facility	1 DG sets of 250 KVA
Solid Waste	1603 KG per day
Stilt + open Parking Space	9190 Sq Mt
Maximum Height	Stilt parking + 37.7 M.
Total nos. of DU'S (excluding E.W.S. & L.I.G.)	572 DU'S
Minimum distance between two block	6.00 M

Water demand calculation

Water Demand Calculations For Residential	
1	Occupancy Load = 5 Person / flat
2	Daily Water Demand = 135 lit/cap/day
Water Demand Calculations For Commercial	

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1	Occupancy Load = 1Person / 10 sqm
2	Daily Water Demand = 45 lit/cap/day
Water Demand Calculations For Visitors	
1	Occupancy Load = 1 Person / 200 Sq.ft
2	Daily Water Demand = 15 lit/cap/day
Water Demand Calculations For Club House	
1	Occupancy Load = 1 Person / 200Sq.ft
2	Daily Water Demand = 45lit/cap/day
Water Demand Calculations For Landscape	
	@ 5 Litres per Sq.m.

Water Balance

S. No.	Description	Total Population	Water Requirement				Total Water	% flow to Sewer				
			Flushing		Domestic			Flushing		Domestic		Total waste water
			A		B		A+B					
			LPCD	KLD	LPCD	KLD	KLD	%	KLD	%	KLD	KLPD
1.	Flats	2860	45	129	90	257	386	100	129	85	218	347
2	Visitors	50	07	0.35	08	0.40	0.750	100	0.35	85	0.34	0.69
3	Chambers	100	20	2.0	25	2.5	4.5	100	2	85	2.125	4.125
4	School	100	07	0.7	08	0.80	1.5	100	0.7	85	0.68	1.38
	Total						392.75 = 393		132.05 = 132		221.14 = 221	353.195 = 353

Proposed Sewage Treatment Plant

The Sewage Treatment Plant based on FAB technology will be designed to treat sewage quantity of 370 cu.mt./day

- Primary Treatment

Here the raw sewage effluent from different septic tanks / anaerobic bio-digester will be collected in the bar screen and oil and grease trap followed by in equalization sump

Application	For removing large size floating and suspended particles from sewage	
Coarse and Fine Bar Screens		02 Nos.

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(R.K. Jain) **Member Secretary**

Dimensions of screen chamber channel	400 mm x 400 mm with water depth of 500 mm	
Type	Coarse & Fine bar screen	
Bar spacing	20 mm & 10 mm	
Features	The fine bar screen shall be a complete unit comprising of main frame with an integral part consisting of net having bar spacing of 20 and 10 mm. The bar screen shall be cleaned manually.	
MOC	MS Epoxy Coated	
Coarse Air Bubble Diffusers		16 Nos.
Application	For mixing of sewage and to supply air	
Location	Homogenisation Tank & Treated Water Tank	
Air discharge	1.5 cu.mt./hr per diffusers	
MOC	Diffuser: EPDM Rubber Supporting Structure: PVC	
Tubular Air Diffusers		20 Nos.
Application	To supply air in the form of coarse air bubble for aeration	
Location	Fluidized Aerobic Bio Reactor	
MOC	EPDM Membrane, PVC supporting structure and SS – 304 clip and nipple	
Air Discharge	6 cu.mt./hr per diffusers	

From equalization sump effluent will be pumped into the fluidized aerobic bio-reactor for aeration using bacteria. Aeration tank shall be fitted with diffusers for supplying air (oxygen) through twin lobe roots air blower and will have suspended media. From here, effluent will be taken into the secondary settling tank (Clarifier). The sludge settled in the clarifier will be stored in aerobic sludge holding tank. From here the sludge shall be disposed off through filter press in the form of cakes.

- Tertiary Treatment

Clear effluent will be taken into the filter feed pump sump from where it will be pumped into the pressure sand filter and activated carbon for tertiary treatment before using for plantation and/or flushing purpose.

Before using the treated effluent for toilet flushing, treated effluent will be allowed to pass through the Ozonator to ensure proper disinfection.

STP Equipments

Rain Water Harvesting System:

Rooftop Rainwater Harvesting
Total roof top area = 9504 m2
Average annual rainfall = 1154.0 mm (1.15 m)
Catchment factor for rooftop = 0.85 (as per C.G.W.A. norms)
Volume of water to be generated = 5367 x 1.15 x 0.85 = 9290 m3/annum

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Road and Paved Area Rainwater Harvesting
Total road and Paved runoff area = 8683.51 m2
Average annual rainfall = 1154.0 mm (1.15 m))
Catchment factor for road and Paved = 0.75 (as per C.G.W.A. norms)
Volume of water to be generated = 8683.51 x 1.15 x 0.75 = 7489.5 m3/annum

Open Land and Green Belt area Rainwater Harvesting
The proposed Project premise has open green belt area. After accounting for natural seepage rate of 0.1 cm/min, 15 % Catchment factor may be considered for rainfall runoff. Volume of water to be captured from open ground and green belt area and open land area for the recharge to the ground water would be:
Open land and green belt runoff area= 7744.74 m2
Average annual rainfall = 1154 mm (1.15 m)
Catchment factor for open area = 0.15 (as per C.G.W.A. norms)
Volume of water to be generated = 7744.74x 1.15 x 0.15 = 1336 m3/annum

Fire Fighting Measures
The design and planning of Fire Protection System shall be done keeping in view the following criteria:

- National Building Code Sept 2005: Part IV for Fire Protection
- Local Bye-Laws.
- Relevant BIS codes: Specifically IS: 3044, IS: 5290 and IS: 5312, IS: 908 and IS: 2190, IS: 3844, IS: 15105.
- NFPA & TAC Manual (for reference and guideline).

System Design
Fire water storage
Static fire water storage tank for Fire Protection System shall be provided at each building terrace level of 25 cu-m capacity.
Fire pumping system
The fire pumping system shall comprise of independent booster pump located at each building terrace level of below capacity.
a. Terrace booster pump on each building:- Capacity - 900 LPM 35 Mt head

Fire Hydrant System
Internal fire hydrant system shall be provided with landing valve, hose reel, first aid hose reels, complete with instantaneous pattern short gunmetal pipe in the project. The internal diameter of inlet connection shall be at least 100 mm. The outlet shall be of instant spring lock type gunmetal ferrule coupling of 63 mm dia for connecting to hose pipe.
CO2 Extinguishing System
Trolley mounted carbon-di-oxide extinguishing system shall be provided in accordance with local Bye-Laws for transformer room, LT panel room and other critical areas.
Hand Held Fire Extinguishers
Portable fire extinguishers of water (gas pressure), Carbon-di-oxide and foam type shall be provided as first aid fire extinguishing appliances. These extinguishers shall be suitably distributed in the entire public as well as service areas.

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Member SEAC	**Member SEAC**	**Member Secretary**

The appliances shall be so distributed over the entire floor area, that a person is not required to travel more than 15 m to reach the nearest extinguisher.

Further, for rooms containing electrical transformers, switchgears, motors and of electrical apparatus, minimum 2 Nos. dry powder or carbon di oxide type/sand buckets extinguishers shall be additionally provided within 15 m of the apparatus.

Air Pollution Control Management

Construction Phase

- Transportation of raw material during non peak hours
- Idling of delivery trucks should not be permitted on roads
- Use of ready mix concrete carried in enclosed container
- Equipment shall be located away from sensitive receptor location
- Frequent water sprinkling to prevent fugitive dust emission
- Use of sharp teeth excavation machinery
- Covered fencing around the site will be provided.

Operational Phase

- DG set will have appropriate stack height as prescribed by the Central Pollution Control Board
- Proper ventilation will be provided to all parts of the building
- Open burning of any waste shall not be allowed.
- Green belt area shall be 7744.74 sq mt.
- Water spraying on internal road

Solid Waste Generation:

Sr No	Description	Occupancy	Kg per Capita per day	Total in Kg per day
(i)	Residents	2860	@0.55	1573
(ii)	Staff	-	@0.25	-
(iii)	Visitors + School	200	@ 0.15	30
	Total Solid Waste Generation	-	-	1603

Solid Waste Management Plan

It is estimated that at about 1603 kg per day of waste will be generated from the facility during the operation

Construction debris

- Use of fly ash bricks and fly ash at concrete mix also
- Construction debris is bulky and heavy and re utilization and recycling is an important strategy for management of such waste. As concrete and masonry constitute the majority of waste generated, recycling of this waste by conversion to aggregate can offer benefits of reduced landfill space and reduced extraction of raw material for new construction activity.

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- Recycled aggregate will be used for filler application, and as a sub base for road construction. Mixed debris with high gypsum, plaster, shall not be used as fill, as they are highly susceptible to contamination, and will be given to recyclers.
- Contractors will be allowed to remove metal scrap from structural steel, piping, concrete reinforcement and sheet metal work from the site. A significant portion of wood scrap can be reused on site. Recyclable wastes such as plastics, glass fiber insulation, roofing etc shall be sold to recyclers.

Operation Phase

Collection and transportation

- The biodegradable and non- recyclable/ non biodegradable waste will be stored and collected separately.
- Coloured collection bins shall be provided in proper numbers (Two on each floor and two at outside of each building)
- To minimize littering and odours, waste will be stored in well designed containers/bins that will be located at strategic locations to minimize disturbance in traffic flow.
- The collection vehicles will be well maintained to minimize noise and emissions, and while transporting waste, these will be covered to avoid littering.

Disposal

- With regard to the disposal/treatment of waste, the facility will disposed off the waste at trenching ground of Bhopal Municipal Corporation by our transportation facility.

Energy Conservation

- Energy efficient CFL/T5 lamps for common areas.
- Multiple circuit for lighting to switch off unwanted lights
- Use of low loss capacitors
- Group control for elevators
- Proper selection & sizing of cables consideration derating factors so as to minimize losses
- High efficiency motors conforming to IS 2615-2004
- Use of LED lightings which consume less energy
- Use of day light which reduce 50-60% of lighting cost
- Use of insulated glass can save 10-13% of cooling and heating cost

Plumbing

- Variable speed pumping system will be adopted for water distribution
- Recycle programme (dual Plumbing system) has been considered for water
- sq. mt. common green area will be provided

Plantation/ Landscape Plan

- Pedestrian movement area will also be provided with paver blocks having greenery within the blocks
- Trees along the access road to our township
- Tree plantation shall be done and greenery shall be maintained within the premises and around the premises

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Documents submitted:

Permission from Town & Country Planning, Permission from High Rise Committee Copy of Rin Pustika, P-II Form and Permission from Municipal Corporation For Water Supply

Statement of Area and other salient features of the project:

- Total Area 2.634 ha. (26340 Sq mt.)
- Area under 60 M road widening 306.20 Sq mt
- Area under 24 M road widening 2164.87 Sq mt
- Area reserved for amenities School - 400 Sq mt
- Net plot area 2368.93 Sq mt.
- Services area 265.25 Sq mt.
- Open Area 2489.06 Sq mt (10.6%)
- Maximum permissible ground coverage 30% of net plot area
- Maximum permissible F.A.R. 1:2.5

After deliberation committee asked the proponent to submit following information along with the supporting documents:

1. The site is surrounded by several open lands with some govt. land hence exact land parcel owned by the proponent is not clear. in view of the same committee decided to visit the site during July 2012 to validate the exact location where the project is proposed.
2. Provision of play ground other than the proposed park has to be made in the plan; accordingly plan has to be submitted.
3. Provisions for physically challenged persons have to be made so that they can reach their flats / parking comfortably.
4. Used oil from DG sets has to be collected and disposed off as per the provisions of hazardous waste rules.
5. Copies of permission / undertaking from competent authority to be submitted regarding supply of drinking water for the project.
6. Quantity of water and its source during construction phase to be submitted along with the supporting documents.
7. Provision of driving passage has to be made for the residents of adjoining colonies during construction phase accordingly plan to be submitted.
8. The solid waste generated during construction phase to be quantified and plan regarding its management such that the residents of adjoining colonies are not disturbed has to be submitted.
9. Lay out map of the region showing locations & status of all the neighboring plots to be submitted.
10. Parking space for four / two wheelers has to be re-estimated such that all residents and visitors have sufficient parking space.
11. Location of STP in the lay out has to be planned away from the borings and boundary walls.
12. Maximum height of the buildings along with the ROW of approach road and NOC from fire deptt. indicating the distance from the nearest fire-fighting station.

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13. It was brought to the notice of the committee that a township project adjacent to the proposed project is operating under the name 'Vishnu Hi-tech City' in this context PP has to submit response on following :
   - Whether the two projects i.e. 'Vishnu Heights' and 'Vishnu Hi-tech City' are owned by the same proponents (Partners).
   - Linkage between the two projects.
   - Distance between the two projects.
   - Status of EC and Consents issued to the existing 'Vishnu Hi-tech City' to be furnished.
   - Status of STP and Municipal Solid Waste Management in the 'Vishnu Hi-tech City'.

6. Case no. 474/2009 M/s Sukhdeo Prasad Goenka, Station Road, Katni Distt. - Katni (M.P.) *Harraina Limestone Mine (7.065 Ha) Cap.- 4000 TPA at Village- Harraina, Tehsil - Vijayraghogarh, Distt- Katni (M.P.)* **For – EIA Presentation**
1. ToR issued vide letter no 1095 dt. 05/12/09, 2. Revised ToR issued vide letter no 538 dt. 20/07/10
Env. Consultant – Creative Enviro Services, Bhopal (M.P.)

Neither the 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. As this was the first chance, committee decided to call the PP in the next meeting as per turn.

7. Case no. 683/2012 " SUMER SAFFARON HOMES" of M/s Sumer Builders Pvt. Ltd., 41, Gorani Compound, Near RTO, Opp. Lokmanya Nagar, Kesar Bagh Road - Indore, Distt. Indore (M.P.) - *" SUMER SAFFARON HOMES" of M/s Sumer Builders Pvt. Ltd. , Khasra No. 1487/1 & 1487/2, Patwari Halka no. 15/2 Village/ Town - Indore , Teh. – Indore, Distt. – Indore (M.P.) Total Land Area –41,600 Sq.m.Total Built Up Area – 83200.0 sq mt* **- Building Construction Project**
Env. Consultant – In Situ Enviro Care, Bhopal (M.P.)

The project pertains to Item No. 8(a) category 'B' of the EIA Notification schedule, as the total built-up area is more than 20,000 m^2. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for appraisal. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

Railway: Indore Railway Station is about 5 km away from the site.
Road: Nearest Highway is NH-3 at a Arial distance of 2 Km away from the site
Airport: Devi Ahillyabai Holkar Airport is approx.11km away from the site.

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DESCRIPTIONS	AREA (Sq.m)
Total Land Area	41,600 Sq.m
Ground Coverage	12,480 Sq.m (30%)
Built Up Area	83,200.0 Sq.m
Permissible Open Area + Circulation	29120 Sq.m (70%)
Permissible Green Area (as per T&CP)	4,160 Sq.m (10%)
Proposed Green Area (along with road & circulation)	6,240 Sq.m (15%)
Total Proposed Green Area	10,400 Sq.m (25%)
Total Built Up area of Residential Apartment Blocks	66,076.28 Sq.m
Total Proposed Built up area for Commercial Use	17123.72 Sq.m

Salient features of the project:

Name of the Proponent : Mr. Narendra Gorani, Partner (Land Owner)
Total Area Of The Plot : 41,600 Sq.m
Proposed Built –Up Area : 83,200.0 Sq.m
Land Use : Residential & Commercial (High Rise Development)
Total No. Of Units : 562
Total Number of Blocks : 11(A type -3, B type-3, C type -3, D type -2)
Total Water Demand : 751 KLD (554 KLD for Residential and 197 KLD for Mall.)
STP Capacity : 390 KLD for Residential and 80 KLD for Mall.
Solid Waste Generation : 1.86 TPD
Power Demand : 3.11 MW (3111KW)
Back Up Source: 915 KVA (5 No of D.G. Sets of 3x180, 1x125, 1x250 KVA each)

Statutory approvals obtained

1. T&cp approval- indore no.6125/ngrani/326/08 dated -03/11/2008
2. Development permission from Indore Municipal Corporation no.24022 dated -12/10/2009
3. Shelter fees for EWS no.17/2/60 dated -13/10/2009
4. Building permission high rise from Indore municipal corporation no. 2332/09 dated - 26/03/2009
5. Fire fighting noc- fire office, Indore no. 56-g/10 dated - 29.06.2010.
6. Received copy of application for msw disposal from Indore municipal corporation.
7. Received copy of application for water supply from Indore Municipal Corporation.
8. Received copy of application for ground water abstraction from Indore collector.

Water Balance

S. No.	ITEM DESCRIPTION	RESIDENTIAL	COMMERCIAL

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1.	Domestic Water Requirement	381 KLD	138.3 KLD
2.	Flushing Water Requirement	155.3 KLD	46.8 KLD
3.	Landscaping & other uses	17.5 KLD	11.6 KLD
4.	Total Water Demand	553.8 KLD or Says 554 KLD	196.7 KLD or Says 197 KLD
5.	Available Treated Water through STP	305 KLD	62 KLD
6.	Net Fresh Water	381 KLD	139 KLD

After deliberations committee has asked the proponent to submit following information along with the supporting documents at the earliest:

1. NOC from fire fighting department.
2. The parking area calculation have to be compared with the prescriptions of MoEF and to be submitted accordingly the lay out has to be revised / approved.
3. Provision of play ground other than the proposed park has to be made in the plan; accordingly plan has to be submitted.
4. Regarding disposal of STP sludge it was suggested by the committee that the same may be filter-pressed and the dried sludge can be disposed off with MSW; accordingly a plan has to be submitted.
5. Provisions for physically challenged persons have to be made so that they can reach their flats / parking comfortably.
6. Used oil from DG sets has to be collected and disposed off as per the provisions of hazardous waste rules.
7. Copies of permission / undertaking from competent authority to be submitted regarding supply of drinking water for the project.
8. Quantity of water and its source during construction phase to be submitted along with the supporting documents.
9. Details of corpus fund for operation and maintenance of STP, MSW and other environment related works to be furnished.

8. Case no. 708/2012 - Sh. Anod Jaiswal, Jaiswal Bhawan, Kolgawn, J.R. Birla Road, P.O. & Distt. - Satna (M.P.) – 485 501 - Ramasthan Limestone Mine at Village - Ramasthan, Teh.- Raghuraj Nagar, Distt.- Satna (M.P.) Area- 8.064 ha. Capa.- Proposed capacity : 0.125 MTPA (0.10 MTPA limestone & 0.025 MTPA reject stone) **For ToR**

Env. Consultant - Grass Roots Research and Creation India (P) Ltd.

The project pertains to Item No. 1(a) category 'B' of the EIA Notification schedule, as the mining lease area of proposed mining project falls between 5 to 50 Ha. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to

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carry out EIA /EMP. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

Following back-ground about the project was reported by the proponent that

- Originally the lease was granted in favour of Smt. Uma Bhai Pathak by M.P. govt vide letter no. F3-95/92/12/2 Bhopal, dated 15-12-1994 for 10 years w.e.f. 1992 to 2002
- ML was transferred to Shri Anod vide State govt. order No. F3-88/99/12/2 Bhopal Dated-07.06.2000 for the balance period up to 31.10.2002. The transfer deed was executed on 17.6.2000 and extended the period of ML upto 31.10.2012 The supplementary agreement was execute to this effect on 06.05.2003
- It is an existing mine, new for Environmental Clearance and renewal of Mine Lease and proposed production is 0.125 Million Tonnes per annum.

Salient features of the project:

Location	Ramasthan village, Tehsil Raghuraj Nagar, District Satna, Madhya Pradesh State.
Total Area	8.064 ha
Type of Lease Area / Ownership	Revenue Land
Cost of the Project	1 Crore
Mining Plan Approval	Letter No. – MP/Satna/Limestone/M.plan/R-09/ 2002-03 dated 28.03.2003. and MP/Satna/Limestone/M. Scheme -2/2007-08 dated 29.06.2007

Geographical aspects:

Elevation : 310 m AMSL north- 313 m AMSL south
Ultimate depth of Mining : 18 m deep from existing surface level
Ground water table : 25m bgl (No Ground Water Intersection)
Latitude : $24^0$37’23.9” to $24^0$37’33.5” N
Longitude : $80^0$57’41.2” to $80^0$57’52.2” E

Environmental features:

Simrawal Nadi : 4.75 km North East
Tons river : 4.20 km due South
Badkhar nalla : 7 km South West
Seasonal Nalla : 8.5 km North West
Magardaha Nalla : 4.75 km South
Jamori RF : 1.5 km South
Sathari RF : 7 km South East
RF : 1.2 km South West; 2.5 km South West; 3km South East

Ore to be mined	Limestone

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Mining Methodology	Opencast other than fully mechanized
Total Mineable Reserve	Limestone-1.5 million tones Reject Stone-0.25 million tone
Total Waste Generation	1100 MT/month
Max. Rate of Production	0.125 MTPA (0.1 MTPA Limestone + 0.025 MTPA Reject Stone)
Anticipated Life of Mine	20 years
Water Requirement	15 m^3/day Source - From sump & Ground water from dug wells / tube wells
Green belt - 3.0 m^3/day Domestic + Drinking - 3.0 m^3/day Dust suppression - 9.0 m^3/day	

Budget

S. N	Description	Cost in Rs.
1	Land cost expenditure	Nil
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	90.000.00.00
3	Environmental protection (check dams etc)	5,00,000.00
4	Socio-economic development	5,00,000.00
TOTAL		**1,00,00,000.00**

Mining Details

- Opencast other than fully mechanized method, drilling and blasting may be carried out with 32mm dia holes up to 1.5m depth.
- The development and production will be done side by side
- The OB and ore will be excavated and loaded manually/ mechanically on dumpers.
- In OB/ Reject Stone , the development will be carried out in 1st bench of 3 to 4m height on average. The width of the bench will vary from 6m to 10m
- Total waste generation during life of mine is about 2, 31,000 MT
- The total waste generated is in the form of OB and Soil
- The OB/waste generated will be utilized for backfilling besides utilization for preparation of the protective bund on which plantation will be raised

After deliberations committee has suggested following points for inclusion of in the TOR to carry out EIA /EMP:

- Notarized copies of NOC from forest department, mining lease deed, Mining Plan to be submitted.
- Approved mining plan to be submitted with EIA.

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- Source of water for the project with permission / commitment from the competent authority to be submitted.
- Water consumption in the project has to be evaluated including all the usages.
- Other TORs' as issued for such mining projects shall also be incorporated.

9. Case no. 636/2011 Sh. Pradeep K. Mittal,Partner M/s Pacific Exports, 11-12, Dunn Market Jabalpur Road, Bargawan, Distt. - Katni (M.P.) – 483501- *Jhilti Iron ore, laterite Mine at Village - Jhilti, Tehsil- Sihora Distt- Jabalpur (M.P) Area- 27.05 Ha Cap- 2.7 Million Tonne per annum Tonnes/Year* **For – EIA Presentation**

1. TOR issued vide letter no. 236 dt. 09/04/09, 2. Revised ToR issued vide letter no 348 dt. 20/05/10, **3. E C issued letter no.195 dt. 16/06/11 , 4.** TOR issued for expanded capa.- vide letter no. 68 dot. 29/02/12

Env. Consultant – M/s Apex Mintech Consultants,Udaypur (Rajasthan)

The project pertains to Item No. 1(a) category 'B' of the EIA Notification schedule, as the mining lease area of proposed mining project falls between 5 to 50 Ha. Hence it has to be appraised at SEIAA/SEAC of the state for grant of prior EC. The EIA/EMp report and relevant documents were forwarded by the SEIAA to SEAC for appraisal. The case was presented before the committee by the PP and his consultant, which reveals following features of the project:
Mining Lease for mineral laterite & Iron Ore was granted for a period of 30 years w.e.f. 18.8.2010 to 17.8.2040 to M/s. Pacific Exports over an Area of 27.05 Hect. near village Jhiti, Tehsil Sihora, District Jabalpur In Khasra No. 412 & 426. Production capacity was enhanced without obtaining permissions. Board has filed a court case against the PP for violation of Air & Water Acts. MPPCB issued closer notice. This was later revoked after decision of appellate authority (Housing and Environment Department of M.P).

Back ground of the project:

- Pacific Export a partnership concern obtained a mining lease near village Jhiti, Tehsil Sihora, District Jabalpur over an area of 27.05 Hect. In Khasra No. 412 & 426 for a period of 30 years w.e.f. 18.08.2010 to 17.08.2040.
- The Khasra No. 412 over an area of 20.65 ha. falls in Forest land, where as Khasra No. 426, over an area of 6.40 ha. is a Govt. waste land. Khasra No. 412 i.e., Forest land has been diversified by Ministry of Environment & Forest vide order No. 6-MPC 020/2009 BHO/1337 dt. 13.7.2010.
- Environmental Clearance from SLEIAA, M.P. for producing 80640 TPA of Iron Ore & Laterite given vide letter No. 195/EPCO-SEIAA/11 dated 16th June, 2011.
- Modification to approved plan of mining for a production capacity of 2.7 MTPA got approved by I.B.M., Nagpur vide letter No. 314 (3)/2010 MCCM (C) MP -40 dt. 29.4.2011.
- Proposal is for expansion of Iron Ore & Laterite production from 80640 TPA to 2.70 Million TPA.

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- T.O.R. for expansion was obtained vide letter no. 68/ PS-MS/MPPCB/SEAC/TOR (87) 2012 dated 29.02.2012.
- Public hearing held on 15.05.2012 at Jhiti mine.

Location:

Village	Jhiti
Tehsil	Sihora
District	Jabalpur
State	M.P.
Latitude	23°22'07.7" to 23°22'21.6" N
Longitude	80°09'50.2" to 80°10'31.3'E
Khasra No.	412 & 426
Topography	Undulating hillock
Altitude	405 – 440 MAMSL
Distance from nearest town	Sihora, 20 kms.
Nearest Highway	NH-7 at 15 Kms.
Nearest Railway Station	Gosalpur at 15 kms.
Nearest major water bodies	1. Barne Nadi-3.6 km.

Project Details:

Area	27.05 ha.
Forest area (Diversified)	20.65 ha.
Govt. revenue land	6.40 ha.
Mineable Reserve	1,69,15,064 M.T. (Proved mineral reserve)
Expansion capacity	80,640 TPA to 2.7 MTPA
Mining method	Opencast mechanized method.
Dimension of benches	6 m. (h) x 6-7 m. (w)
Stripping ratio	1:0.07
Life of mine	6 years (based on reserve established and targeted production).
Five year working depth	390 – 395 m amsl.
Category of Sihora block as per GEC	'SAFE'
Project cost	Rs. 11.81 Crore

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Proposed Year-wise Production:

Year	Proposed Production in Million Ton	Overburden in M3
2012-13	2.7	-
2013-14	2.7	36800
2014-15	2.7	-
2015-16	2.7	-
2016-17	2.7	-
Total	**13.5**	**36800**

Proposed year-wise plantation plan:

S. No.	Land use category	Present	5th Year	Up To End of life
1.	Waste Dump	-	0.6600	1.6800
2.	Excavation (Voids Only)	1.8160	17.0000	21.9000
3.	Road	0.1400	0.2000	0.1400
4.	Built Up Area	0.0565	0.0565	0.0565
5.	Township Area	-	-	-
6.	Afforestation	-	-	-
	(i) Green Belt Boundary	1.00	2.0000	2.0000
7.	(ii) Reclamation (Backfilled) &	-	2.4200	2.4200
8.	(iii) Plantation on waste dump	-	-	1.6800
9.	Mineral Storage	0.0288	0.0288	-
10.	Water Reservoir	-	-	7.7500
11.	For Other Use	-	0.0050	0.0050
12.	Total used area	2.0413	17.9503	23.7815
13.	Undisturbed Area	25.0087	9.0997	3.2685
	Total	**27.0500**	**27.0500**	**27.0500**

EMP as proposed by the proponent:

Air Pollution Control Measures-

- Laying and maintenance of haul roads, providing fixed water sprinklers to minimize air-borne dust.
- Development of extensive green barrier around mine, around dump area along side roads, periphery of mine, etc. to arrest propagation of dust and noise as well as to control erosion.

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- Moderate loading of dumpers carrying Iron Ore, Laterite & waste to avoid spillage & dust nuisance.
- Frequent water spraying/sprinkling on the roads, waste dump areas, etc, to suppress dust.
- Improved preventive maintenance practices for reducing particulate matter, gaseous and noise emission from HEMM/mining machinery like shovels, dumpers, compressors, transport vehicles, etc.
- Using sharp teeth for shovel digger, other soil excavation equipments, etc. to reduce dust propagation.
- Using Tarpaulin over loaded transport vehicles.

Noise level Control Measures as proposed in the project are-

- Planting of native species along roads & Safety zone to act as acoustic barriers. So far 1930 number of saplings are already planted.
- Sound proof operator's cabin for equipments like dumpers, shovel, etc.
- Proper and regular maintenance of equipments may lead to less noise generation.
- Providing in-built mechanism for reducing sound emissions.
- Providing earmuffs to workers exposed to higher noise level.
- By suitable necessary administrative controls, it will be ensured that noise monitoring will be regularly done, so that necessary remedial measures are taken promptly to prevent exposure of personnel to excessive noise levels.
- Conducting regular health check-up of workers including 'Audiometry Test' for the workers engaged in noise prone area.

Hydrogeological Scenario - Baseline -

- In 5 year plan period mining will not intersect water table.
- Pre-monsoon water levels is reported to be
- Core Zone – 390 – 387 m. amsl (15-18 m. bgl)
- Buffer Zone – 395-385 amsl (10-20 m. bgl)
- Mining is confined 395 m. amsl (10-15 m. bgl)
- Total annual replenishable recharge in core area works out to
- By ground water fluctuation method 0.0270 Million m3/yr.
- By rainfall infiltration factor 0.0227 Million m3/yr.
- Net Annual Draft has been observed to be 0.0036 Million m3/yr.
- Net Annual Ground Water Availability is 0.0234 Million m3/yr.
- Stage of ground water development is 13.33%
- Village Jhiti comes in Sihora block which is categorized as "SAFE" by G.E.C.

Water Pollution Control Measures as proposed in the Project:

- Maintaining a proper gradient of 1° to 2° for drainage of water on the bench floors with drains.
- Construction of suitable garland drains around quarry area and external dumps with proper gradients to prevent silt entry into nearby water bodies by providing desilting checks/pits.

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- Dump tops will be provided with proper sloping tapers.
- Construction of retaining wall around dump to prevent sliding and wash off effects.
- Sapling will also be planted along the foot & unused slopes to arrest and prevent erosion.

Waste Management:

- There is no old waste dumps in the lease area.
- As there is a market for this waste material, total quantity accumulated in the past were sold.
- Waste (intercalated only) accounts 5% of the total excavation.
- Entire ROM will be disposed except for non saleable waste, will be dumped over an area of 1.68 hect.
- At ultimate stage, approx 59,136 cu.mts. waste material will be generated.
- Waste dumps will be provided with necessary retaining wall, garland drains & desilting pits.
- In the ultimate stage this dump will be rehandled and reclaimed.

Mitigative Measures proposed for maintaining the Biological Environment:

- Undertaking given by the proponent that they would contribute proportionate amount towards implementation measured mention below.
- Green belt/plantation of suitable/native species at various possible places.
- Due to various control measures noise and air pollution will be minimized and hence minimum impact on flora/fauna status of the area.
- Conducting awareness programme through A/V presentation, lectures, circulation of pamphlets, etc.
- Training of mine workers/staff for wild life conservation.
- Providing water holes for animals in forest area.
- Provision of fencing around plantation.
- Proper maintenance of HEMM to reduce noise levels.

Socio-economic environment- Impacts & Mitigation measures

- As there are no habitations or hutments in the core zone area, no rehabilitation or resettlements will arise here.
- Project provide around 200 direct employment and
- More than 500-600 indirect job prospects.
- Improvement of various services such as ancillary services, trading chances, logistical activities of transport of iron ore, green belt creation, etc.,
- The state and central Government will stand to gain financially by incomes on account of royalties, cess, and income tax.

CSR Activity and budgetary provisions proposed in the project:

Component	Activity	Beneficiaries	Amount
Health	Health Checkup and child Immunization Camps at Model villages at Jhitti PHC.	800	3,50,000
	~~Free medical facility at to people ofnearby~~	~~1400~~	

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	area		
	Arrange external health worker for institution delivery and first aid at village level	1400	
	Establish at least one anganwadi center for each village for reduce problem of malnutrition and pre-school education	80	
	Donation of Ambulance to Primary Health Centre, Jhitil	500	5,00,000
Sustainable livelihood Programs	Develop and promote SHGs for villages with an aim to empowering their socio-economic status through saving and Income generation activities through micro finance.	500	2,00,000
	Develop self-employment by skill development in nearby population of village Googri and Dobiyara	200	1,00,000
	Arranging Samuhik Vivah, fund avilable for Vridha ashram and development of Aanganwadi	200	1,00,000
Education	Tree and provisions of Tree Guards to nearby schools	All villages	4,00,000
	Additional Class rooms constructions and reform the school nearby village Jhitti and Boundary Wall of other villages	900	
	Give best student award in merit list, presence in classes, discipline, Sports and other Co-curricular activity on various function	50-100	
	Education tour programme	500	1,00,000
	Arranging temporary primary teachers in nearby school	500	1,50,000
Infrastructure Development	Road development for smooth transportation of mineral	50 km.	3,00,000
	Establish the hand pump for pure drinking water for village tikriaand for schools.	2000	3,00,000
	Develop drinking water facility by drilling borewells and making pump & tank scheme for nearby villages.	Nearby villagers	
Total Amount for CSR			**25,00,000**

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Cost proposed towards Environment

S.No.	Particulars	Capital Cost (in lac.)	Annual recurring cost (in lac.)
1. i)	Establishing a small lab for environment monitoring	20.00	-
	Yearly monitoring expenditure		2.00
2.i) ii)	Cost of water tanker	55.00	-
	Cost of watering	-	6.00
3.i) ii) iii)	First Aid Room	3.00	-
	Miscellaneous equipment	3.00	-
	Health check up	-	3.00
3. a) b)	Afforestation	-	-
	Cost of plant protection measure	2.00	1.00
	Upkeep/plantation of 1500 plant year	-	3.00
4.	Ear muff & plug and dust control measures.	1.0	0.50
5.	Miscellaneous	1.0	1.00
	Total	**85.00**	**16.50**

Public Hearing Proceedings:

Total 453 objections/ suggestions were received during public hearing. PP has submitted reply to the points raised during the public hearing. Based on the public hearing PP has submitted following action plan:

1. There was overwhelming opinion of about starting of mining operation which is giving employment to number of villagers doing, development work in the area.
2. The point emerge in the meeting that the people should get employment. The proponent assured that only local people will get employment, excepting 3-4 supervisory and managerial staff who are not available in the area.
3. Regular water sprinkling is done on the mine road and nearby area to suppress the air borne dust, for this purpose 4 tankers are deployed in mine.
4. A meeting with the local villagers, panchayat and the management will be held every month to sort out problems of the villagers, this will be done on priority basis.
5. Alternative road will be made within a period of 6 month as per demand of the villagers.
6. Medical facilities has been provided to the mine workers and the villagers, for which regular medical camp is been arranged apart from medical facilities already existing in mine.
7. Afforestation @ 1500 trees per year will be done to make the area beautiful

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to check soil erosion and to arrest air borne dust in the area.

8. The transportation of mineral is done by covering the dumpers with tarpaulin, this will be done in future also.

It was informed that the PP has committed following during the public hearing

i) An ambulance as per demand of public has been booked and it is likely that the same will reach mine site within a weeks time.
ii) An additional room in Aganwadi along with furniture shall be constructed within a period of four month costing to Rs. 2.00 Lac.
iii) Two nos. of additional teachers will be employed in the school costing to Rs. 7000/- per month, that presently five additional teachers are engaged in school, thus total seven teachers will be work in school on the payment of Rupees 3500/- P.M. per teacher.
iv) A play ground will be developed in the school building deploying machinery of the project proponent, it will cost about 1.50 Lac. it will be done in a months time.
v) Water supply under Nal Jal Yojana will be developed in three village namely Kotamukh, Jhiti, Bidkheda costing to Rs. 6.00 Lac.
vi) A road 4 km. from Bidkheda to Jhiti costing and Rs. 8.00 Lac will be developed within a period of six months.
vii) Ghughri talab will be desilted by deploying machinery of the proponent which will cost about Rs. 2 Lac this will be done before monsoon.
viii) Ghughri road will be widened costing to about Rs. 3 Lac
ix) One Samudayik Bhawan (Community Centre) will be developed within a period of one years costing to Rs. 8.00 Lac.
x) One old age home (Vridha Ashram) in village Tikariya will be constructed and will be operated by the project proponent costing about Rs. 5.00 Lac in capital cost.
xi) A dispensary will be developed in village Tikariya and staff will be appointed, this will cost Rs. 2 Lac and will be developed within six month time.

After deliberations committee has asked the PP to submit response on the following points along with the supporting documents after which PP shall be required to make the presentation on the queries:

- Original copy of the Public Hearing proceedings was not received from SEIAA, hence it was decided by the committee that PP shall present the same.
- Compliances of the conditions of prior EC as received from MoEF have to be submitted in accordance to the MoEF Circular No. J-11013/618/2010-IA-II(I) dated 30/05/2012.

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- The predicted increase in GLC of SPM at village Jhiti is reported to be 41.728 ug / m3 the same has to be re-checked and presented before the SEAC.
- Affidavit for not carrying blasting & drilling operations.
- In coming meetings with affidavit for all the commitments made in PH.
- The plantation scheme is not satisfactory hence the same may be revised and submitted with inclusion of denser plantation.
- It was reported that a legal case in air / water act has been filed against the PP. If any other legal case is pending against the PP details of the same to be provided. An affidavit in this regard has to be submitted.
- OB management has to be detailed out and presented separately with drawings / maps.

10. Case no. 662/2012 - Mr. Ashish Tiwari M/s Varun Fertilizer Pvt. Ltd. 203,2nd Floor,Indore Trade Centre, SouthTukoganj, Indore,(M. P.) - ***Single Super Phosphate: 350 TPD (PSSP) Plot No.6,7,8,11,12,13 Industrial Area Sector 1,A.B. Road Dewas (Near Tata Squar ,Dewas) Distt. – Dewas (M.P.) (Cat. 5(b)*** **For – EIA Presentation**

Case was discussed 88th SEAC Meeting dt. 13/02/12 & 94th SEAC Meeting dt. 07/05/12

1. TOR issued vide letter no. 243 dt. 04/06/12

[Env. Consultant –M/s. GLOBAL ENVIRO LABS, Hyderabad]

This is a case for expansion of fertilizer plant with production enhancement from 30 TPD to 1000 TPD for manufacture of Single Super Phosphate (500 TPD GSSP & 500 TPD PSSP), covered under EIA Notification and mentioned at serial no. 5 (a). Cost of project is reported to be Rs 25.0 Crores. The EIA/EMP report of the project was forwarded by the SEIAA to SEAC for appraisal. Salient features as reported by the PP and his consultant are as follows:

Location features

Address of the unit	Plot. No: 6, 7, 8,11,12,13, Sector 1, Industsrial Area, Near Tata Square, Tehsil & District: Dewas, State: Madhya Pradesh .
IDA	Dewas Industrial Area
Latitude	22° 56‘’23.22" N
Longitude	76° 00‘’31.84" E
Land Availability	75000 Sq. Feets (6900 m2). Procurement of additional land has not been proposed.
Nearest Highway	1.6 km – NH – 3
Nearest Habitation	Shantinagar – 0.6 km
Archaeologically & Historically Important Sites & Sensitive Places	Nil within the study area
Sanctuaries/National Parks	Nil within the study area

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Forest Area	Nagda Reserved Forest – 5.5. Km - SE

Other features of the project are as follows-

Raw Material	Existing	After expansion
Rock Phosphate	17.1 T/day	570 T/day
H2SO4	10.8 TPD	360 TPD
Water Requirement (Source Ground Water)		
Process	5.18 KLD	172.8 KLD
Domestic	5.0 KLD	27.2 KLD
Power Requirement	120 kVA	500 kVA
Manpower	20	120

Silica is reported to be the Solid waste generated from the project to the tune of 0.9 TPD. Anticipated fluorine emission from the project is reported to be 17.81 mg / NM3.

Fugitive Dust will be generated during Rock Phosphate and Finished Product Handling & Vehicular movement. To control the air pollution following measures are proposed -

- Cyclone separators and bag filters in Grinding section
- Ventury, Cyclone separator and Scrubbers in Mixing section of SSP
- Dust collecting cyclones will be provided in the GSSP manufacturing section.
- 15 m. height of stack will be provided after cyclone separation and bag filtering of the dust from the Grinding section of the plant.
- A 30 m. height chimney venting traces of fluorine gas in to the air, after the three stage treatment of the pollutant from the dryer and den of the plant.
- The raw material will be unloaded with mechanical devices, which is reasonably closed and there will not be any fugitive dust problem.
- Fugitive Dust mechanical water sprinklers will be provided to spray water all around the stockpiles to suppress the dust.
- The scrubbing of flue gases released in the den shall produce liquid effluent acidic in nature and containing H2SiF6.
- PP is committed for the zero discharge of effluents.
- This 'liquor' will be collected and passed to settling tanks through a centrifuge for separation of the silica sludge.
- The silica sludge will be used as filler in the manufacturing of NPK.
- Clear liquid output of the pit shall be recycled in to the system for the dilution of sulphuric acid. Only 6 m3/day of domestic effluent will be generated and this will be sent to septic tank fallowed by soak pit.

After deliberations committee has asked the PP to submit following information with supporting documents:

1. Commitment that only powder SSP shall be produced in the unit and no granules shall be produced.
2. Compliance report pertaining to the air / water consent conditions has to be obtained from MPPCB and submitted along with the monitoring reports.
3. Copy of notification regarding declaration of the Industrial Area.

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4. Copy of application / Permission for water abstraction from the competent authority.
5. Details of the raw material / finished product storage facilities to be submitted.
6. Process flow-chart showing source of air / water pollution / fugitive emissions.
7. Plantation details to be submitted.

Discussion on Qry response and other issues

1. Case No. 667/2012 SEAC Qry. 91st Meeting dt. 3rd March 2012

Mr. Dinesh Gupta,M.D., M/s Prabhatam Infrastructure Ltd. Rastriya Tower, 38, Rani Jahansi Road,New Delhi- 55 **For Building Construction** *"Prabhatam Heights" Group Housing project Village- Hatai Khera ,Raisen Road, Bhopal (M.P.) Plot Area- 8,682.94 m^2 Buil - Up Area- 1,26,942.49 m^2*

The case was discussed in the 91st meeting of SEAC dated 03/03/2012. Following queries were raised by the committee members during the meeting:

1. The proposed site is located in vicinity of Hataikeda Lake and Ghoda Pachhad dam within 05 Km radius. A non-perennial nalla is also passing across the site bifurcating the plot into two parts. – PP is required to furnish following information pertaining to this fact – Origin of nalla and its termination. The protection measures for all the above mentioned water bodies should also be furnished.
2. Height of the buildings is reported to be less than 30 meters; in this context the PP is required to furnish following information with supporting documents justifying the guidelines issued vide O.F. of MoEF no. 21-270/208-IA.III dated 07/02/2012 - width of road (right of way), NOC from fire department, distance from location of fire station, NOC from state Disaster Management Authority.
3. It is noted that High Security Animal Disease Laboratory is operating in the near by area; distance of the project site from this lab has to be furnished.
4. STP: A write-up of the proposed STP with design details to be furnished.
5. MSW & sludge is proposed to be disposed off at the MSW disposal site of Bhopal Municipal Corporation; agreement / consent of BMC along with the financial implications to be submitted in this context.
6. A corpus fund should be created for execution of environment related obligations, accordingly plan to be submitted.
7. Consent of Bhopal Municipal Corporation for supply of water to be submitted.

Query response was received from the PP along with the supporting documents. Examination of the reply filed by the proponent reveals short comings:

- The response to the query at SN 1 is not specific; no plans pertaining to protection of water bodies have been submitted. PP is also required to submit details of HFL of the nalla passing across the proposed site.

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- Regarding creation of corpus fund it is noted that aspects pertaining to operation of STP & MSW facility and other routine operation & maintenance and monitoring as per the mendate, are not considered & no fund is created for such activities. The fund requirement for all such activities is to be estimated & corpus fund may be created either through buyers of by the PP itself. Accordingly proposal has to be submitted.

PP may be asked to submit above information with supporting documents for further action in the matter.

2. Case No. 681/2012 Mr. Rakesh Singh Kushwaha, Director, "MK CITY" of M/s Elixir Infrastructure India Pvt. Ltd., HIG- 194, Madhav Nagar, Gwalior (M.P.) – 474002 - *"MK CITY" of M/s Elixir Infrastructure India Pvt. Ltd. at Vill.- Sirol, Teh.- Morar,Distt. – Gwalior (M.P.) Khasra No. 18/Min-1k, 23/min-2, 25/Min-1, 30/Min-1, 82/ Min-1,21/Min-1, 26/Min-1, 21/Min-2, 26/Min-2, 82/2/G, 21/Min-3, 22, 23/Min-1, 25/Min-2, 26/Min-3, 30/Min-2, 18/Min-1, 21/Min-4,82/1 Min-2, 82/2 Total Land Area – 16841.88 sq. mt. ,Total Built Up Area of all Tower = 43,013.53 sq.mt.*

The case was discussed in the 95th SEAC meeting dated 08/05/2012. Whereby the committee has asked the PP to submit response to the following queries along with the supporting documents:

- Water balance is provided is not clear the same has to be revised and submitted.
- It was informed by the PP that ground water shall be used in the project; permission for abstraction is yet to be obtained from the CGWA. Committee has suggested exploring alternate source of water for the project, accordingly a proposal to be submitted.
- Details of Corpus fund for operation and maintenance of the STP and execution of EMP to be furnished.
- Name and addresses of the persons / agency, responsible for operation and maintenance of the STP and execution of EMP.
- Proposal for disposal of MSW incorporating- door to door collection, segregation at source, locations of bins, pucca platform for storage of MSW, to be furnished.
- Distance from the fire-station verified from competent authority and width of the main approach road as per the MoEF's O.M. dated 07/02/2012.
- Total Green Area in the premises has to be furnished.
- Parking lay-out planned in the project to be submitted.
- Disposal details for the excess treated sewage to be furnished along with the details of receiving catchments.
- Micro-level features in the 2 Km radius around the proposed site to be furnished on map.
- Highlights of application of ECBC and green building concepts to be furnished.
- Status of the project with respect to the quantum of construction (if any) to be furnished.

Response to the above queries was submitted by the proponent on 06/06/2012. The same was placed before the committee in this meeting. The reply was examined by the members and it was observed that almost all the queries have been responded satisfactorily. The EMP submitted after incorporating the suggestions of the SEAC is acceptable hence committee recommends the case for grant of prior EC subject to following special conditions:

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1. The total consumption of water for the project shall be 323 KLD and fresh water requirement in the project shall not exceed 203 KLD, rest about 120 KLD shall obtained from treated waste water .
2. STP with capacity to treat 285 KLD sewage shall be installed.
3. The treated waste water estimated to be 242 KLD shall be used for reflushing and various other purposes including back-wash for sand filters, activated filtration column etc.
4. A covered MSW storage with loading facility shall be provided with capacity to hold MSW of 02 days.
5. Sludge from STP will be passed through filter press. The compressed sludge will be disposed off along with MSW to the MSW dumping site of Municipal Corporation and the filtrate will be put back to the Raw Sewage storage for re-treatment in STP.
6. MSW shall be disposed off at the designated disposal site of Gwalior Municipal Corporation; the responsibility of transportation shall be born by the project proponent.
7. Parking shall be strictly as per the norms laid down by the MoEF.
8. Other general conditions shall be applicable to the project.

3. Case No. 655/2012 Mr. Mahendra Bulchandani, Partner, M/s Rishikesh Nirman Colonizers Developers, E-2/68, Ist Floor, Arera Colony,Bhopal (M.P.) – 16 - *Group Housing Project " The Bellaire" at Khasra No. 471/2, 471/2/1 & 471/3, 503/1/2/3, 503/1/2/3 ,503/1/1/4, 503/1/1/6, 503/1/1/5, 503/1/2/2, 503/1/1/3, 503/1/2/4, 503/1/1/2, 474/1/1 Village – Gondermou, Tehsil - Huzur, Distt.- Bhopal (M.P.) Plot area – 33,155.73 m2, Built Up area – 48,967 m2-*

The case was discussed in the 85th SEAC meeting dated 13/12/2011 whereby the PP was asked to submit following information with supporting documents:

1. Permission / Commitment from Bhopal Municipal Corporation for supply of requisite quantity of fresh water.
2. Land diversion certificate for complete authority.
3. Fund allocation, its operation and commitments from the PP for execution of Environmental Management Plans and the required monitoring.

Response to the above queries was submitted by the proponent on 13/06/2012. The same was placed before the committee in this meeting. The reply was examined by the members and it was observed that almost all the queries have been responded satisfactorily. The EMP submitted after incorporating the suggestions of the SEAC is acceptable hence committee recommends the case for grant of prior EC subject to following special conditions:

1. The total consumption of water for the project shall be 341.7 KLD and fresh water requirement in the project shall not exceed 178 KLD.
2. STP with capacity to treat 275 KLD sewage shall be installed.
3. The treated waste water estimated to be 273 KLD shall be used for re-flushing and various other purposes including back-wash for sand filters, activated filtration column etc.

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4. A covered MSW storage with loading facility shall be provided with capacity to hold MSW of 02 days.
5. Sludge from STP will be passed through filter press. The compressed sludge will be disposed off along with MSW to the MSW dumping site of Municipal Corporation and the filtrate will be put back to the Raw Sewage storage for re-treatment in STP.
6. MSW shall be disposed off at the designated disposal site of Municipal Corporation; the responsibility of transportation shall be born by the project proponent.
7. Parking shall be strictly as per the norms laid down by the MoEF.
8. Other general conditions shall be applicable to the project.

Discussion on other matters

Case No. 429/2009 - SEIAA letter no. 251 dated 26/05/2012

The letter received from SEIAA was placed before the committee. In context to the matter regarding violation of the provisions of EIA Notification, it noteworthy that many mines in the state were operating prior to the notification and they continue to operate even after the notification came in to existence, though it was mandatory for the mine owners to obtain prior EC at the time of renewal of their mining lease. These mines were closed in compliance to the order passed by the Hon'ble High Court of Madhya Pradesh, till time they obtain prior EC. The mine under discussion also falls under such category. The violation was committed by the mine owner in past (Operating without EC) and later the proponent of the project applied for prior EC in compliance to the Court Orders. The concerned departments i.e. State Govt. of M.P. / MoEF based on their assessments may take suitable legal action against the project Proponent post-facto. Accordingly the condition has been imposed in the prior EC recommendations for the project.

Meeting ended with thanks to the Chair.

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