The meeting conducted on 23rd July 2012 was presided by was presided by Shri S.C. Jain, Chairman. Following members attended the meeting-

1. Shri K.P. Nyati, Member
2. Dr Mohini Saxena, Member
3. Shri A.P. Srivastava Member
4. Shri V.R. Khare, Member
5. 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. **Confirmation of minutes of 96th & 97th meetings of SEAC dated 13th and 14th June 2012**
   The minutes of **96th & 97th meetings of SEAC dated 13th and 14th June 2012** were confirmed and approved.

2. Consideration of the Projects

11 cases were invited to make presentation before the SEAC.

1. Case no. 607/2010 M/s IVRCL Infrastructure & Project Ltd, Office Camp, Village - Gyanpura, Jhabua Raod , Distt. - Dhar(M.P) 476001 - Mining Unit Khasra no.62/1/1 at Village- Rangwasa Teh; Dapalpur & Distt.- Indore (M.P) Proposed Capa.- 12 Lac Cubic Meter/Annum. Produced-Basalt Rock,Total land area – 41.1 ha. Lease area – 37.5 ha. **For EIA Presentation**
ToR issued vide letter no. 362 dt. 19/12/11
Env. Consultant – Not Disclosed.

Proponent has submitted a request for consideration of the project in next month's meeting as he could not attend the meeting due to some unforeseen circumstances. Committee accepted the request and allowed the PP to present the EIA /EMP in the next month's meeting.

2. Case no. 709/2012 Shri Sankatha Prasad Dwivedi, P.O. & Village – Goraiya, Tehsil – Rampur Baghelan, Distt. – Satna (M.P.) *Janardanpur Limestone and Laterite Mine along with Crusher Khasra No. 485, 486, 487, 489, 490, 491, 492, 496, 499, 500, 501, 505, 506, 507 & 508 at Village- Janardanpur Tehsil – Rampur Baghelan, Distt. – Satna (M.P.)* ***Proposed Capa. – 0.40 MTPA*** *(0.30 MTPA lime stone & 0.10 MTPA reject stone),* ***Lease area – 25.256 ha.*** **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:

- The ML area is located near village Janardanpur, Taluka Rampur Bagehlan, District Satna
- The area under reference is revenue land and the state Government of M.P. vide their letter no.- F3-13/2007/12/1 Bhopal Dated- 10.09.2007 granted mining lease to the applicant for 30 years period w.e.f. 26.09.2007 to 25.09.2037.

Project	Janardanpur limestone mine along with Crusher
Location	Janardanpur village, Tehsil Rampur Baghelan, District Satna, Madhya Pradesh State.

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

Total Area	25.256 ha
Type of Lease Area / Ownership	Revenue Land
Cost of the Project	4 Crore 10 lac
Mining Plan Approval	Letter No. – MP/Satna/Limestone/MPLN/G-06/ 2007-08 dated 18.07.2007.

Accessibility Details

Road: The applied area is 30 kms from Satna via Chiboura turning. It is 18 kms from Satna towards Rewa up to chhiboura turning. From here the applied area is 12 kms. towards north via Mankahri and Sejahata. Chhiboura - Sejahata - Janardanpur - Chormari approach road is at a distance of about 100 m. towards east and south.

Railway Station : Satna (30 km) on Allahabad- Jabalpur BG section of WCR and Baghai at 8 Km in south.

Nearest Town : Satna 30 Km

Dist. Headquarter : Satna 30 km

Elevation : Highest Elevation: 300 m AMSL in North Lowest elevation: 295.50 m AMSL in South

Ultimate depth of Mining : 14 m deep from existing surface level

Ground water table : 25m bgl (No Ground Water Intersection)

Latitude : $24^0$36'24" to $24^0$36'47" N

Longitude : $81^0$05'30" to 81^0 05'49" E

Environmental Sensitivity

Dila Nalla	-	2 Km South
Nar Nadi	-	5 Km West
Tons River		6 Km North West
Simrawal Nadi	-	7.50 km NW
Kaniari Nadi	-	7.50 Km East
Sathari RF	-	0.30 Km North, 3.50 Km WSW and 2.50 Km SE
Open jungle	-	4.0 Km SW

Salient features of the Project:

ORE TO BE MINED	**LIMESTONE**
Mining Methodology	Opencast other than fully mechanized along with crusher
Total Mineable Reserve	Limestone-6.0 million tones Reject Stone-2.0 million tone
Total Waste Generation	4600 MT/month
Max. Rate of Production	0.30 MTPA limestone & 0.10 MTPA reject stone
Anticipated Life of Mine	20 years
Water Requirement	50 m^3/day
Water requirement	Source - From sump, Ground water from dug wells / tube wells

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

Dust suppression	45.0 m^3/day	Total 50.0 m^3/day
Green belt		
Domestic Drinking	5.0 m^3/day	

- Opencast other than fully mechanized method, drilling and blasting may be carried out with 32mm dia holes up to 1.5m depth.
- The OB and ore will be excavated and loaded manually/ mechanically on dumpers.
- The height of the bench will be upto 6m. The width of the bench will vary from 6m to 10m
- Total waste generation during life of mine is about at the rate 4600MT/month
- The total waste generated is in the form of OB and Soil
- The OB/waste generated will be utilised for backfilling besides utilisation for preparation of the protective bund on which plantation will be raised
- Composition of Mineral: CaO : 35-46 %
  MgO: 2-4 %
  Silica: 4- 10%

Proposed Plantation Scheme

Year	Plantation during the year (No. of saplings)	Area covered during the year			Survival rate%	**Species proposed** Neem, Gulmohar, Mango, Sagwan, Shisham, Kachnar, Gamhar, Jamun, Agaves, Babool, Sub-babool, Karanj and Amla etc. tress will be planted every year
		BF Area Nos. Area (sqm)	Dump Nos. Area (sqm)	Green belt Nos. Area (sqm)		
Lease Period	16500	13000/65500	Nil	3500/17850	80	

Budgetary Provisions:
Capital Cost: Rs 4 Crore 10 Lac

Sr. no.	Description	Cost in Rs.
1	Land cost expenditure	2,00,00,000.00
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	1,00.000.00.00
3	Environmental protection (check dams etc)	5,00,000.00
4	Socio-economic development	5,00,000.00
5	Crusher	1,00,00,000.00
TOTAL		4,10,00,000.00

After deliberations committee has approved the TOR suggested by the PP with inclusion of following TORs' to be addressed in the EIA /EMP:

- The site appears to be surrounded by the Sathari RF from three sides hence AAQM stations should be placed all along the three boundaries of the site falling towards the Sathari RF.
- Details of the Corporate Environmental Responsibility and CSR have to be given as a separate chapter along with budgetary provisions.
- Micro level water shade clearly showing the drainage from the site in to the nearby water bodies i.e. Dila Nalla, Nar Nadi, Tons River, Simrawal Nadi and Kaniari Nadi.
- Arrangements proposed / made to protect the water bodies from the mine-drainages have to be dealt in detail in the EIA/EMP.

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

- Summary of EIA / EMP has to be provided separately along with the EMP detailing impacts, impact zone and mitigations has to be furnished in the following format:

AIR Environment

SN	Expected Impact	Impact zones	Management Plan

WATER Environment

SN	Expected Impact	Impact zones	Management Plan

LAND Environment

SN	Expected Impact	Impact zones	Management Plan

NOISE Environment

SN	Expected Impact	Impact zones	Management Plan

Details of Public Hearing Proceedings

SN	Issues raised (details thereby)	Response of Proponent	Comments

- Other points as suggested by the SEAC in TORs' of mining projects shall also be applicable.

3. Case no. 517/2010 Shri Manwendra Singh, Vill. & P O Ghuraiya, Tehsil – Tehraoli, Distt-Jhansi - (U.P.) *Silpatpura Granite quarry lease area 6.75 ha. at village Silpatpura, Teh-Laundi, Distt-Chhatarpur-M.P.* For – EIA Presentation

ToR issued vide letter no 439 dt. 24/06/10

Env. Consultant – Creative Enviro Services, Bhopal (M.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 is less than 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. PP has submitted copies of following documents:

1. *Information from forest deptt. Indicating that the distance of site from Ken Gharial Sanctuary is about 11 Km and distance from the RF is about 520 meters.*
2. *Latter from mining deptt. Stating that the inter-state border (UP) is aboutr 16 Km from the site.*
3. *NOC from Gram-Sabha, Silpatpura.*
4. *Mining Plan approved by the Directorate Geology & Mining Deptt.*
5. *Copy of Mining Lease.*

The case was presented before the committee by the PP and his consultant, which reveals following features of the project:

Objective	To obtain Environmental Clearance For Granite Mine (6.750 Ha)
Production Capacity	8000 cum per Annum
Jurisdiction of Mine	Govt. Land
Public Hearing	26.04.2011
Khasara No	Part of 28/1 – Block-F

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

Location of Mine	Village- Silpatpura, Tehsil- Laundi, Dist.- Chhatarpur (MP)
Lessees	M/s Manvendra Singh
Quarry Period	05.05.2009 to 04.05.2029

Environmental & Geographical settings:

Particulars	Details
Latitude Longitude	25°03'28' N 79°59'05''E
Elevation range	Highest-205 m RL, Lowest- 185m RL
Nearest National Highway	State highway – 3.5 km
Nearest Railway Station	Khajuraho - 40 km
Nearest Airport	Khajuraho - 40 km
Nearest Tourist Place	None within 10 km radius of the study area
Archaeological Important Place	None within 10 km radius of the study area
Ecological Sensitive Areas	None within 10 km radius of the study area
Reserved / Protected Forest within 10km radius	Silpatpura PF - NE - 1.5 km Lauri PF - N - 9.5 km
Nearest Town / City	Laundi - 7.0 km
Nearest Village	Silpatpura - SW - 0.5 km
Nearest River/ Nalla	Urmal Nadi - W - 2.0 km Mahan Nalla - SSW - 2.5 km Mudiha Ghat Nalla - ENE - 5.0 km Khamuwah Nalla - ENE - 7.5 km Sangalri Nalla - SE - 7.5km Kataiha Nalla - E - 5.0km Basaha Nalla - NNE - 6.0km Man Sagar - NNE - 8.5km Sukh Sagar - SSW - 6.0km

Micro-level features around the proposed site:

PARTICULAR	Detail
VILLAGE	
Silpatpura	Distance -0.5 km, Direction – SW, House Hold – 135, Population- 958 no,
Devikhera	Distance -2.30 km, Direction – WNW, House Hold – 69, Population- 338no,
Parsaniyan	Distance -12.0km, Direction – SE, House Hold – 309, Population- 1845 no,
Mine	6no.
Surface water	Umral River – W-2.0
Forest	Silpatpura PF- NE- 1.5km

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

CSR Budgetary provisions:

Activity	Exp. Incurred
Toilet Facility at Village Bhaira, Silpatpura	Rs. 25,000/-
Handpump facilities in Bhaira, Silpatpura	Rs. 25,000/-
Deeping of village pond	Rs. 25000/-
Provision of carpus fund for social /developmental activities like provision of infrastructure facility, medical camps etc as proposed by Village Panchayat	Rs. 50,000/- per year

Salient features of the project

Particulars	Details
Type of Mine	Open Cast /Mechanised
Mining Lease Area	6.750 Ha
Mineable Area	6.0 Ha
Existing Pits & Quarries & dumps	0.65 Ha
Infrastructure and road	0.1 Ha
Plantation	Nil
Recoverable Reserve	121500 cubic meter
Ultimate Depth of Mining	25 m
Ultimate Pit Slope	60^{o}
Proposed capacity	8000 cubic meter per annum
Expected Life of Mines	20 years
Area to be covered under dumps by quarry period end	Nil
Area covered under pit by quarry period end	6.0 Ha
Area to be reclaimed by quarry period end	6.0 Ha
Area to be converted as water reservoir	Nil
Area to be covered under plantation by quarry period end	6.0 Ha
Average mRL	205-185m RL
Ground water table	
Monsoon period	10m bgl (175mRL)
Dry month	12m bgl (173mRL)

Conceptual Plan

Items	Existing	At the end of lease period
Total lease area	6.750 Ha	
Geological Reserve	121500 cum	-
recoverable reserve	121500 cum	-
Ultimate depth of mining	4	Up to 180mRL
Ultimate pit slope	60	60
Area under pits & Dumps	0.65 Ha	6.0 Ha
Overburden quantity	600 cum	891000 cum
Area to be reclaimed	Nil	6.0 Ha

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

Infrastructure & Road	Nil	Nil
Mineral storage	Nil	Nil
Plantation	Nil	6.0 Ha
Water body	0.19 Ha	0.75 Ha

Methodology

Mining Method	• Prospecting operation has been completed. Opencast mechanical mining method will be adopted using HEMM with blasting to lose the harder portion of rock. • Loading and unloading on trucks will be done by mobile crane. The overburden removable may be done at times by excavator cum loader. The haul road has been extended up to the bottom of the quarries. During the five year haulage road will be developed at the gradient of 1:16. • The mine worked in 1 bench during the first five years. All benches are proposed to be given in mineral granite. The height of the bench will be very from 3m to 6m and the width of the last bench will be following the quarry floor
Blasting detail	Spacing : 1.00 m Burden : 0.8 m Depth of hole : 1. 5 m Charge per hole : 280 gm Powder factor : 12t/kg explosive Diameter of hole : 34mm
Water Consumption (Avg.)	Dust Suppression – 4 kl per day from mine pit water Domestic activity – 2 kl per day from proposed hand pump Green Belt - 2 kl per day from mine pit water
Water reservoir capacity	Existing - 0.19ha x 3m = 5700kl (quarry-1) proposed – 0.75ha x 5m = 37500 kl

Public Hearing: The proceedings of PH were dealt in detail . Public hearing was conducted on 26.04.2011 from 11.00 pm at Mine Premises, Village- Silpatpura, Tehsil- Laundi, Dist-Chhattarpur (MP). Total 38 people have attended the public hearing and certain suggestion (6 no. written observation) given during the public hearing. PP has given satisfactory response to the raised issues. PP has committed to construct Hand Pump for drinking water in the village. PP has also committed to construct road with help of Gram Panchayat.

Air Pollution Control measures proposed:

- It is proposed to carry out water spraying by the tanker.
- Considering the location of village (South west direction) and prominent wind direction, dumping is proposed towards northern direction.
- Over burden dumps will not be left active for longer period and will be used for reclamation purposes.
- Over burden dumps will be temporary stabilized with legumes and grasses to prevent the erosion of soil and to arrest the dust emission during windy days.
- Water will be sprayed over the muck pile and dumps to reduced the dust generation;
- Dust mask will be provided to all workers.
- Regular maintenance of vehicles and machines will be carried out in order to control emissions;
- Cutting tools for granite shall be used with the spray of water to reduce the dust emission.

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

- During the drilling of granite block, water will be sprayed, so reduced the dust emission.

Proposed Noise level control measures:

- Noise is considered as an occupational hazard. Blasting is an occasional and impulsive event, which needs to be carried out in an isolated manner.
- No workforce shall be allowed during blasting time, so that the workers are not exposed to impulsive noise level. The noise generating points will be enclosed to minimize the propagation of high noise intensity.
- The workforce working at the mining face, where high noise level is expected, will be provided with protective device for occupational safety.
- Apart from above, the formation of internal dump and green belt development will also muffle the noise to a great extent.
- Regular maintenance of machines and vehicles hall be carried out. All moving parts of machine will be properly lubricated; Non-moving parts of machine will be properly fastened;
- A barrier of green belt at mine boundaries will be made to reduce propagation of noise

Proposed Water Pollution Control Measures:

- Deepening of village pond will be carried out by the proponent.
- No dumps shall be created in SW direction, to prevent the silt flow to the pond.
- At the end of mining, no dumps shall be there and temporary dumps which will be used for backfilling shall be provided with the garland drain individually. Garland drain will be also constructed around the pit
- Retaining wall will be made along the waste dumps which will restrict/retain the loose particles.
- Garland drain around the proposed dumps and pit, shall be diverted at quarry number -1, which is 49X 33-48 X 4 m and will be act as water retaining structure as well as settling tank.
- It is also proposed to provide drain at the foot of the hillock in SW direction to prevent the flow of silt towards the village and agricultural land.
- During lease period 0.75 ha area will be converted as a water reservoir.
- Quality of water of settling tank will be checked at pre-monsoon and post- monsoon.
- The accumulated water will be provided to farmers of the villages.

Solid Waste Management:

- The overburden is in the form of weathered granite and cavity filled with murrum and clay
- The waste will be dumped towards northern side of the lease area. Weathered granite/mine waste will be used for backfilling and reclamation purpose.
- The dumping yard is about 1.0 ha in area and the height of the dump will be up to 10m.
- The sides will be sloped at 36 degree and the inactive sides will be vegetated with fast growing grasses and mulches.
- Size of dump during next five year will be 86m*25m*3m
- During quarry period/mine life about 891000 cum of weathered granite and cavity filled with murrum and clay will be generated.
- During the 6th year to 10th year about 0.17ha area will be backfilled, and 10th to quarry period/mine life about 5.83 ha area will be backfilled.
- During the 6th year to 10th year backfilling will be proposed in the quarry 4.

Plantation Scheme:

Year	Unworked area green belt	Outside dumps (reclaim)	Inside Dumps	Top soil dumps	Total

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees
Present	-	-	-	-	-	-	-	-	-	-
1st			0.025	50					0.025	50
2nd			0.05	100					0.05	100
3rd			0.05	100					0.05	100
4th			0.075	150					0.075	150
5th			0.10	200					0.10	200
6th to lease period	-	-	5.7	5700					5.7	5700
Total	-	-	6.0	6300					6.0	6300

After deliberations committee has asked the PP for submission of response to the following queries along with the supporting documents:

- NOC from local authority for obtaining water from the village sources to be submitted.
- NOC from the competent authority for opening hand pump at site & village to be obtained and submitted.
- Summary of EMP incorporating the points suggested by the committee to be submitted.
- Exact distance of village Silpatpura has to be submitted along with the GPS co-ordinates.
- As mining site is located on higher elevation with respect to the village Silpatpura, extra efforts planned by the PP to protect the habitation (village- Silpatpura) from the possible impacts of the mining activities/transportation have to be detailed out and submitted.
- Details of retaining wall proposed for storing mine waste in the western side has to be submitted.
- Details of settling tank with dimensions and connectivity with garland drain to be submitted.
- Justification for the shown water consumption (esp. green belt) to be submitted.
- Details of Corporate Environmental Responsibility as per the MoEF O.M. dated 19/05/2011 and 18/05/2012 to be submitted along with the budgetary provisions.

4. Case no. 710/2012 Shri Ajay Pal Singh, Partner, M/s Khajuraho Minerals, Toriya House, P.O. & Distt. – Chhatarpur (M.P.) – 471001- *Expansion of Silon Salaiya Pyrophyllite & Diaspore Mine Crusher Khasra No. Compartment Number:- 558 Forest Range & Division : Chhatarpur at Village- Silon Salaiya, Tehsil – Raj Nagar,, Distt. – Chhatarpur (M.P.) Proposed Capa. – 25000 TPA (Existing Capacity- 2000 TPA / 5.0 ha.) Lease Area – 5.0 ha.* 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 is less than 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.

(S.C. Jain) **Chairman** | **(K.P. Nyati)** **Member SEAC** | **(A.P. Srivastava)** **Member SEAC**

(V.R. Khare) **Member SEAC** | **(Dr Mohini Saxena)** **Member SEAC** | **(R.K. Jain)** **Member Secretary**

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. Hence the committee decided to call the PP in the meeting as per turn.

5. Case no. 711/2012 Shri Ajay Pal Singh, Director & Attorney, M/s Khajuraho Minerals Pvt. Ltd., Post Box No. – 24, P.O. & Distt. – Chhatarpur (M.P.) – 471001 *-Pathariya Granite Deposit Mine at Khasra No. 852/8/2,852/11,852/3/25/1,,852/3/25/2,852/3/25/3 Village- Pathariya, Tehsil – Raj Nagar,, Distt. – Chhatarpur (M.P.) Proposed Capa. – 18000 Cum per annumn Lease Area – 3.642 ha.* 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 is less than 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:

Background of Project

- The area was previously sanctioned under prospecting license to the lessee for 2 years period vide State Government order no.- 928/Khanij/2011 dated 11.08.2011. The PL deed was executed and registered on 27.08.2011 for 2 years PL period.
- The State Govt. has issued a communication letter of precise area vide order No.- 778/Khanij/2012 dated 17/05/2012
- Production capacity is 18000 cum per annum of Granite.

Project Details

Project	**Pathariya Granite deposit**
Location	Village : Pathariya Tehsil : Rajnagar District : Chhatarpur
Total Area	3.642 ha
Type of Lease Area / ownership	Waste land/Own Land
Cost of the Project	2.0 Crores

Details of the project

Road : The lease area is 61 kms from Distt. Headquarter Chhatarpur (M.P.) via Bamitha, Khajuraho and Rajnagar while 43 kms via Vikrampur and Rajnagar

Railway Station: Nearest Railway Station is Khajuraho (16 km)

Airport : Khajuraho (16km)

Nearest Town : Rajnagar– 12 Km

Elevation : 179 m - 187 m AMSL

Ultimate depth of Mining : 16 m deep from existing surface level

Ground water table : 25m bgl (No Ground Water Intersection)

Latitude : $24^0$56'38.0" to $24^0$56'46.5" N

Longitude : $79^0$58'14.0" to $79^0$58'25.3" E

Environmental Settings:

Urmal Nadi : 5.50 km N E

Kutni river : 0.75 km South

Jamnai nalla : 2.0 km NE

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

Jhakhura Nadi : 3.50 km NW
Gadaraya Nadi : 2.0 Km south
Patharya PF : 1.20 Km NW
Rajnagar PF : 7 Km South

Salient Features of the Project:

Ore to be mined		**Granite**
Mining Methodology		Opencast other than fully mechanized
Total Mineable Reserve		3,49,632 m^3
Total Waste Generation		7100 MT/month
Max. Rate of Production		18000 cum per annum
Anticipated Life of Mine		30 years
Water Requirement		8 m^3/day
Activity	**Water requirement**	**Source**
Dust suppression	4.0 m^3/day	Sump &
Green belt	2.0m^3/day (additional 1m^3 will come from domestic waste)	
Domestic + Drinking	2.0 m3/day (1m3 of domestic waste will be used for green belt)	Ground water from dug wells/bore wells
Total	8.0 m^3/day	

Mining Details

- Opencast other than fully mechanized method of mining will be adopted
- The height and width of the benches will be up to 6m.
- Loading of the block of granite will be done by mobile crane in 10 t. or 15 t. truck
- Transportation of granite block to destination will be done by truck
- The OB soil and waste will be initially stacked outside the applied area in south and later backfilled in the mined out pits.

Land Use Pattern:

S.no	Land use	Fifth Year	Lease Period (ha)
1	Total area excavated (broken)	2.0	3.14
2	Area fully mined out (out of 1)	Nil	3.14
3	Area fully reclaimed (Backfilled out of 2)	Nil	1.035
4	Area rehabilitated out of 3 by afforestation	Nil	1.035
5	Area reclaimed by water harvesting	Nil	2.105

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

6	Total area under dumps	Nil	-
7	Area under active dumps	Nil	-
8	Area under mineral stack	0.50	-
9	Area under Road	0.05	-
10	Area under Green belt	0.05	0.502
11	Area under infrastructure	0.05	-
12	Undisturbed area	0.992	-
TOTAL		**3.642**	**3.642**

PP has requested for exemption from Public Hearing in the project as the Lease are is less than 5 ha. After deliberations committee has approved the proposed TOR along with inclusion of following points in the TORs':

- This mine is a continuous land adjacent to the mine detailed at Case No. 712/2012. The owner of these two mines is same. Hence committee has asked the PP to prepare a comprehensive EIA report for two projects.
- Regarding Public Hearing the committee has the opinion that as the project size is less than 5Ha PH hearing can be exempted but in present case same PP is proposing two adjacent mines with total lease area more than 5 Ha therefore Public Hearing has to be conducted.
- As per the MoEF Circular dated 28/04/2010 public hearing for two projects should not be conducted at same venue, date & time. However, as the two mines (case no. 711 & 712) are proposed by the same owner and these quarry-leases have been granted from same piece of land for mining of Granite a common public hearing may be allowed. This fact may be told in PH at the onset of hearing.
- One of the AAQM stations should be placed along the boundary of the site falling towards the Patharya PF
- Details of the Corporate Environmental Responsibility and CSR have to be given as a separate chapter along with budgetary provisions.
- Micro level water shade clearly showing the drainage from the site in to the nearby water bodies i.e. Urmal Nadi, Kutni River, Jamnai nalla, Jhakhura Nadi and Gadaraya Nadi.
- Arrangements proposed / made to protect the water bodies from the mine-drainages have to be dealt in detail in the EIA/EMP.
- Summary of EIA / EMP has to be provided separately along with the EMP detailing impacts, impact zone and mitigations has to be furnished in the following format:

AIR Environment

SN	Expected Impact	Impact zones	Management Plan

WATER Environment

SN	Expected Impact	Impact zones	Management Plan

LAND Environment

SN	Expected Impact	Impact zones	Management Plan

NOISE Environment

SN	Expected Impact	Impact zones	Management Plan

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

Details of Public Hearing Proceedings

SN	Issues raised (details thereby)	Response of Proponent	Comments

- Other points as suggested by the SEAC in TORs' of mining projects shall also be applicable.

6. Case no. 712/2012 **Shri Ajay Pal Singh, Director & Attorney, M/s Khajuraho Minerals Pvt. Ltd., Post Box No. – 24, P.O. & Distt. – Chhatarpur (M.P.)** – 471001 *Pathariya Granite Deposit Mine at Khasra No. 852/3/24, 852/3/28, 852/3/30, Village- Pathariya, Tehsil – Raj Nagar,, Distt. – Chhatarpur (M.P.) Proposed Capa. – 18000 Cum per annumn Lease Area – 4.990 ha.* **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 is less than 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:

Lease Details:

- The area under reference was previously sanctioned under prospecting license to the lessee for 2 years period vide State Government order no.- 927/ Khanij/2011 dated 11.08.2011. The PL deed was executed and registered on 27.08.2011 for 2 years PL period.
- The area under reference has been granted under Quarry lease to the applicant for 30 years period. The State Govt. issued a communication letter of precise area vide order No.- 290/Khanij/2012 dated 29.02.2012 to this effect
- Proposed production is 18000 cum per annum

Project	Pathariya Granite Deposit
Location	Village : Pathariya Taluka : Rajnagar District : Chhatarpur
Total Area	4.990 ha
Type of Lease Area / ownership	Waste Land/Own Land
Cost of the Project	2 Crore
Mining Plan Approval	Approved by Director, DGM vide Letter No. – 5279; dated 11.04.2012

Location:

Accessibility Details

Road : The lease area is 61 kms from Distt. Headquarter Chhatarpur (M.P.) via Bamitha, Khajuraho and Rajnagar while 43 kms via Vikrampur and Rajnagar

Railway Station : Khajuraho at a distance of 16 kms

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

Airport : Khajuraho at a distance of 16 km
Nearest Town : Rajnagar 12 km
Nearest City : Khajuraho, 16 km
District Headquarter: Chhatarpur at 61 Km

Geographical features:

Elevation : Highest elevation: 184 m AMSL, Lowest elevation: 176 m AMSL
Ultimate depth of Mining: 16 m from existing surface level
Ground water table : 25m bgl (No ground water intersection)
Latitude : $24^0$56'32.2" to $24^0$56'40.4" N
Longitude : $79^0$58'07.3" to $79^0$58'18.7" E
Urmal Nadi : 5.50 km N E
Kutni river : 0.75 km South
Jamnai nalla : 2.0 km NE
Jhakhura Nadi : 3.50 km NW
Gadaraya Nadi : 2.0 Km south
Patharya PF : 1.20 Km NW
Rajnagar PF : 7Km South

Salient Features of the project:

Ore to be mined	**Granite**
Mining Methodology	Other than fully mechanized
Total Mineable Reserve	3,16,913 cum
Total Waste Generation	7125 MT/month of solid waste (including soil and overburden)
Max. Rate of Production	18000 cum
Anticipated Life of Mine	30 Years
Water Requirement	8 m^3/Day(2.5m^3 for Green belt development , 3.5 m^3 for dust suppression & 2cum for domestic use)
Source of Water	From old ground water source for drinking while from mine Sump for dust suppression and green belt development
Working Days	300
Employment Potential	40
Site Services	Temporary site services have been constructed as per Mines Act and Mines Rule.

Methodology:

- Opencast other than fully mechanized method of mining will be adopted
- The height and width of the benches will be up to 6m.
- Loading of the block of granite will be done by mobile crane in 10 t. or 15 t. truck
- Transportation of granite block to destination will be done by truck
- The OB soil and waste will be initially stacked outside the applied area in south and later backfilled in the mined out pits.

(S.C. Jain) **(K.P. Nyati)** **(A.P. Srivastava)**
Chairman **Member SEAC** **Member SEAC**

(V.R. Khare) **(Dr Mohini Saxena)** **(R.K. Jain)**
Member SEAC **Member SEAC** **Member Secretary**

Land use Pattern:

S.no	Land use	Fifth year (ha)	Lease period end /mine life (ha)
1	Total area excavated (broken)	2.0	4.41
2	Area fully mined out (out of 1)	Nil	4.41
3	Area fully reclaimed (Backfilled out of 2)	Nil	1.40
4	Area rehabilitated out of 3 by afforestation	Nil	1.40
5	Area rehabilitated by water harvesting	Nil	3.01
6	Total area under dumps	0.50	Nil
7	Area under active dumps	0.50	Nil
8	Area under mineral stack	0.50	Nil
9	Area under Road	0.05	Nil
10	Area under Green belt (i.e. plantation on area other than dump and backfilled area)	0.05	0.58
11	Area under infrastructure	0.05	Nil
12	Undisturbed area	1.34	Nil
	TOTAL	**4.990**	**4.990**

Budgetary Provisions: Capital Cost : Rs 2.0 Crore

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

PP has requested for exemption from Public Hearing in the project as the Lease are is less than 5 ha. After deliberations committee has approved the proposed TOR along with inclusion of following points in the TORs':

Please refer to the minutes of Case No. 711/2012.

7. Case no. 714/2012 Dy. Genaral Manager (Operations) M.P. State Office, 16, Arera Hills, Jail Road, Bhopal (M.P.) – 462011 For ToR

Env. Consultant- Presentation made by the proponent.

The project pertains to Item No. 5(e) Category 'B' of the EIA Notification schedule. 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 pertains to the proposed additional tankage for MS & ATF and Tank Truck Loading Facility at existing IOCL terminal at Bangrod, District Ratlam. The presentation made by the PP reveals following features of the project:

Major Activities of Existing IOCL Terminal at Bangrod (Ratlam)

- Receipt of MS, HSD, SKO & ATF through pipeline from Koyali Refinery, Vadodara.
- Storage of 74448 KL petroleum products (MS, HSD, SKO & ATF) and Ethanol.
- Tank Truck and Tank Wagon Loading operations.
- Distribution of petroleum products in Madhya Pradesh.

Salient Features of Project

- Year of commissioning – 2009
- Command Area – village Bangrod
- Area of existing terminal – 35.17 Ha
- Additional area required – Nil.
- Details of Existing Prior EC- Granted by MoEF vide Ref No. J-11011/69/2005-IA.II (1) dt. 17/05/2006 for storage of 79258 KL of Petroleum product.
- Type of activity – Receipt, Storage and distribution of petroleum products.
- Source of products – Koyali Refinery, Vadodara
- Mode of transfer of product: Pipeline
- Mode of distribution: Road / Rail
- Water requirement: 5KLD for domestic, 30 KLD for topping-up of fire hydrant system, no additional requirement is opted for expansion.
- Waste water facility- 03 No of OWS have been installed.
- Hazardous waste generation- from cleaning of storage tanks reported to be once in five years. The waste is being disposed off through CTSDF.

After deliberations committee has suggested following points for inclusion in the TOR to carry out EIA / EMP studies in the project.

- General Composition of MS, HSD, SKO & ATF w.r.t. toxicity and explosive properties.
- Mode of transport of MS, HSD, SKO & ATF to and from the plant, risk analyses during transportation and safety measures thereby.
- Rapid risk analyses report of the plant to be conducted.
- On-site and Off-site emergency plan as approved by the Health & Safety department.
- Monitoring of hydro-carbon to be conducted in ambient air quality.
- Compliance of Air/Water Consent conditions.
- Details of fire fighting system installed / proposed.
- Details and frequency of the Mock Drills.
- Detail of the hazardous waste (oil-sludge etc) management plan.
- As it is a case of expansion/ modernization of the project, the environmental compliance status for the existing project should be included as separate chapter in EIA.

8. Case no. 718/2012 Smt. Radha Devi Sharma, C/o Sh. Shankar Lal Viswakarma (Power of Attorney)Jalpasevi ward, Gautam Mohalla, Distt. – Katni (M.P.) – 483501
Expanssion of Tikariya Bauxite & white Clay Mine, Khasra No. 2/1K, 2/2, 2/3KH, 2/5, 18/5, Village- Tikariya, Tehsil – Murwara, Distt. – Katni (M.P.) Lease Area- 16.187 ha. Proposed Capacity – 50,000 Ton/Year (Existing Capa. – 5,000Ton/Year) **For ToR**
Env. Consultant – Not Disclosed.

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:

Mining lease was sectioned from 20/03/1972 to 20/03/1992. Working was continue under Rule 24(A) 6 upto March 2012. Applications for renewal of mining lease is submitted dtd. on 19/03/1991 for renewal upto 20/03/2012 and on 20/10/2008. Lease area is located at a distance of 2.5 km south of district headquarter Katni on NH – 7, the area of mine is 16.187 ha.

Khasra No. 2/1K, 2/2, 2/3KH, 2/5, 18/5 Village - Tikariya
Village- tikariya
Tahsil - Murwara
Dist. - Katni
(M.P.)

The mining lease has been sanctioned for Mineral – Bauxite & White clay. Details of project setting given below:

Nearest City	Katni
Nearest Railway Station	Katni
Nearest Highway	Jabalpur – Varanasi (NH-7) is 0.5km
Nearest Village	Lakhera 0.5 km
Topography	Undulating type
Ecological Sensitive Zone	No national parks and sanctuary within 10 km radius

Details of Registry - Lease deed agreement from 20/03/1992 for 20 years.

Water requirement and Source of water - no water is reported to be used in the process the use of water is only for domestic purpose, the quantity of water required is approx. 20 KLD which shall be drawn from the nearby bore well and open wells.

Method of Mining: Existing mining is being carried out by opencast manual method of mining using hand tools such as chisel, spades, hammer and crow bar etc. Use of explosive is not required and same is not in practice. Cane baskets and tagadies will be used for haulage of mineral and waste. Manual sizing of mineral is being done at mine site, sorting of mineral is being done using manual hand screen.

Topography - Topography of the area is part of gentle rolling ground; highest elevation of the area is 412m. in south eastern part of the area whereas lowest elevation of the area is 390 m. in western part of the area. Elevation difference between highest elevation and lowest elevation is about 6 m. About 9 working pits are developed in the area. Few small waste dumps are there in the south eastern part of the area, large waste dumps are there in the northern and south eastern part of the area. Few mine roads are developed along the working pits within the area. Two power line of 220 volts is there in the central and western part of the area whereas , a high tension power line passes in the eastern part of the area, having about north east – south west alignment. About 50 m. barrier areas along the both side of power line is left as barrier area. A mine office is there out side along the southern boundary of the area.

Solid Waste Management - Top soil will be placed in the form of one dump along the southern barrier zone , mine waste and murrum waste generated during the proposed mining will be placed along the south eastern part of the area , within the barrier area of power line . The solid waste generated in the form of murrum which shall be placed in form of Dumps as the specification of IBM, and shall be surrounded by Garland drain.

Power Requirement: Power shall be required for domestic use and is being supplied by MPSEB.

Cost of the project: At present the mine is not in operation. The project shall be proposed to start after obtaining Environmental Clearance. Total estimated initial cost of the project is approx. 50.0 Lac and it would be increased to 1.0 crores to establish the full mining operations.

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

Green Belt Development Plan - Assess the green belt development plan in scientific and planned manner on backfilled area, haulage road and along the boundary as a part of an on going programme.
Rehabilitation & Resettlement Plan: The total area of the lease is 16.187 ha sectioned by Govt. of M. P. and the land is hillock and there is no human settlement or agriculture field is exists therefore, no R & R plan is required.
After deliberations committee has suggested the inclusion of following points in the TOR to carry out EIA / EMP studies:

- One of the AAQM stations should be placed along the boundary of the site falling towards the forest (if any in 5 Km radius around the site) and also ambient air qualiy has to be monitored along the boundary towards the high-way.
- Details of the Corporate Environmental Responsibility and CSR have to be given as a separate chapter along with budgetary provisions.
- Micro level water shade clearly showing the drainage from the site in to the nearby water bodies .
- Arrangements proposed / made to protect the water bodies from the mine-drainages have to be dealt in detail in the EIA/EMP.
- Summary of EIA / EMP has to be provided separately along with the EMP detailing impacts, impact zone and mitigations has to be furnished in the following format:

AIR Environment

SN	Expected Impact	Impact zones	Management Plan

WATER Environment

SN	Expected Impact	Impact zones	Management Plan

LAND Environment

SN	Expected Impact	Impact zones	Management Plan

NOISE Environment

SN	Expected Impact	Impact zones	Management Plan

Details of Public Hearing Proceedings

SN	Issues raised (details thereby)	Response of Proponent	Comments

- Other points as suggested by the SEAC in TORs' of mining projects shall also be applicable.

9. Case no. 720/2012 Smt. Manisha Nayak, M/s Sohini Agency Pvt. Ltd. , Nayak House, 114 Manbhawan Nagar, Madaorao Sindhiya Chauraha, Indore (M.P.) –16 Bijaiyan Laterite & Quartz Deposit Mineat Khasra No.59 Part, 88 Part, 90 Part, 91 Part, and 92 Village – Bijaiyan,Tehsil – Sihora, Distt. – Jabalpur (M.P.) Area- 16.87 ha., Capacity & Minerals: Laterite & Quartz mine – 10,000 MTPA **For ToR**

Env. Consultant – Not Disclosed.

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:
It was reported that the Sohani Agency Pvt. Limited is a registered company under

company's Act 1956 (No. 1 of 1956) and it is a private Limited Company. The Govt. of Madhya Pradesh has issued a letter No. F-3-8/2011/12/2, Bhopal dtd. 19/05/2011 & 24/01/2012, to submit Approved Mining Plan from IBM. The Indian Bureau of Mines has approved mining plan over an area of 16.87 ha for minerals of laterite and quartz vide their letter No. MP/Jabalpur/ Laterite/MPLN-05-/11-12.

Location of the Project

District/State	Tahsil	Village	Khasara No.	Area	Ownership
Jabalpur (MP)	Sihora	Bijaiyan	59 part, 88 part, 90 part, 91 part and 92	16.87 ha	Govt. Land
			Total	16.87 hectare	

The applied area is reported to be 50 km from Distt. Headquater Jabalpur (M.P.) towards north-east. It can be approached from Jabalpur on N.H.-7, up to Gosalpur (35 km) north east direction and then 16 km towards eastern direction via Agariya and Tikariya. It is 1.0 km south east of Bijaiyan village. The nearest railway station is Gosalpur at a distance of about 14 km.

S.N	Particulars	Details
1	Nearest City	Sihora -28 km
2	Nearest Railway Station	Gosalpur- 14 km
3	Nearest Highway	NH-7 – 11 m
4	Nearest Village	Bijaiyan 1.0 km
5	Topography	slope
6	Ecological Sensitive Zone	No national parks and sanctuary within 10 km radius

The mining Lease of sectioned for the period of 30 years.

Water requirement and Source of water - In mining activity no water is used in the process the use of water is only for domestic purpose, the quantity of water required is approx. 10 KLD shall be taken from the nearby bore wells and accumulated rain water in mine pits.

Method of Mining: The method of excavation is open cast and semi mechanized by using drilling and blasting using hand tools such as spades, hammer, crowbar chisel etc. the finish product is transported through tractor trolleys.

Topography-The topography of the applied area is undulating with almost surface having gentle slope towards north direction in north while two mounds in south west direction. The highest elevation of the area is 425 m RL towards southern direction while the lowest elevation is 408 m RL towards north-west direction.

Solid Waste Management Mine waste in the form of lateritic murrum shall be dumped in the lease area as per mining plan.

Power Requirement: Power shall be required for domestic / office use and is being supplied by MPSEB.

Project Schedule and Cost of the project: Total estimated initial cost of the mining project is approx. 35.0 Lac.

Green Belt Development Plan - Assess the green belt development plan in scientific and planned manner on backfilled area, haulage road and along the boundary as a part of an on going programme.

Rehabilitation & Resettlement Plan: The total area of the lease is 16.87 ha sectioned by Govt. of M. P. and the land is undulating and there is no human settlement or agriculture field is exists therefore, no R & R plan is required.

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

- One of the AAQM stations should be placed along the boundary of the site falling towards the forest (if any in 5 Km radius around the site) and also ambient air qualiy has to be monitored along the boundary towards the high-way.

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

- Details of the Corporate Environmental Responsibility and CSR have to be given as a separate chapter along with budgetary provisions.
- Micro level water shade clearly showing the drainage from the site in to the nearby water bodies.
- Permission from competent authority for drawl of water from the village resources to be obtained and furnished.
- Arrangements proposed / made to protect the water bodies from the mine-drainages have to be dealt in detail in the EIA/EMP.
- Summary of EIA / EMP has to be provided separately along with the EMP detailing impacts, impact zone and mitigations has to be furnished in the following format:

AIR Environment

SN	Expected Impact	Impact zones	Management Plan

WATER Environment

SN	Expected Impact	Impact zones	Management Plan

LAND Environment

SN	Expected Impact	Impact zones	Management Plan

NOISE Environment

SN	Expected Impact	Impact zones	Management Plan

Details of Public Hearing Proceedings

SN	Issues raised (details thereby)	Response of Proponent	Comments

- Other points as suggested by the SEAC in TORs' of mining projects shall also be applicable.

10. Case no. 713/2012 Mr. N.C. Sarangi, Chief Manager (Safety & Ecology) M/s Teva API India Ltd., M-34, Saket , New Delhi - 110017 *Expansion of Bulk Drug, Intermediates and API of M/s Tewa API India Ltd. at Plot No. Q-1 to Q-4 Ghirongi Industrial Area, Malanpur, Tehsil – Gohad, Distt. – Bhind (M.P.) Area – 292500 m^2 Capacity: Existing; 2957.22 MTA after Expanssion: 2951 MTA (Proposed Product mix for EC)* For ToR (Change in Product Mix without any change in production capacity)

Env. Consultant – Kadam Environmental Consultant Ahmedabad (Gujrat)

The project pertains to Item No. 5(f) category 'B' of the EIA Notification schedule, as enhancement in production of bulk drug is proposed along with change in product mix in a notified Industrial Area. Hence this project has to be appraised by SEIAA / SEAC 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 presentation and the submission made by the PP and his consultant reveals following:

The industry already has EC, CTE & CTO for the production of 2957.22 MT/annum. It Is now proposing to revise the product mix to cover wider range of products but reduce the annual production capacity to 2,951 TPA of Bulk Drugs, Intermediates and API at plot no Q1 to Q4, Ghirongi Industrial Area, Malanpur, Bhind District, Madhya Pradesh. This request for 'expansion' is meant for widening of the product mix and enhancement of some of the utilities.

Existing Status

It was reported that the Facility has been planned for manufacturing 2951 MT of APIs and API-

intermediates grouped into different categories such as Anti Viral, Anti Hypertensive, Anti Psychotic, Anti Bacterial, Anti Inflammatory, Anti Gout, Diuretic, Vasodilator, Anti Epileptic Seizure, Lipid Lowering Agent, Anti-diabetic and Anti-asthma.

As reported the Facility has valid permits (including environmental permits) for ultimately establishing *8 plants* (MPP-1, MPP-2 and so forth till MPP-8) and related support facilities / utilities. *Currently MPP-1 and MPP-2 are already established and MPP-3 is under construction.* Consents from the MPPCB are available for the existing production.

Plant Features and Production Capacity – It is proposed to produce 2,951 TPA of Bulk Drugs, Intermediates and API. Proposed Manufacturing Unit will focus initially towards the manufacturing of Intermediates of Bulk Drugs & Active Pharmaceutical Ingredients in different therapeutic segments for the growth of generic business.

Environment

Key features with respect to effluents, air emissions and waste disposal in this unit reported are:

- The process effluents are collected taken to ETP for treatment and reuse.
- Floating oil and greases are removed in oil and grease skimmer and sent to TSDF for further disposal.
- The effluent is equalized and neutralized in Equalization tanks (02 nos of 500 KL each). The suspended solids are removed after adding coagulant and flocculants in Clariflocculator. The chemical sludge generated is decanted in horizontal pusher centrifuge and further dried in sludge drying beds. Dried solids are packed and sent to TSDF for disposal.
- The organic impurities (COD & BOD) are removed in the two stage biological treatment. The first stage is Anaerobic and the second stage is Aerobic Bioreactor.
- The dissolved inorganic salts (TDS) are removed in the two stage reverse osmosis (RO) plant. The reject of the RO is concentrated in Multi-effect evaporator and finally dried to solid salt in Agitated Thin Film Dryer (ATFD).
- Water quantity within specifications; produced from above processes is reused for cooling water make, irrigation of green belt etc.
- Stacks are provided with sufficient height for proper dispersion of pollutants / Gaseous emissions from fuel burning, which consist of common pollutants like SO_2, NO_x and SPM.
- The boilers and DG sets are provided with suitable stack height as per CPCB norms to ensure proper dispersion of gases.
- Boilers are designed with air pre-heater for achieving higher fuel efficiency.
- Off gases and VOCs generated in the process equipment during the chemical reactions are discharged to dedicated scrubbing system. These gases are effectively absorbed in scrubbing solutions which are then treated in ETP.
- All the reaction vessels are connected with vapour column, double condensers & sub-coolers in order to recover solvents.
- The hazardous chemicals and volatile organic solvents are carefully handled in a closed system, thereby preventing any discharging of these chemicals into the air.
- The dust generated during powder processing in process area are extracted by DEX (dust extraction & collection) system and finally filtered thorough HEPA filter and collected to avoid any dust emission to environment.
- The company is active member of TSDF site at Pithampur and sents its hazardous wastes from effluent treatment facilities and production processes to TSDF for final disposal as per the authorization.
- The company is doing regular stack monitoring by third party representative.
- The company is maintaining its effluent treatment facility, air pollution control facilities as per conditions of consent and submitting regular returns to MPPCB.
- The company is also member of Emergency Response Cell (ERC).

(S.C. Jain)	**(K.P. Nyati)**	**(A.P. Srivastava)**
Chairman	**Member SEAC**	**Member SEAC**

(V.R. Khare)	**(Dr Mohini Saxena)**	**(R.K. Jain)**
Member SEAC	**Member SEAC**	**Member Secretary**

The company proposes to have similar standards for the proposed change of product mix at the existing unit at Malanpur.

Proposed Development of the Facility

The Malanpur Facility *will be expanded, by 2017:*

1. With the following additional production units: MPP-4, MPP-5, MPP-6, MPP-7, MPP-8
2. Following additional utilities / support services are proposed:
   Hydrogenation facility, Solvent Recovery Plant, Central Utility Block, Electrical sub-station, Fire Station, Ware houses (flammable, Non-flammable, finished goods store, FO-HSD tank farm, Gas cylinder and water sensitive material shed.), Effluent Treatment Plant, Hazardous waste store, Bore well and water distribution system, Electricity supply and distribution system, Power Back-up, Vacuum generation and distribution system, Nitrogen generation and distribution system, Compressed air supply and distribution system, Breathing air generation and quality monitoring and distribution system etc.

The total estimated cost of the project is INR 550 Crores. The total Capital Expenditure for Pollution Control Measures is INR 1050 lacs. It is expected that recurring costs on environmental matters would be INR 578.25 lacs.

No Increase in Capacity but Request for Flexibility & Revalidation for Remaining Plants in Production Capacities - PP submitted that the unit at Malanpur Facility started production in 2010 with a total capacity of 2957.22 MTPA. The Environmental Clearance (EC) for the Facility stipulated specific production limits for each API / API-Intermediate. However, market conditions dictate that each product be manufactured flexibly based on seasonal and other demands. Consequently the limits given in the EC became a constraint. Hence it is imperative that the EC be revised to allow for suitable flexibility in manufacturing and still accord full protection to the environment. Because of proposed expansion of new molecules, environment consequence and impacts would be quite different than the existing molecules and same will be incorporated by Qualitative Risk Analysis in EIA study.

Location - The total plot area of the unit is about 292500 m^2.

Locations of the proposed premises

Latitude	Longitude	Elevation above mean Sea Level
N 26° 22' 2.90" to N 26° 22' 32.5"	E 78° 16' 34.80" to E 78° 16' 46.60"	171 to 165 m

Existing product mix (as per EC, Consent to Esatablish & Operate) (MT / Annum)	**Proposed Product mix for EC (MT / Annum)**
Famciclovir, Irbesartan, Olmesartan Telmisartan, Trityl Valsartan, Trityl Irbesartan, Trity Losartan, Olanzapine Trimethoprim, 7-Ethyl Tryptophol (7-ET), Narproxen- DL3-amino-4, Carboxamido Pyrazole (ACP), Furosemide, 2,4-Dichloro-5-ulfonamide benzoic acid (DSBA), Pentoxifylline 1,1 Cyclohexane Diacetic acid (CDA) Fluvadial, **Total no. of products- 17**	Famciclovir, Cl-AP, NFOS, RLT-9, Raltegravir potassium, Aliskiren Hemifumarate (Inermediate & API), Hydrochlorothiazide, Losartan Potassium TRB Spain, Trityl Candesartan Cilexetil, Valsartan Irbesartan, Olmesartan, Trityl Olmesartan, Telmisartan, Trityl Valsartan, Trityl Irbesartan Trity Losartan, Carbamazapine, DBTP 2HCl Desvenlafaxine Base, Duloxetine.HCl (intermediate & API), Milnacipran amide, Quetiapine Fumarate, Venlafaxine free base, SRT HCl racemate, SRT mandelate, SRT.HCl, Desvenlafaxine fumarate, Olanzapine, Clarithromycin (intermediate & API), Levofloxacin, Trimethoprim, Eleptriptan HBr, Eletriptan PTSA, Flupirtine Maleate, Phenyl piracetam, 7-Ethyl Tryptophol (7-ET), Narproxen- DL, 3-amino-4 Carboxamido Pyrazole (ACP), Furosemide, 2,4-Dichloro-5-Sulfonamide benzoic acid (DSBA), Clopidrogel Bisulfate (intermediate & API), CLD-CSA, Pentoxifylline, CMH Diacid, Pregablin crude & API, RML-12, 1,1 Cyclohexane Diacetic acid (CDA), 19-TBPO (TB-19), Atorva Ca and Intermediate' Diketone, TBIN, PAE, EZE-06 Intermediate & API, Ezetamibe, Fluvastatin Sodium, TB-17, TBRE, Fluvadial, Pioglitazone.HCl, PIE, Sitagliptin Phosphate, Sitagliptin sulphate, Sitagliptin maleate, Montelukast Sodium

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

	Total no. of products- 66
Existing Produ. Cap.- 2951 MTPA	**Proposed Production Capacity- 2951 MTPA**

Size of Operation

The existing approved production capacity of the manufacturing of Bulk drug, API and its intermediates is 2957.22 MPPA. The revised production capacity after the proposed expansion would be 2951 MTPA. With present product mix: Nos of products 17 nos and revised product mix: Nos of products 66 nos.

Salient Features of Technology

New manufacturing unit will focus initially towards the manufacturing of Bulk Drugs, Intermediates and Active Pharmaceutical Ingredients in different therapeutic segments for the growth of generic business.

- The technology used is a clean and closed reactor technology, which minimizes reactor opening thereby reducing the potential exposure to the operator and release of volatile emissions to the environment.
- The raw chemicals and solvents are carefully handled in a closed system, thereby preventing any accidental spillage / discharging of these chemicals into atmosphere. The raw materials are charged into the reactor through specially designed Powder Transfer System (PTS) with vacuum and nitrogen cycles.
- All the reaction vessels are connected with vapour column, double condensers & sub-coolers in order to recover solvents.
- Off gases and VOCs generated in the process equipment during the chemical reactions are discharged to dedicated scrubbing system. These gases are effectively absorbed in scrubbing solutions which are then treated in ETP.
- The dust generated during powder processing in process area are extracted by DEX (dust extraction & collection) system and finally filtered thorough HEPA filter and collected to avoid any dust emission to environment.

Raw Materials

The raw materials includes key raw material (starting raw materials), various extraction solvents like methanol, ethanol, toluene etc, catalyst like Pd carbon, raney nickel etc. These will be purchased from the local markets. About 200 various types of chemicals shall be used in the process.

Process Description

The manufacturing of bulk drugs, APIs and intermediates involves several unit operations and processes. It involves several stages of reactions in which different functional groups are attached

to the starting key raw materials. The product formed after each stages of reaction are called as intermediates. In most of the cases the downstream processing of the reaction mixture such as filtration, distillation etc. is also conducted prior to the next reaction step. The final reaction mixture goes through multiple steps of downstream processing to produce the desired active product in solid form. These steps include filtration, distillation, precipitation, crystallization, drying, milling and final packing.

Equipment Washing

Washing is carried out for product change over cleaning and batch changeover cleaning. Reactors and other equipment are washed either with water, solvents and specialty detergent. The washing liquid goes to ETP for treatment.

Effluent Treatment Plant

Effluent Treatment plant is given in Annexure 6.

Vents

All the reaction vessels are connected with vapour column, double condensers & sub-coolers in order to recover solvents.

Off gases and VOCs generated in the process equipment during the chemical reactions are discharged to dedicated scrubbing system. These gases are effectively absorbed in scrubbing solutions which are then treated in ETP.

Availability of water its source, energy/power requirement and source should be given

Water is available from IIDC, Gwalior and existing Borewell at site. After proposed expansion, same practice will be followed.

Source of Water Supply

S.No.	Water supply source	Existing (Nos)	Additional (Nos)	Total (Nos)
1	AKVN Borewell	1	0	1
2	Borewell	2	2	4

Table : Electricity Load

Sr. no.	Description	Existing	Additional Proposed	Total	Unit
1	Electricity connected load	3800	11300	15100	KW
	Electrical connection	2750	8250	11000	KVA

The power is made available from IIDC, Gwalior.

Water consumption - Existing Water requirement of the project will be **1000 KLD.** After proposed expansion in product mix, total water consumption will be **1520 KLD.**

Fuel - RLNG and furnace oil will be used as fuel for generation of steam for steam generator. Consumption of steam on an average will only be 5TPH. Gas consumption will depend on the calorific value of the RLNG. Natural gas requirement will be 1, 90,715 KL/month.

Quantity of waste water to be generated - Total wastewater generation will be **640 KLD.** It will be treated in effluent treatment plant.

Hazardous Waste Generation and disposal Details – about 09 types of hazardous wastes are expected from the industrial activities in this project to the tune of about 12000 MT per annum [From existing facility- 4323.085 MT/Year and From proposed expansion- 7055.4 MT/Year]

Land Form, Land Use and Land ownership

The total plot area of the existing unit is 292500 m^2. As the project is located in notified industrial estate, the land-use of the project site is industrial. The plot has been allotted by IIDC, Gwalior on

lease.

Topography (along with map)

The entire Bhind District lies in the Chambal valley. The Hills are only a few, small and isolated, mostly in the south west. The only divisions of topography are offered by the network of rivers with deep channels and steep bank. The topology of Bhind is the topography of the valley plains. The area surrounding to the proposed project is a plane ground without any ups and downs.**Distance of Project Site from Sensitive Areas**

Area	Distance in km	Direction
Mawai Protected Forest	3.02	E
Shanichara Protected Forest	9.0	NE

Distance of Project site from Water Bodies

Water body	Source	Direction	Distance in km
Sindhwari Village	Pond	NE	0.34
Nr Badvari Village	Stream	W	2.42
Malanpur Village	Pond	SE	1.25
Navgaon Village	Pond	N	2.58
Lahchura Village	Morar River	E	4.84
Gurikha Village	Irrigation Canal	NE	2.61
Tilori Village	Pond	S	1.26
Nr Mawai Village	Dam	SW	3.02

Green area development - Proposed green cover is 35% of total plot area.

Drinking water management (source & supply of water)

IIDC, Gwalior water facilities and Borewell at site will be used

Sewage system- ETP has been designed to treat industrial and sewage in the same plant.

Solid waste management - The solid wastes generated from the plant operations will be disposed off in nearby Waste Management landfill facility, Ramky at Pitampur located at Indore.

Power requirement & supply/ source - The Madhya Pradesh electricity Board supplies the power in the area. Power supply from MPEB, Gwalior: 15100 KW total electricity load will be required.

Standby Power: D.G.Sets: Total – 11 nos [Existing-02 nos 1000 KVA each and Proposed 9 nos, (8 nos 1250 KVA each & one of 1000 KVA)]

Expenditure on Environment management Plan

S.N	Head	Appro. Capital cost for Proposed Expansion (Rs. In lac)	Approximate recurring cost per annum for Proposed Expansion (Rs. in lacs)
1	Air pollution control & Noise Pollution Monitoring	174	20
2	Water Pollution control	800	383
3	Solid and hazardous waste management	20	145
4	Environment monitoring and management	15	5
5	Occupational Health	10	20
6	Green area & Rainwater Harvesting	30	5
Total		**1050**	**578**

After deliberations committee has approved the proposed TOR with inclusion of following points

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary

in the TOR to carry out EIA / EMP studies:

- Ambient air quality has to be monitored along the boundary towards the high-way.
- Details of the Corporate Environmental Responsibility and CSR have to be given as a separate chapter along with budgetary provisions.
- Micro level water shade clearly showing the drainage from the site in to the nearby water bodies.
- Permission from competent authority for ground-water abstraction has to be obtained and furnished.
- Arrangements proposed / made to protect the water bodies from the mine-drainages have to be dealt in detail in the EIA/EMP.
- Summary of EIA / EMP has to be provided separately along with the EMP detailing impacts, impact zone and mitigations has to be furnished in the following format:

AIR Environment

SN	Expected Impact	Impact zones	Management Plan

WATER Environment

SN	Expected Impact	Impact zones	Management Plan

LAND Environment

SN	Expected Impact	Impact zones	Management Plan

NOISE Environment

SN	Expected Impact	Impact zones	Management Plan

Details of Public Hearing Proceedings

SN	Issues raised (details thereby)	Response of Proponent	Comments

- Other points as suggested by the SEAC in TORs' of similar projects shall also be applicable.

11. Case no. 721/2012 Mr. Ashok Kashyap (Sr.General Manager) M/s Khaneja Properties Pvt. Ltd., 56-58, Community Centre, East of Kailash, New Delhi - 110065 - *Commercial Complex Project at Khasra No. 538, 539, 540, 541, 542, 543/2,547 Bairagarh Chichli Kolar Road, Bhopal (M.P.) Plot area- 35,100 Sq.m., Built – up area - 83,651 Sq.m.* ***(Building Construction project)***

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

The project pertains to Item No. 8(a) category 'B' of the EIA Notification schedule, as total built-up area proposed in the project is more than 20,000 m^2. Hence this project has to be appraised by SEIAA / SEAC for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for appraisal.

This is a proposed Commercial project located at Khasra No. 538, 539, 540, 541, 542, 543/2, 547 at Bairagadh Chichli Kolar Road Bhopal, Madhya Pradesh. The nearest railway station is Habibganj at a distance of approx. 11 km. Bhopal Airport is about 18 Km away. Bhopal Main City is about 8 km from the proposed project site. Deliberations revealed following details on the salient features of the project:

SN	PARTICULARS	DESCRIPTION

1.	Plot Area	35,100 m2
2.	Area under Road	1,582.70 m2
3.	Net Plot Area	33,517.30 m2
4.	Proposed Built up area	83,651 m2
5.	Basement Area (2 Level)	40,127.00 m2
6.	Height of the proposed building	28 m
7.	Green Area (35.5%)	12,460.50 m2
8.	Project Cost	120 Crores
9.	Water Requirement	607 KLD (Potable demand = 411 KLD)
10.	Source of water	Shall be supplied by the Municipal Authority Kolar.
11.	Electricity Requirement and Source	4715 KVA from MPSEB
12.	Power back-up	4 No. D.G sets (3 x 2000 KVA and 1 x 1000 KVA capacity)
13.	Floating Population (visitors + Staff)	24,654 Persons
14.	Solid waste Generation	3,835 kg/day
15.	Parking facilities:	Parking will be proved in 2 basements. 833 ECS / 925 ECS (including visitors and disabled parking)

Earlier the project was discussed in detail in the 71st meeting of SEAC dated 13/12/2010 followed by the 76th SEAC meeting dated 07/01/2011 as case no 603/2010. The project was recommended by the SEAC for grant of prior EC based on the submissions made by the PP. However, SEIAA closed the project as the documents submitted by the PP were not in the name of the applicant (i.e. M/S SVS Buildcon Pvt.Ltd.). The same project has been submitted by the original proponent i.e. M/s Khaneja Properties Pvt. Ltd., 56-58, Community Centre, East of Kailash, New Delhi. The Application Form-1, 1(A) and other relevant documents were forwarded to SEAC by the SEIAA for appraisal. PP and his consultant presented the salient features of the project. Deliberations revealed following details on the salient features of the project:

SN	PARTICULARS	DESCRIPTION
1.	Plot Area	35,100 m2
2.	Area under Road	1,582.70 m2
3.	Net Plot Area	33,517.30 m2
4.	Proposed Built up area	83,651 m2
5.	Basement Area (2 Level)	40,127.00 m2
6.	Height of the proposed building	28 m
7.	Green Area (35.5%)	12,460.50 m2
8.	Project Cost	120 Crores
9.	Water Requirement	607 KLD (Potable demand = 411 KLD)
10.	Source of water	Shall be supplied by the Municipal Authority Kolar.

(S.C. Jain) **Chairman**

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

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

(V.R. Khare) **Member SEAC**

(Dr Mohini Saxena) **Member SEAC**

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

11.	Electricity Requirement & Source	4715 KVA from MPSEB
12.	Power back-up	4 No. D.G sets (3 x 2000 KVA and 1 x 1000 KVA capacity)
13.	Floating Population (visitors + Staff)	24,654 Persons
14.	Solid waste Generation	3,835 kg/day
15.	Parking facilities:	Parking will be proved in 2 basements. 833 ECS / 925 ECS (including visitors and disabled parking)

The proponent has already submitted satisfactory response to the queries raised by the committee. During the meeting an undertaking was submitted by the PP stating that no change in the project has been made accept the name of applicant. PP has also accepted that only preliminary works have been undertaken at site.

After deliberations and submissions made by the PP, the committee has recommended the case for grant of prior EC subject to the following special conditions:

a. PP shall promote schemes for conservation of water in such a way that the fresh water demand shall not go beyond 411 KLD.
b. PP shall use surface water supplied by the municipal corporation in the project and no abstraction of ground water shall be done with out obtaining the permission from CGWA.
c. The construction site shall be provided with adequately barricades of at least 3 m height on its periphery with adequate signage.
d. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
e. All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
f. Disposal of debris including the excavated material during construction phase shall not create adverse effect on neighbouring communities and disposed off taking the precautions for general safety and health aspects only at the approved sites with the approval of the competent authority.
g. Diesel generator sets proposed as back up power shall be of enclosed type and conform to prescribed standards under EPA rules. All exhausts shall be 5.5 m above roof top. Necessary acoustic enclosures shall be provided at diesel generator set to mitigate the impact of noise.
h. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality should be closely monitored during construction phase. Ready made mix concrete should be used as far as possible.
i. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
j. Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
k. Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
l. Environment Management Cell shall be formed, which will supervise and monitor the Environment related aspects of the project during construction and operational phases in addition to observance of Madhya Pradesh Building and other Construction Workers Rules.
m. The applicant shall install and operate their own sewage treatment plant (STP) as per the

details submitted to the SEAC. The treated sewage shall be reused /recycled to the extent possible. Discharge of the treated sewage from the STP shall conform to the norms specified by M.P. Pollution Control Board after obtaining necessary permission.

n. Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
o. Rain water harvesting for roof run-off and surface run-off, as per the plan submitted shall be implemented. Before recharging the surface run off, pre- treatment must be done to remove suspended matter.
p. The Municipal Solid Waste shall be properly collected and segregated at source. The recyclable material shall be sold to proper vendor and other garbage shall be disposed to the sanitary landfill site of Municipal Corporation.
q. The applicant shall install the electric utilities / devices, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
r. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
s. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Necessary signage including continuous display of status of parking availability at entry, exit and all other appropriate places shall be provided which should have appropriate size of letters and shall be visible from the at least 50 meter distance from the adjacent road. No public space shall be used or blocked for the parking and the trained staff shall be deployed to guide the visitors for parking and helping the senior citizens and physically challenged people.
t. Necessary emergency lighting system along with emergency power back up system shall be provided. In addition, emergency public address system arrangement and signage for emergency exit route shall be provided on each floor.
u. Necessary auto glow signage at all appropriate places shall be provided to guide the people towards exits and assembly points during the unforeseen emergency and eventuality conditions.
v. All the statutory clearances such as the approvals for storage of diesel from Chief controller of Explosives, Fire Department, Civil Aviation Department, if applicable, shall be obtained as applicable by the applicants from the competent authorities.
w. Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
x. Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning in accordance to the ECBC guidelines.
y. Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project.
z. Environment Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.

Discussion on the Query reply and other issues

1. Case No. 662/2012 SEAC Qry. 97th dt. 14/06/2012

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.)*

The project was dealt in the 97th meeting of SEAC in detail. After deliberations committee has asked the PP to submit following information with supporting documents:

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

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.
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.

Response to the above queries was submitted by the PP and the same was examined by the committee in his meeting. The EIA, EMP and other submissions made by the proponent were found to be satisfactory and acceptable so as to grant prior EC to the project. Hence, based on the submissions made by the PP committee recommend s the project for grant of prior Environmental Clearance, subject to the following special conditions:

1. Silica generated from the process (about 0.9 TPD) shall not be thrown out and shall be used as filler in the fertilizer. Appropriate log book shall be maintained for the purpose.
2. Fugitive Dust will be generated during Rock Phosphate and Finished Product Handling & Vehicular movement. To control the air pollution following measures shall be adapted -
    - Cyclone separators and bag filters in Grinding section
    - Ventury, Cyclone separator and Scrubbers in Mixing section of SSP
    - Dust collecting cyclones 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 should be close to the reactors to minimize the fugitive dust problem.
    - Mechanical water sprinklers have to be provided to spray water all around the stockpiles to suppress the dust.
3. Zero discharge of effluents has to be maintained through re-cycling of all the liquid wastes.
4. The domestic waste water generated shall be sent to septic tank fallowed by soak pit.

2. Case No. 651/2011 SEAC Qry. 86th dt. 14/12/2011

M/s Laxmi Narayan Patidar & Jeetmal Patidar (IBD Royal City) 74, Zone-II,M.P. Nagar, Bhopal (M.P.) - Project: Laxmi Narayan Patidar & jeetmal Patidar (IBD Royal City) at Misrod Part of 105/1 and 105/2,Viillage: Misrod,P H No. 42,Tehsil: Huzur,Distt.- Bhopal (M.P.) Total Land Area – 3.031 Hact, Total Built Up Area – 27662.16 sq mt.for Residential Multistory Building - **Env. Consultant: Creative Enviro Services Bhopal.**

The project was dealt in detail in the SEAC 86th meeting dated 14/12/2011, whereby the PP was asked to submit response on the following queries:

1. Permission from CGWA for abstraction of requisite quantity of water.
2. Notarized copy of Land diversion orders.
3. Commitment from Bhopal Municipal Corporation for allowing the disposal of MSW in the trenching facilities of the corporation and a commitment from the PP in this regard.
4. Financial viability plan in context to environmental safe guard monitoring including the operation and maintenance of STP, disposal of MSW etc. The

plan should also contain provision of Corpus Fund.

5. MSW collection bins are proposed to be placed at different points in the premises; construction of pucca platform has to be ensured for keeping the bins, proposal to be submitted.

Response to the above queries was submitted by the PP and the same was examined by the committee in his meeting. The EMP and other submissions made by the proponent were found to be satisfactory and acceptable so as to grant prior EC to the project. Hence, based on the submissions made by the PP committee recommend s the project for grant of prior Environmental Clearance, subject to the following special conditions:

i. A buffer zone of 30 m is already in place as 'no activity area' an additional 30 meter strip has to be reserved for green area development with 'no construction' with in the plot area. Slope of this strip has to be maintained towards the project such that no water is drained into the river from the project site.
ii. STP has to be provided towards 'Northern' boundary of the plot at far most point from the river side.
iii. Back of the river has to be developed properly through land-scaping and stepped up towards the project.
iv. No drain i.e. storm water or otherwise should be towards the river.
v. Clear 30 meters set-back from the edge of the land adjoining the river should be kept open.

3. Case No. 651/2011 SEAC Qry. 93rd dt. 10/04/2012

The project was discussed in detail in the 93rd meeting of SEAC dated 10/04/2012, whereby the PP was asked to submit response on the following queries:

- Exact distance of railway line from the project boundary to be furnished with GPS co-ordinates.
- Catchment area of the proposed site with contours map of the region showing drainage pattern of the area, distance from the water bodies etc.
- Present air and surface/ground water quality of the area to be reported.
- Complete plan for door to door collection, location of collection points, proposal for pucca platform for MSW storage area and a notarized copy of agreement with Municipal Corporation for disposal of MSW at designated site.
- Permission / commitment from competent authority for supply of water for the project to be furnished.
- R.O.W of the approach road with distance of project boundary from the centre of the main road to be reported.
- The existing tree-plants are proposed to be transplanted – complete plan in this regard including number of trees, location and area proposed for transplantation etc. to be submitted.
- The transplantation plan should include the survival rate with plan for compensatory plantation for the lost trees.
- Details with calculation for the STP proposed for the project.
- Commitment for compliances of ECBC guidelines with highlights of green building concept being adapted in the project.
- Proposal for dual plumbing (grey-water / fresh water) with built-in irrigation system for green areas to be provided.
- Notarized copy of High-rise building permission from competent authority.
- Proposal for compliances of the MoEF O.M. No. 21-270/2008-IA.III dated 07/02/2012 regarding width of road and distance from fire station has to be

submitted.

- A revised conceptual plan incorporating suggested changes is to be submitte

The response to the queries was submitted by the PP and the same was placed before the committee for perusal and discussion. After examining the response submitted by the PP it was found that PP is still required to submit clarification with supporting documents on the following points:

- Complete plan for door to door collection, location of collection points and proposal for pucca platform of appropriate dimensions so as to store the MSW generated in two days.
- Detailed design of STP with flow diagram & dimensions/capacity of each unit of the STP.
- Distance of fire-brigade station duly verified from competent authority to be furnished.
- Permission water supply from the competent authority.
- Source of water for the project during construction phase with supporting documents to be furnished.

Discussion on the Query reply and other issues

1. Case No. 662/2012 SEAC Qry. 97th dt. 14/06/2012

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.)*

The project was dealt in the 97th meeting of SEAC in detail. 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.
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.

Response to the above queries was submitted by the PP and the same was examined by the committee in his meeting. The EIA, EMP and other submissions made by the proponent were found to be satisfactory and acceptable so as to grant prior EC to the project. Hence, based on the submissions made by the PP committee recommend s the project for grant of prior Environmental Clearance, subject to the following special conditions:

i) Silica generated from the process (about 0.9 TPD) shall not be thrown out and shall be used as filler in the fertilizer. Appropriate log book shall be maintained for the purpose.

ii) Fugitive Dust will be generated during Rock Phosphate and Finished Product Handling & Vehicular movement. To control the air pollution following measures shall be adapted

- Cyclone separators and bag filters in Grinding section
- Ventury, Cyclone separator and Scrubbers in Mixing section of SSP
- Dust collecting cyclones 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 should be close to the reactors to minimize the fugitive dust problem.
- Mechanical water sprinklers have to be provided to spray water all around the

stockpiles to suppress the dust.

iii) Zero discharge of effluents has to be maintained through re-cycling of all the liquid wastes.

iv) The domestic waste water generated shall be sent to septic tank fallowed by soak pit.

2. Case No. 651/2011 SEAC Qry. 86th dt. 14/12/2011

M/s Laxmi Narayan Patidar & Jeetmal Patidar (IBD Royal City) 74, Zone-II,M.P. Nagar, Bhopal (M.P.) - Project: Laxmi Narayan Patidar & jeetmal Patidar (IBD Royal City) at Misrod Part of 105/1 and 105/2,Viillage: Misrod,P H No. 42,Tehsil: Huzur,Distt.-Bhopal (M.P.) Total Land Area – 3.031 Hact, Total Built Up Area – 27662.16 sq mt.for Residential Multistory Building - **Env. Consultant: Creative Enviro Services Bhopal.**

The project was dealt in detail in the SEAC 86th meeting dated 14/12/2011, whereby the PP was asked to submit response on the following queries:

1. Permission from CGWA for abstraction of requisite quantity of water.
2. Notarized copy of Land diversion orders.
3. Commitment from Bhopal Municipal Corporation for allowing the disposal of MSW in the trenching facilities of the corporation and a commitment from the PP in this regard.
4. Financial viability plan in context to environmental safe guard monitoring including the operation and maintenance of STP, disposal of MSW etc. The plan should also contain provision of Corpus Fund.
5. MSW collection bins are proposed to be placed at different points in the premises; construction of pucca platform has to be ensured for keeping the bins, proposal to be submitted.

Response to the above queries was submitted by the PP and the same was examined by the committee in his meeting. The EMP and other submissions made by the proponent were found to be satisfactory and acceptable so as to grant prior EC to the project. Hence, based on the submissions made by the PP committee recommends the project for grant of prior Environmental Clearance, subject to the following special conditions:

1. A buffer zone of 30 m is already in place as 'no activity area' an additional 30 meter strip has to be reserved for green area development with 'no construction' with in the plot area. Slope of this strip has to be maintained towards the project such that no water is drained into the river from the project site.
2. STP has to be provided towards 'Northern' boundary of the plot at far most point from the river side.
3. Back of the river has to be developed properly through land-scaping and stepped up towards the project.
4. No drain i.e. storm water or otherwise should be towards the river.
5. Clear 30 meters set-back from the edge of the land adjoining the river should be kept open.

3. Case no. 678/2012 SEAC Qry. 93rd dt. 10/04/2012

M/s Keshar Infrastructures (Shri Virendra Kumar Gangwal & Others) Gangwal Mills Coupound, Near Phalka Bazar,Lashkar, Gwalior – (M.P.) 474 001 *Keshar Infrastructures, Keshar Bagh, Race Course Road, Gwalior, Survey No. 2-12,16,17, 18/1, 18/2, 19, 20,21, 22, 23/2, 24, 25, 26, 27, 364/8 at Village – Thatipur, Tehsil – Gwalior, Distt. – Gwalior (M.P.) Total Land Area – 19970 sq. mt. , Total Built Up Area – 51444.46 sq.mt.* For Building Construction **Env. Consultant – Creative Enviro-services Bhopal.**

The project was discussed in detail in the 93rd meeting of SEAC dated 10/04/2012, whereby the PP was asked to submit response on the following queries:

- Exact distance of railway line from the project boundary to be furnished with GPS co-ordinates.

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

- Catchment area of the proposed site with contours map of the region showing drainage pattern of the area, distance from the water bodies etc.
- Present air and surface/ground water quality of the area to be reported.
- Complete plan for door to door collection, location of collection points, proposal for pucca platform for MSW storage area and a notarized copy of agreement with Municipal Corporation for disposal of MSW at designated site.
- Permission / commitment from competent authority for supply of water for the project to be furnished.
- R.O.W of the approach road with distance of project boundary from the centre of the main road to be reported.
- The existing tree-plants are proposed to be transplanted – complete plan in this regard including number of trees, location and area proposed for transplantation etc. to be submitted.
- The transplantation plan should include the survival rate with plan for compensatory plantation for the lost trees.
- Details with calculation for the STP proposed for the project.
- Commitment for compliances of ECBC guidelines with highlights of green building concept being adapted in the project.
- Proposal for dual plumbing (grey-water / fresh water) with built-in irrigation system for green areas to be provided.
- Notarized copy of High-rise building permission from competent authority.
- Proposal for compliances of the MoEF O.M. No. 21-270/2008-IA.III dated 07/02/2012 regarding width of road and distance from fire station has to be submitted.
- A revised conceptual plan incorporating suggested changes is to be submitted.

The response to the queries was submitted by the PP and the same was placed before the committee for perusal and discussion. After examining the response submitted by the PP it was found that PP is still required to submit clarification with supporting documents on the following points:

- Complete plan for door to door collection, location of collection points and proposal for pucca platform of appropriate dimensions so as to store the MSW generated in two days.
- Detailed design of STP with flow diagram & dimensions/capacity of each unit of the STP.
- Distance of fire-brigade station duly verified from competent authority to be furnished.
- Permission water supply from the competent authority.
- Source of water for the project during construction phase with supporting documents to be furnished.

Discussion on projects reverted from SEIAA:

1. Case No. 679/2012 SEIAA Qry. 95th dt. 04/06/2012

Shri Pawan Agarwal, Director M/s Madhyabharat Phosphate (P) Ltd., E-1/50, Arera Colony - Bhopal, Distt. – Bhopal (M.P.) – 462016 *Manufacturing of Single Super Phosphate from powder form to granular without changing in production capacity i.e. 1,65,000 MTPA (Change in product form) at Meghnagar Industrial Area "A" , Village – Meghnagar, Tehsil .- Meghnagar, Distt.- Jhabua (M.P.)* For –amendment in EC.

[MoEF Delhi EC issued dt. 25/08/08] [Env. Consultant – Creative Enviro Services Bhopal]

This is an existing unit producing SSP powder to the tune of 1, 65,000 MTPA. Prior EC for the project was granted by MoEF. It was reported by the PP that in view of the market demand, the industry has planned to change the product from powder-SSP to granulated-SSP. Originally the application was submitted to MoEF requesting desired change in the issued prior EC, later the case was referred to SEIAA for consideration. Case was placed before the SEAC for comments recommendations. SEAC recommended that the project does not requires any EIA or modified EMP as no change in environmental impacts is expected from the proposed change in product mix.

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

However, SEIAA did not accept the recommendations of the SEAC and revert the case to SEAC for issue of TOR to carry out EIA / EMP.

The project was discussed in depth in the 93rd SEAC meeting dated 10/04/2012. Again the project was placed before the Expert's Committee after examining all the aspects it was concluded by the expert's committee that:

- The project proposal pertains to change in the form of product i.e. from powdered SSP to granulated SSP.
- No change in the production capacity has been proposed.
- No major change in the technology has been proposed.
- No change in area / locations of various activities is proposed.
- PP is already holding valid Prior EC for production of powdered SSP issued from MoEF vide letter dated 25/08/2008.
- No change in waste water generation is envisaged in the proposed project.
- There is slight increase in water consumption in view of granulation of powdered SSP, which shall be supplied by the industries deptt.
- The ultimate environmental pollution load (for which mitigations have been adopted / proposed) is not expected to change due to the proposed change in the product form.
- No technical or any other reason has been specified by the SEIAA to contradict the facts placed by the expert's committee.

Owing to the above facts committee is of the opinion that the EC may be modified for 'production of Granulated Single Super Phosphate (GSSP) to the tune of 1,65,000 MTPA' subject to the special conditions suggested by the committee earlier in the referred meeting.

Exemption / Delisting of projects as per the letters of SEIAA:

Files and related documents of the following projects were decided to send back to the SEIAA as per the request of SEIAA for de-listing:

SN	Case No	SEIAA letter reference	Reason for delisting
1.	04/2008	LN 460 dt 26/06/12	Bio-mass based Power plants up to 15 MW using auxiliary fuel such as coal etc up to 15% have been exempted as per Amended EIA Notification dated 01/12/09.
2.	36/2008	LN 466 dt 25/06/12	--------,,----------
3.	115/2008	LN 454 dt 25/06/12	--------,,----------
4.	172/2008	LN 464 dt 25/06/12	--------,,----------
5.	173/2008	LN 440 dt 25/06/12	--------,,----------
6.	259/2009	LN 468 dt 25/06/12	--------,,----------
7.	260/2008	LN 462 dt 25/06/12	--------,,----------
8.	261/2008	LN 453 dt 25/06/12	--------,,----------
9.	296/2008	LN 456 dt 25/06/12	--------,,----------
10.	424/2009	LN 447 dt 25/06/12	--------,,----------
11.	487/2009	LN 532 dt 16/07/12	Validity of TOR has expired on 19/05/12
12.	514/2010	LN 556 dt 19/07/12	Validity of TOR has expired on 19/05/12
13.	551/2010	LN 536 dt 16/07/12	Validity of TOR has expired on 23/06/12
14.	552/2010	LN 511 dt 16/07/12	Validity of TOR has expired on 23/06/12
15.	560/2010	LN 709 dt 04/08/12	Validity of TOR has expired on 19/07/12
16.	562/2010	LN 708 dt 04/08/12	Validity of TOR has expired on 19/05/12

**** Meeting ended with thanks to the chair and the members. ****

(S.C. Jain)
Chairman

(K.P. Nyati)
Member SEAC

(A.P. Srivastava)
Member SEAC

(V.R. Khare)
Member SEAC

(Dr Mohini Saxena)
Member SEAC

(R.K. Jain)
Member Secretary