The meeting conducted on 10th April 2012 was presided by Shri S.C. Jain, Chairman. Following members attended the meeting-

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

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

1. **Consideration of the Projects**

   11 cases were invited to make presentation before the SEAC.

2. **Other issues discussed during the meeting –** (1) Query replies received from various project proponents were also discussed in the meeting. (2) The next month's meetings were decided for 7th & 8th May 2012.

3. **Field visit:** In continuation to the decision taken in the 92nd meeting dated 09/04/2012 the field visit to see the sites of River valley projects proposed in Panna District pertaining to case no. 686/2012, 687/2012 & 688/2012, was planned during 04/05/2012 to 06/05/2012.

## Deliberations:

**1. Case no. 672/2012 - Shri Ram Dulare Sondhiya, R/o Nai Basti, P.O. & Distt. Katni (M.P.) 483501 -** *Bichhiya Laterite & Fire Clay Deposit KhasraNo. P 409 at Village – Bichhiya, Tehsil – Murwara, Distt. – Katni (M.P.) Lease area – 9. 084 ha. Capacity – 75,000 TPA* **For –ToR**

**[Env. Consultant – Grass Roots Research And Creation India (P) Ltd. NABET-QCI Accredited as per Certificate No: NABET/EIA/ 1013/052 .]**

This being a mining project with lease area between 50 ha to 5 ha is listed at S.N. 1(a) of schedule under 'B' Category of EIA Notification, 2006 and is to be appraised by SEAC **The case has been forwarded by SEIAA to SEAC to determine the TOR to carry out EIA / EMP for the project.** It was reported that t**his is a new mine yet to begin operation. Opencast other than fully mechanized method of mining will be adopted in the lease area without drilling and blasting. The development and production will be done side by side .The OB and ore will be loaded manually on dumpers or trucks. The Mining plan was approved vide letter No.MP/Katni/Laterite/MPLN/G-46/03-04 dated 25.02.2004 and the Lease Period is from 15.07.2004 to 14.07.2024. Mineral is intended for use in Refractory as well as Cement plants. PP and consultant presented the case before the committee. The submissions and the presentation revealed following:**

| | |
|---|---|
| **Location** | **Village : Bichhia , Tehsil : Murwara District : Katni, State : Madhya Pradesh** |
| **Latitude** | **23º 44' 43" to 23º 44' 58" N** |
| **Longitude** | **80º 28' 13" to 80º 28' 27" E** |
| **Total Area** | **9.084 ha** |

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

| | |
|---|---|
| **Type of Lease Area / ownership** | **Govt. Revenue Land** |
| **Screening Category** | **'B'** 1(a) |
| **Cost of the Project** | **Rs.1.0 crores.** |
| **Mining Plan Approval** | **The Mining plan was approved vide letter No. MP/Katni/Laterite/MPLN/G-46/03-04 dated 25.02.2004.** |
| **Ultimate depth of Mining level** | **8 m deep mine pits from existing surface** |
| **Ground water level** | **15 m BGL** |

**Sensitive features in 10 Km radius around the site -**

| | | |
|---|---|---|
| Bijhota RF | : | 9.5 km South |
| Maghgawan RF | : | 6.5 km North |
| Manpur PF | : | 6.5 km ENE |
| Ponri PF | : | 5.5 Km in NE |
| Bijauri RF | : | 6.5 km in NE, |
| Gopalpur RF | : | 10 km ENE |
| Sumrar Tank | : | 3.5 km SW |
| Jarangar Nadi | : | 1.0 km E |

**Land use planning proposed:**

| S.N | Proposed land use | Plan period | Lease Period |
|---|---|---|---|
| 1 | Total area excavated (broken) | 4.0 | 8.10 |
| 2 | Area fully mined out (out of 1) | - | 8.10 |
| 3 | Area fully reclaimed (Backfilled) | - | 6.10 |
| 4 | Area rehabilitated by afforestation | - | 6.10 |
| 5 | Area reclaimed by water harvesting | - | 2.0 |
| 6 | Total area under dumps | 0.50 | |
| 7 | Area under active dumps | - | |
| 8 | Area under mineral stack | 0.50 | |
| 9 | Area under Road | 0.10 | |
| 10 | Area under Green belt (on area other than dump and backfilled area) | 0.50 | 0.984 |
| 11 | Area under infrastructure | 0.050 | |
| 12 | Garland Drain | 0.050 | |
| 13 | Undisturbed area | 3.384 | |
| | **Total** | **9.084** | **9.084** |

- The laterite is out cropping in the ML area and the same will be mined out in bench of 3m height and width.
- The haul road has been proposed to be extended up to the working faces at a gradient of 1 in 16.
- The OB/waste generated will be utilized for backfilling besides utilization for preparation of the protective bund on which plantation will be raised towards boundary.

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

- No tubs, haulage rope, conveyor or locomotive will be used. The OB and ore will be excavated and loaded manually on dumpers. Drilling and blasting is not proposed.
- A total of 1500 MT/ month i.e. 750 cum per month of OB and waste will be generated throughout the mine life
- Total Mineable Reserve is to the tune of 0.80 million ton, Max. Rate of Production is reported to be 75,000 TPA with anticipated Life of Mine of 12 years. Total water requirement for dust suppression, plantation and drinking is reported to be 10m3/day, which shall be made available from surface water from nearby source and sump water.
- Provision of budget towards Environmental protection (check dams etc) is ₹ 15,00,000.00
- Provision of budget towards Socio-economic development is ₹ 10,00,000.00.
- TOR was also proposed by the proponent.

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

1. Source of water for the project along with the permission from competent authority has to be furnished with EIA.
2. The water requirement of 10 KLD as proposed by the PP appears to be on lower side the same has to be reviewed and submitted with justification of every activity requiring water.
3. OB management has to be presented in the EIA /EMP as a separate chapter in detail.
4. At least one Ambient Air Quality Monitoring station should be installed towards the forest.

**2. Case no. 677/2012 - Shri Manoj Agarwal, M.D. , M/s J.M.D. Fertilizers Pvt.Ltd.. , Office – Brajdram Colony, Indore Road – Harda Distt. – Harda (M.P.) 461 331** *M/s J M D Fertilizer Pvt. Ltd. Manufacturing of SSP (Granulated) at Khasra no. 4/1,4/3, Village – Attarsama, Tehsil – Harda, Distt. – Hoshangabad (M.P.) Capacity: 400 TPD* For –ToR

**[Env. Consultant – Not Disclosed.]**

This is a case for Manufacturing of SSP (Granulated), covered under EIA Notification and mentioned at serial no. 5 (a). Cost of project is reported to be ₹ 37.785 Crore. The case was forwarded by SEIAA to SEAC for determining TOR to carry out EIA / EMP for the project. Salient features as reported by the PP and his consultant are as follows:

| Particulars | Details |
|---|---|
| Location of the Plant | Kharasa No: 4/1, 4/3, Village Attarsama, Tehsil- Harda, Dist Harda (MP) |
| Production capacity | 400 TPD of Granulated Super Phosphate |
| Total Project Cost | Rs. 37.785 Crore |
| Total land | Total Land : 10 Acres, Built Up area of Plant–5000 Sq mt |
| Land Ownership | Owned by the project proponent |

**(S.C. Jain) Chairman** | **(K.P. Nyati) Member SEAC** | **( V.Subramanian) Member SEAC** | **(Dr Mohini Saxena) Member SEAC**

**(A.P.Srivastava) Member SEAC** | **(Shri V.R. Khare) Member SEAC** | **(R.K. Jain) Member Secretary**

| | |
|---|---|
| Diversion | Land has been reported to be diverted for industrial use |
| Latitude | $22^0$24' 26.926" N |
| Longitude | $77^0$2' 35.568" E |
| Ht. above mean sea level | 302M |
| Nearest City | Harda - SES – 9.0km |
| Nearest Railway Station | Harda - SES – 9.0km |
| Nearest Airport | Indore- 130km by road |
| Nearest Highway | NH-59A - E - 0.75km |
| Nearest Village | Abgaon Kalan - EEN - 0.85km |
| Hills/Valley | None within 10km radius |
| Ecological Sensitive Zone | None within 10km radius |
| Historical Place | None within 10km radius |
| Nearest River/ Nalla | Narmada River - NNW - 9.5km<br>Shuki Nadi - SES - 4.55km<br>Canal - S - 0.14km<br>Pond - SWS - 4.0km |
| Reserve Forest | None within 10km radius |

**Area Statement:**

| Particulars | Area |
|---|---|
| Built up area | 5000 sq mt |
| Road Development | 2000 sq mt |
| Raw Material Storage area | 1500 sq mt |
| Finished Goods area | 2500 sq mt |
| Green belt | 13759 sq mt |
| Open Area | 15709.56 sq mt |
| Total Area | 40468. 56 sq mt |

**Salient features of the project:**

| Particular | Details |
|---|---|
| Production Capacity | 400 TPD |
| Rock Phosphate Requirement | 240 Tonne per day |
| Sulphuric Acid Requirement | 132 Tonne per day |
| Water Requirement | 320 KLPD |
| Source of raw Water | Ground water |
| Power Requirement | 940 KW |
| Source of Power | MPSEB |
| Alternative Source of Power | DG set of 1000 KVA |
| Height of Stack | 45 mt |
| Land acquired | 40468.56 Sq mt |

**(S.C. Jain) Chairman** | **(K.P. Nyati) Member SEAC** | **( V.Subramanian) Member SEAC** | **(Dr Mohini Saxena) Member SEAC**

**(A.P.Srivastava) Member SEAC** | **(Shri V.R. Khare) Member SEAC** | **(R.K. Jain) Member Secretary**

| | |
|---|---|
| Employment generation | 195 |
| Solid Waste | Silica Sludge- 0.36 TPD |
| Pollution Control Equipment | 04 stage scrubbers and Bag Filters |

**Brief of manufacturing process:**

- Sulphuric acid and ground Rock phosphate are mixed in the mixer. The gases which are evolved during the reaction of acid and rock phosphate are hydrogen fluoride and silicon tatrafluoride. These gases are passed through a ventury scrubber and finally through a separator (I and II). The scrubbed gases are sucked by I.D. fan and thrown into the atmosphere through the chimney. The effluent water from the scrubbing tower is taken into pits and solid particles (silica) are allowed to settle down. This liquid effluent is re-circulated for dilution of acid in the mixer and separated silica used as filler in cured SSP. Thus there is no liquid and solid effluent to be discharged either within or outside the premises.
- Manufacturing Process of Granular Single Super Phosphate - SSP powder is fed into granular drum, where powder SSP gets converted into granular with addition of water droplets. These granules are fed to granulesator to get dried by blowing hot air. Hot air is generated by burning coal in hot air granulator. Later on dried granules are fed to cooler drum where hot granules get cooled and conveyed to screens where 1 to 4 mm granules collected for packing and more than 4 mm are crushed and recycled all together with less than 1 mm size material. The outlet of drier drum and inlet of cooler drum remain connected with a series of cyclones and I D fans & finally with a chimney to remove dust particles and make dust free air before releasing to atmosphere.
- The byproducts generated due to the proposed industrial unit shall comprise of Silica. Silica will be used as filler material for SSP. Proper storage facility for Silica shall be developed with paved bottom surfaces and covered shed to avoid its contact with water.
- The waste oil generated will be stored in an earmarked place and will be sold to authorized recyclers.

Total Water Requirement (SSP/GSSP)- 320

- Water Requirement for SSP scrubber set - 300
- Floor Cleaning, Plantation etc SSP - 15
- Domestic/Utilities SSP - 05

During operation phase, the main sources of effluent generation will be as follows:

- Effluent from scrubber sets (SSP plant) - The clear effluent after settling containing H2SiF6 will be stored in the same sump and then recycled back to the mixer at the point of addition of acid for acid dilution along with rock phosphate at the mixer inlet.
- From floor cleaning – back to process
- Domestic effluent - shall be treated through septic tank and soak pit.

**Mitigation Measures proposed:**

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

- The major pollutants emitted due to operation of plant are Fluorine emission, Particulate Matter, Sulphur Dioxide & Oxides of Nitrogen. Major sources of pollutants are unloading, mixing & vehicular movement.
- Pulse Jet Dust Collector - emissions of rock phosphate dust from grinding of rock phosphate in ball mill shall be controlled through a pulse jet dust collector bag.
- During mixing of rock phosphate and sulphuric acid for SSP formation gases such as SiF4 and HF are released. The SSP plant will be provided with a four Stage Scrubbing system. The gases produced in SSP Plant will be passed through the following four scrubbing stages:
  - Ejectors
  - Venturi Scrubber
  - Cyclone System
  - Scrubbing Towers
- The gases to be scrubbed (SiF4 and HF) are highly soluble in water and thus water will be used in the scrubbing system for the absorption of these gases. An ejector comprising of a preformed spray containing single nozzle which will operate at high pressures and high injection will be provided. The high-pressure spray nozzle will be aimed at the throat section of a venturi constriction.

Proposed measures for GSSP Plant

- During granulation of SSP to GSSP formation, SSP dust will be evolved. Two cyclone in parallel i.e. twin cyclone system will be provided to remove particulates from gas stream through vortex separation. High speed rotating air flow blower will be provided for the purposes. The exhaust gas then discharged into the atmosphere through stacks with 30 mt 45m height. SSP dust will settle at the bottom of the cyclone and will be collected and used again in process.

<u>After deliberations committee has suggested inclusion of following TOR to carry out EIA / EMP</u>:

- Uranium has to be analyzed through authorized laboratory.
- Methods have to be explored to reduce the fluorine gas emissions as below as possible from the prescribed standards and fluorine balance will be prepared and submitted for effective management of fluorine.
- Lay out plan showing details of the storage area, plantation area etc.
- Lay out of the Industrial area with list of industries.
- Land allotment orders in name of the proponent. (Shri Manoj Agarwal, M.D. , M/s J.M.D. Fertilizers Pvt.Ltd.. , Office – Brajdram Colony, Indore Road – Harda Distt. – Harda (M.P.))
- Copy of notification of Industrial Area from Industry Department has to be furnished.
- PP shall have to conduct a public hearing if the proposed plot is not located in a Notified Industrial Area.

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

**3. Case no. 678/2012** **M/s Keshar Infrastructures ( Though it's Partners i.e. 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.**

Building Construction projects with built up area ≥20,000 sq .mtrs are covered under the EIA Notification and mentioned at S.N. 8 (a), hence these projects are required to obtain prior EC before initiation of the project activity. The proposed project is coming up in a plot size of 19,970 and Built- Up Area of Proposed Project – 51,444.46 Sq.m. The proposal was forwarded to SEAC by SEIAA for scoping. The salient features of the project were presented by the PP and his consultant before the committee. The presentation followed by the discussion revealed following salient features of the project:

| Proposed Project | Keshar Infrastructures |
|---|---|
| Location | Survey No. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, 17, 18/1, 18/2, 19, 20, 21, 22, 23/2, 24, 25, 26, 27, 364/8<br>Keshar Bag, Racecourse Road, Gwalior. (MP) |
| Owner of the land | Keshar Infrastructures |
| Plot Area | Total Land Area = 19970 sq mt |
| Proposed Built-up Area | Total Built Up Area = 51444.46 sq mt |
| Landscaped Green Area | 1614.837 sq mt |
| Dwelling Units | Residential Building : Total Number of Flats : 305, Offices : 100, Shops : 50, Hotel : 70 rooms approx. |
| Total Water requirement | 294 |
| Solid waste generated | 1289 kg per day |
| No. of Parking proposed | 435 + 320 no. |
| Total Power requirement | 2730.50 KW (1742.50KW + 988KW) |
| Total Plot Area | 19970 sq mt |
| Total available land for development | 19107 sq mt |
| Land under petrol pump | 743.49 sq mt |

**(S.C. Jain) Chairman** | **(K.P. Nyati) Member SEAC** | **( V.Subramanian) Member SEAC** | **(Dr Mohini Saxena) Member SEAC**

**(A.P.Srivastava) Member SEAC** | **(Shri V.R. Khare) Member SEAC** | **(R.K. Jain) Member Secretary**

| | |
|---|---|
| Area under road widening | 1189.63 Sq mt |
| Area under 6 mt wide service road | 1025.51 sq mt |
| Net Plot Area | 16148.37 Sqm. |
| Max Permissible F.A.R. | 16148.49X2.5 = 40370.925 sq mt<br>1189.19X2.5X2.0 = 5945.99 sq mt<br>1025.51X2.5X2.0 = 5127.55 sq mt<br>= 51444.46 sq mt |
| Permissible ground coverage 30% | 4844.51 sq mt |
| height | Stilt + 30 mt |
| Proposed open area 10% of net plot area | 1614.837 sq mt |
| Proposed built up area for residential | 35000 sq mt |
| Proposed built up area for commercial | 16444.46 sq mt |
| General Garbage | 1. There shall be segregation at source<br>2. Organic/Biodegradable And non recyclable waste will be disposed off at trenching site of GMC.<br>3. Inorganic waste like plastic, packing material, metal shall be sold to recyclers/vendors for recycling. |
| STP Sludge | STP sludge shall be in the form of drying beds & will be taken through filter press & used for gardening as per requirement. |

**Fire Safety Measures**

- Fire hydrants shall be provided all around the buildings.
- Walls enclosing lift shafts shall be fire resistant for 4 hour.
- Landing doors and lift car doors will be fire/ smoke resistant.
- Electrical meter room shall be on the ground floor and it will be adequately ventilated. It will also have a fire resistant door.
- The lighting of the escape route will be on independent circuit with power backup.
- Fire fighting and fire alarm provided in the building.

**Energy Conservation points proposed by the PP:**

- CFL based lighting will be done in the common areas, landscape areas, signage, entry gates and boundary walls etc.
- Roof, walls & fenestration products shall comply either the maximum U-Factor or minimum Insulation R- Values.
- DG sets shall be on auto cut and auto start controlled mechanism.
- Variable Frequency Drives (VFD) have been proposed for the Pumps and Blowers.

**(S.C. Jain) Chairman** | **(K.P. Nyati) Member SEAC** | **( V.Subramanian) Member SEAC** | **(Dr Mohini Saxena) Member SEAC**

**(A.P.Srivastava) Member SEAC** | **(Shri V.R. Khare) Member SEAC** | **(R.K. Jain) Member Secretary**

- It is proposed to use Cellular Light Weight Concrete (CLC), which uses fly ash for manufacturing.
- All the roofs are proposed to be insulated to minimize heat gain with 50 mm expanded polystyrene or equivalent insulation.
- Efficient plumbing equipments will further help to reduce energy consumption.
- Norms of the Energy Conservation Building Code 2005 would be followed

**Capital Cost for EMP**

| Component | Cost (Rs. in lakh) |
|---|---|
| **Water Pollution Control** | |
| Sewage Treatment Plant | 100 |
| Rain Water Harvesting System | 10 |
| **Total** | **110** |
| **Solid Waste Management** | |
| Solid Waste Collection Bins Disposal system | 07 |
| **Green Belt** | 02 |
| **Grand Total** | **119** |

**Recurring Cost for EMP**

| Particulars | Annual Recurring Cost (Rs. in Lakhs) |
|---|---|
| STP | 12.00 |
| Solid Waste Management | 6.00 |
| Environment Monitoring | 2.00 |
| Green Belt | 1.00 |
| **Total** | **21.00** |

**Papers submitted by the PP:**

- Notarized copy of Land ownership documents.
- NOC from fire & safety.
- Copy of approved lay out from Town & Country Planning dept.
- Paanchsal khasra.
- Other miscellaneous papers.

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

- 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 submitted.

**4.** **Case no. 679/2012 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 – amendement 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. The production of SSP is covered in the EIA notification (amended) as 'B' category project at S.N. . 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. PP was called to make a presentation various aspects to the project, the submissions and the presentation by the PP reveals following:

- Industry has been accorded environmental clearance by MoEF for production of powder SSP (1,65,000 MTPA) vide letter no. J-11011/534/2008-IA II (I) dated 08.09.2011
- Industry has obtained Consent to Operate from MPPCB on 20.09.2011 and presently unit is operating with valid consent
- Considering the market demand, industry proposes to manufacture the granular SSP without changing the production capacity i.e. 1,65,000 MTPA
- The proposal will be executed at existing site of SSP Plant located at Meghanagar Industrial Development Area, Meghanagar, District Jhabua, (MP)

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

- Industry has not been issued legal directions / notices for any non-compliance.

**Location Aspect of the Project:**

| | |
|---|---|
| Loaction | 176 , AKVN Industrial Area, Meghanagar, Dist Jhabua (MP) |
| Nearest Village | Agaral at 4 KM |
| Nearest Railway Station | Meghanar at 10 KM |
| Nearest State Highway | Meghanagr- Ujjain at 0.3 KM |
| Nearest Surface water source | River Anas at 5 KM |
| Nearest River | River Anas at 5 KM |
| Nearest Airport | Indore at 90 KM |
| Nearest Town | Meghanagar at 10 KM |
| National Park/Wildlife Sanctuary/ Reserved Forest | None in 10 KM radius |
| Tiger Reserve/Elephant Reserve/Turtle Nesting ground | None in 10 KM radius |
| Core Zone of Biosphere Reserve | None in 10 KM radius |
| Habitat for migratory birds | None in 10 KM radius |
| Lakes/Reservoir/Dams | None in 10 KM radius |
| Stream/Rivers | Anas River - S-5 km,<br>Pat River - NE-8 km<br>Nagari Nadi - SW- 3 km |
| Mountains/Hills | None in 10 KM radius |
| Notified Archaeological sites | None in 10 KM radius |
| Any other Archaeological sites | None in 10 KM radius |
| Defense Installation | None in 10 KM radius |

**Salient features of the project:**

| | |
|---|---|
| Production Capacity | Existing - 1,65,000 MTPA (SSP)<br>Proposed - 1,65,000 MTPA (GSSP) |
| Cost of Project | Existing - 818 Lacs<br>Proposed – 374.66 Lacs |

**(S.C. Jain) Chairman** | **(K.P. Nyati) Member SEAC** | **( V.Subramanian) Member SEAC** | **(Dr Mohini Saxena) Member SEAC**

**(A.P.Srivastava) Member SEAC** | **(Shri V.R. Khare) Member SEAC** | **(R.K. Jain) Member Secretary**

| | |
|---|---|
| Water Requirement | Existing - 95 KLD<br>Proposed – 128 KLD |
| Power Requirement | Existing - 500 KVA<br>Proposed -700KVA |
| Source of Power | MPSEB |
| Alternative Source of Power | DG set of 500 KVA |
| Land acquired | 26600 Sq mt |
| Pollution control equipment to be installed | Existing : 4 Stage Scrubber & Bag Filters |
| Cost of Pollution Control Equipments | Rs. 83.50 Lac |
| Development of Green Belt | Existing : 3653 Sqm<br>Proposed :7000Sqm |
| Total Employment Generation | Existing : 70-75 persons<br>Proposed : 90 – 95 persons |
| Total area acquired for Installation for GSSP unit | 600 Sqm |

**Manufacturing Process from SSP to GSSP**

- Powder S.S.P. is fed in a storage hopper & Conveyed to granulator drum. It is a rotating drum where granules are made by spray of water. These granules are fed to dryer drum, which is heated by a furnace. The moisture of granules is evaporated to chimney through cyclone separator where fines are arrested.
- The heated granules are fed to a cooler drum where it is brought down to slight above the room temp. The granules are sent for grading where over size, undersize are separated. Oversize granules are broken in the chain mill & fed again to granulator, along with undersize.
- The on size granules are packed for dispatch.

**Existing Water balance:**

| S. No | Activity | Water Requirement (m3/day) |
|---|---|---|
| Fresh water Requirement | | |
| SSP plant | | |
| 1 | Water Requirement for SSP scrubber set | 3 |
| 2 | Floor Cleaning SSP | 4 |
| 3 | Domestic/Utilities SSP | 3 |
| 4 | Plantations/Gardening SSP | 10 |
| | Total Fresh Water Requirement (SSP/GSSP) | 20 |

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

| | | |
|---|---|---|
| Recycled Water Requirement | | |
| SSP plant | | |
| 1 | Water for SSP scrubber set | 75 |
| 2 | Total recycle water Requirement (SSP) (A) | 75 |
| Total Water Requirement | | 95 m3/day |

**Proposed Water balance:**

| S. No | Activity | Water Requirement ($m^3$/day) |
|---|---|---|
| Fresh water Requirement | | |
| SSP plant | | |
| 1 | Water Requirement for SSP scrubber set | 3 $m^3$/day |
| 2 | Floor Cleaning SSP | 4 $m^3$/day |
| 3 | Domestic/Utilities SSP | 3 $m^3$/day |
| 4 | Plantations/Gardening SSP | 10 $m^3$/day |
| 5 | Water Requirement for GSSP | 33 $m^3$/day |
| | Total Fresh Water Requirement (SSP/GSSP) | 53 $m^3$/day |
| Recycled Water Requirement | | |
| SSP plant | | |
| 2 | Water for SSP scrubber set | 75 $m^3$/day |
| | Total recycle water Requirement (SSP) | 75 $m^3$/day |
| Total Water Requirement (B) | | 128 $m^3$/day |

Thus, Increase in water requirement shall be (B) – (A) = 128-95 = 33 $m^3$/day. The required water shall be provided by AKVN. Letter in this context has been submitted by the PP.

**Effluent Generation from: SSP Plant**

During mixing of sulphuric acid and rock phosphate ore, silica tetra fluoride and Hydrogen Fluoride will be evolved. These gases are being scrubbed with the help of multi stage scrubbing system by addition of water. The effluent generated from this scrubber set is acidic in nature and contain Silica and acidic liquid $H_2SiF_6$. Approximately 73 $M^3$ /day of effluent is being generated from SSP scrubber set. The effluent has been collected in a common sump and pumped into a filter press/ notch filter to separate out Silica. The clear effluent containing $H_2SiF_6$ is recycled back to the mixer at the point of addition of acid for acid dilution along with rock phosphate at the mixer inlet. There will not be effluent generation from GSSP plant.

The major pollutants emitted during the operation are Fluorine emission, Particulate Matter, Sulphur Dioxide & Oxides of Nitrogen. Following measures has been taken care

for SSP plant.

Existing measures for SSP Plant

- A pulse jet dust collector bag has been provided at the Ball mill to reduce the dust particles.
- The SSP plant has been provided with a four Stage Scrubbing system.
- The DG set has been provided with stack of 15 mt.
- Water spraying at internal road is in practice
- Green belt with 930 number plant have been developed

Proposed APC measures for GSSP Plant

During granulation of SSP for GSSP formation, SSP dust will be evolved. Two cyclone in parallel i.e. twin cyclone system will be provided to remove particulates from gas stream through vortex separation. High speed rotating air flow blower will be provided for the purposes. The exhaust gas then discharged into the atmosphere through stacks with 40 mt height. SSP dust will settle at the bottom of the cyclone due to high inertia and particles from the bottom surface of the cyclones will be collected and used again in process

| Year | Area (sq. mt.) | Number of Plants |
|---|---|---|
| Existing | 3653 | 930 |
| Proposed | 7000 | 1200 |
| Total | 10653 | 2130 |

Based on the presentation and the submissions made by the PP and his consultant committee has decided to recommend the case for amendment in the prior Environmental Clearance issued by MoEF vide letter dated **25/08/08. The EC may be modified for 'production of Granulated Single Super Phosphate** (GSSP) to the tune of 1,65,000 MTPA' subject to the following special conditions:

- Densification of Green belt / area has to be taken up immediately.
- House keeping has to be improved.
- The additional water required is reported to be 33 KLD, this has to be ensured from AKVN under no circumstances abstraction of ground water should be allowed.
- Possibilities should be explored to develop a system whereby the required size of granules may be obtained directly from the rotary mills so as to avoid the re-processing of under-size / over-size granules.
- Other terms and conditions as laid down in existing EC shall remain unaltered.
- The amended EC has to be kept with existing EC while reviewing the EC-compliances by monitoring agencies.

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

**5. Case no. 459/ 2009 M/s Budwa Minerals R/o Village- Budhwa, P.O. – Budhwa, Teh. Beohari, Distt. – Shahdol (M.P.)** Sathni Ochre,White Clay & Laterite Mine of M/s Budwa Minerals, Village- Sathni, Tehsil-Beohari, Distt.- Shahdol (M.P.) Area-26.210 Ha, Capa.. - 1800 TPA **For –EIA Presentation**

ToR issued vide letter no. 993 dt. 09/11/09

**Env. Consultant – Creative Enviro-Services, Bhopal, (M.P.)**

Neither the PP nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in the coming meetings as per turn.

**6. Case no. 680/2012 Shri Mukesh Mittal, Director, M/s Liberty Urvarak Limited, F-225 Mewar Ind. Area, Madri, Udaypur (Rajasthan)** *Expansion of Liberty Urvarak Limited,Nimrani (M.P.) Existing capacity- 300 TPD SSP & 150 TPD GSSP. Total capacity after proposed expansion - 600 TPD SSP & 600 TPD GSSP at 413 A, Nimrani Industrial Area, Nimrani, Village- Nimrani, Teh. – Kasrawad, Distt. – Khargone (M.P.)* For - ToR

**[Env. Consultant – EQMS, N. Delhi.]**

This is a case for Manufacturing of SSP (Granulated & Powder), covered under EIA Notification and mentioned at serial no. 5 (a). The case was forwarded by SEIAA to SEAC for determining TOR to carry out EIA / EMP for the project. Salient features as reported by the PP and his consultant are as follows:

**Location aspect and salient features of the project:**

| | |
|---|---|
| Products & Production Capacity | ➢ Existing capacity- 300 TPD SSP & 150 TPD GSSP.<br>➢ Total capacity after proposed expansion will be: 600 TPD SSP & 600 TPD GSSP |
| Capital Investment | Rs. 1.5 Crores |
| Capital Investment for Pollution Control | Rs. 0.174 Crores |
| Plot No. | 413 (A) Nimrani Industrial Area |
| Location | Khasrawad, Nimrani |
| District | Khargone |
| Latitude | 22° 07’ 41.36’’N |
| Longitude | 75° 27’ 20.16’’E |
| Nearest National Highway | NH3 - 0.72 km |
| Nearest Populated Area | Dhamnod - 13 km(NE) |

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

**Area Statement:**

| Particular | Area (sq. m.) | Area (%) |
|---|---|---|
| Plant Area | 1316 | 4.2 |
| Storage Area | 6773 | 21.4 |
| Office | 175 | 0.5 |
| Green Area | 2500 | 8.1 |
| Paved Area & Parking | 100 | 0.3 |
| Roads | 160 | 0.5 |
| Future Expansion | 75 | 0.2 |
| Others | 20518 | 64.8 |
| **Total** | 31617 | 100 |

**Project requirement:**

| Component | Requirement | Status |
|---|---|---|
| Water | 66 KLD (for expn.) | Requirement will be fulfilled from outside sources |
| Power | 18 units /Ton SSP & GSSP produced. | The power will be taken from MPSEB. |
| Power Backup | | HSD based DG set |
| Storage (Raw Materials/ By-Product/ Final Products) | | Rock Phosphate- 174 MT<br>Sulphuric Acid- 110 MT<br>Silica Sludge 515.2 kg for 300 TPD SSP,<br>Hydro Fluoro Silicic Acid 19.70 KL/ day |
| Fuel | Steam Coal | – Grade 'B' (CV.-4200 to 5000 kcal) |
| Manpower Requirement | | Direct Employment : 35 Nos.<br>Indirect Employment : 60 Nos. |

**Water conservation plan submitted by the PP:**

- Industrial effluent generated from scrubbing operations will be stored in a thickener having 66 KL capacity. This effluent will be recycled back into the process. This will be consumed in the production of SSP fertilizer for acid dilution or can be sold out to local fluorine salts manufacturers. There is no disposal of industrial effluents.
- Only effluent generation will be in the form of domestic effluent. Domestic effluent will

be disposed off through septic tank followed by soak pit.

- Rainwater harvesting pits will be provided within the plant premises.

**Air pollution Control equipments proposed/already installed in the plant:**

- Blowers, Chimney, Cyclone, Dust chamber with total cost –Rs 17.4/- lacs

- **Granular SSP**
  - Twin cyclones & Blower
  - Dust separation chamber
  - 30 m stack for venting of gases
- **Powder SSP** :
  - Cyclone & Dust Collector
  - Closed Conveyors
  - Venturi Scrubbers –4 stages
  - Reuse of dust separated from cyclone separator and from dust collector in process, scrubbed liquor in the process has been proposed.
  - HF gas generated from the SSP process will be conveyed in rubber lined ducts to the scrubbers.

After deliberation the committee suggested following points to be included in the EIA /EMP preparation:

- Uranium has to be analyzed in rock phosphate through authorized laboratory.
- Methods have to be explored to reduce the fluorine gas emissions as below as possible from the prescribed standards and fluorine balance will be prepared and submitted for effective management of fluorine.
- Lay out plan showing details of the storage area, plantation area etc.
- Lay out of the Industrial area with list of industries.
- EIA should address all sources of emissions including the raw material/ product storage areas.
- Land allotment orders in name of the proponent. Shri Mukesh Mittal, Director, M/s Liberty Urvarak Limited.
- Copy of notification of Industrial Area from Industry Department has to be furnished.
- Compliances of the existing EC, Air/Water Consents have to dealt point-wise as a separate chapter of EIA.
- Detailed area statement with activity-wise justification to be provided. Additional land if required has to be procured by the PP. Land procurement documents in this context have to be provided with EIA report.
- List of all the hazardous wastes being generated and expected to generate has to be furnished along with the estimated quantity and mode of disposal.
- Present practices being adapted for disposal of hazardous wastes (sludge from scrubbers / thickener etc.) to detailed out.
- 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:

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

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 |
|---|---|---|---|
| | | | |

- PP shall have to conduct a public hearing if the proposed plot is not located in a Notified Industrial Area.

**7. Case no. 682/2012 Ku. Bharti Parwani, Vishnu Heights of M/s Jitesh Estate Pvt. Ltd., 141, Mezzanine Floor, City Trade Centre, Malviya Nagar, Bhopal ( M.P.) – 46200** Vishnu Heights of M/s Jitesh Estate Pvt. Ltd. at .Part of Khasra no. of 24/1/3,14/3 and 14/5/1 Village – Bawdia kalan, Teh. – Huzur, Distt. – Bhopal(M.P.) Total Land Area – 2.634 ha.. , Total Built Up Area – 79595.35 sq mt. for Residential Building, Club House and School **For - Building Construction**

**Env. Consultant – Creative Enviro-Services, Bhopal, (M.P.).**

The case was forwarded by SEIAA to SEAC for appraisal of the project. It was observed by the committee that the project consist the land purchased from Co-operative Housing Society on which the developer i.e. the project proponent is constructing a Residential Building, Club House and School. In opinion of committee the proponent should submit clear NOC from the Commissioner / Registrar Firms & Society that the land in question can be sold by the said Co-operative Housing Society to Ku. Bharti Parwani, Vishnu Heights of M/s Jitesh Estate Pvt. Ltd., 141, Mezzanine Floor, City Trade Centre, Malviya Nagar, Bhopal ( M.P.). Hence the case was deferred till submission of the requisite NOC from Commissioner / Registrar Firms & Society.

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

| (S.C. Jain) Chairman | (K.P. Nyati) Member SEAC | ( V.Subramanian) Member SEAC | (Dr Mohini Saxena) Member SEAC |
|---|---|---|---|

| (A.P.Srivastava) Member SEAC | (Shri V.R. Khare) Member SEAC | (R.K. Jain) Member Secretary |
|---|---|---|

**[Env. Consultant – In Situ Enviro Care, Bhopal (M.P.)]**

It was observed by the committee that the land is in name of Shri Narendra Gorani whereas the development of township has been proposed by M/s Sumer Builders Pvt. Ltd.; committee has decided to ask the PP either to submit a copy of 'Joint Venture' clearly mentioning the responsibility for compliance of the EC conditions or to submit a fresh application by the original owner of the land. The case was deferred till submission of the above document.

**9. Case no. 684/2012 Shri Jasjeet Singh Walia, M/s Broken Hill Mining Company, 188, Rizwan Bagh - Lalghati, VIP Road, P.O. - Bhopal, Distt. - Bhopal ( M.P.) – 462032** *Gidurha Laterite & Iron Ore Mine KhasraNo. 633,634,,397 at Village – Gidurha, Tehsil – Sihora, Distt. – Katni (M.P.) Lease area – 9. 20 ha. Capacity – 0.30 MTPA .* **For –ToR**

**[Env. Consultant – Grass Roots Research and Creation India (P) Ltd. NABET-QCI Accredited as per Certificate No: NABET/EIA/ 1013/052]**

This being a mining project with lease area between 50 ha to 5 ha is listed at S.N. 1(a) of schedule under 'B' Category of EIA Notification, 2006 and is to be appraised by SEAC **The case has been forwarded by SEIAA to SEAC to determine the TOR to carry out EIA / EMP for the project.** It was reported that t**his is a new mine yet to begin operation. Opencast, fully mechanized method of mining will be adopted in the lease area. PP and consultant presented the case before the committee. The submissions and the presentation revealed following:**

- The area under reference is revenue land and the state Government of M.P. vide their letter no.-F2-38/2006/12/2 Bhopal Dated- 26.06.2009 sanctioned prospecting license over 9.20 ha area.
- The prospecting license deed in form F was executed on 29.08.2009 for two years period up to 28.08.2011.
- A communication letter of grant of mining lease has been issued vide letter No.-F-3-44/2010/12/2, Bhopal dated -24.12.11 by the State Government of M.P. Mineral Resource Department. The central Govt. has also granted the approval under section 5(1) of MMRD act 1957 as Iron Ore is listed as scheduled mineral.

**Location and geographical aspects of the mining site**

| | |
|---|---|
| Project | Gidurha Laterite & Iron Ore deposit |
| Location | Village: Gidurha, Tehsil : Sihora, District : Jabalpur |
| Total Area | 9.20 ha |
| Type of Lease Area / ownership | Revenue Land & Government Land |
| Cost of the Project | Rs. 2.0 crores. |

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

| | | |
|---|---|---|
| Nearest Village | : | Gidurha N 0.60 km |
| Ultimate depth of Mining | : | 20 m deep mine pits from existing surface level. |
| Ground water level | : | 25 m BGL |
| Latitude | : | 230 22'45.3" to 230 23'04.7" North |
| Longitude | : | 800 12'47.3" to 800 12'59.0" East |

| | |
|---|---|
| Dense Mixed Jungle | 500m South & 2.5 Km Northeast |
| Jauli R.F. | 2.5km Northeast |
| Budhari R.F. | 4km South |
| Heran River | 10km East |
| Hagni nadi | 2.5 km North |
| Bhagela Nadi | 4km Northwest |
| Santhi Nalla | 5.0 km Southeast |
| Lake | 8.5 km Southeast |
| Barnu Resrvoir | 10km Southeast |
| Majhgawan Water Reservoir | 0.5km & 2.5 km Northwest |

**Salient features of the project:**

| | | |
|---|---|---|
| Ore to be mined | Laterite & Iron Ore | |
| Mining Methodology | Opencast other than fully Mechanized (Excavation, loading & Transport will be done by HEMM, Only occasional drilling & controlled may be carried out of 32mm dia holes upto 1.5m depth.) | |
| Total Mineable Reserve | UNFC Code - 122<br>UNFC Code - 222 | 1.48 million tonne<br>0.30 million tonne |
| Solid Waste Generation | 13000 MT/ month | |
| Rate of Production | 3,00,000 TPA Laterite & Iron-ore | |
| Anticipated Life of Mine | 7 years ( based on present level of exploration .This will increase after detailed exploration during 1st two years of mining) | |
| Water Requirement | Total water requirement for dust suppression, plantation and drinking is 20m3/day.. | |
| Source of Water | Water will be sourced from dug wells/ bore wells for drinking purpose and Sump | |
| Working Days | 300 | |
| Employment Potential | 103 nos | |
| Site Services | Mine office, Welfare and Recreation room, Rest shelter, First-Aid centre, Time office and Canteen | |

**Mining Area Land use planning**

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

| S.NO | Land Use | Fifth Year/ Lease Period end | Mine Life |
|---|---|---|---|
| 1 | Total area excavated (broken) | 3.695 | 8.0 |
| 2 | Area fully mined out (out of 1) | - | 8.0 |
| 3 | Area fully reclaimed (Backfilled out of 2) | - | 5.0 |
| 4 | Area rehabilitated out of 3 by afforestation | - | 5.0 |
| 5 | Area reclaimed by water harvesting | - | 3.0 |
| 6 | Total area under dumps | 0.55 | |
| 7 | Area under active dumps | - | |
| 8 | Area under mineral stack | 0.50 | |
| 9 | Area under Road | 0.10 | |
| 10 | Area under Green belt (i.e. plantation on area other than dump and backfilled area) | 0.375 | 1.20 |
| 11 | Area under infrastructure | 0.050 | |
| 12 | Garland drain | 0.010 | |
| 13 | Undisturbed area | 3.92 | |
| | **TOTAL** | **9.20** | **9.20** |

**Budget kept for Environment & Socio-economic activities –**

| Description | Cost in Rs. |
|---|---|
| Environmental protection (check dams etc) | 10,00,000.00 |
| Socio-economic development | 10,00,000.00 |
| **TOTAL** | 20,00,000.00 |

After deliberations committee has decided to issue TOR to the PP for carrying out EIA / EMP with inclusion of following special conditions:

- Water budgeting to be provided in detail taking into consideration all the proposed activities.
- Quantity of water required for the project and its source to be furnished along with the permission from the competent authority.
- Green area development plan to be furnished on the site lay out showing the locations of OB-dumps, pits etc.
- The figures mentioned against the proven / probable / minable reserves have to be explained in detail in the EIA report.
- EIA has to be done through accredited consultant.
- At least two AAQMS shall be installed towards forest boundary.
- Other terms shall be as per the terms decided by the committee for mining projects.

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

**10. Case no. 685/2012** **Shri Manoj Jain, Partner, " MAPLE HIGH STREET" M/s Global Properties Pvt. Ltd. Hoshangabad Road, Opp Ashima Mall, Bhopal (M.P.) - 462036** " MAPLE HIGH STREET" Commercial Shopping Mall at Khasra No. 367, 374, 386/1 Village - Bawadian Kalan, Tehsil – Huzur,Distt. – Bhopal (M.P.) Total Land Area – 1.0115 Ha. ( 10114.96 Sq.m.) Total Built Up Area – 2.5255 Ha. (25255.37 sq mt) **For Building Construction**
**[Env. Consultant – Env. Consultant – In Situ Enviro Care, Bhopal (M.P.)]**

Building Construction projects with built up area ≥20,000 sq. mtrs are covered under the EIA Notification and mentioned at S.N. 8 (a), hence these projects are required to obtain prior EC before initiation of the project activity. The proposed project is coming up in a plot size of 10114.96 $m^2$ and Built- Up Area of Proposed Project – 25, 255.37 Sq.m. The proposal was forwarded to SEAC by SEIAA for scoping. The salient features of the project were presented by the PP and his consultant before the committee. The presentation followed by the discussion revealed following salient features of the project:

- At present the land is barren land. The project site will be developed strictly as per the government approved land use plans.
- Total Land Area is 10114.96 m2 in which proposed built up area is = 25255.37m2. The water requirement is 243 KLD. Power requirement is 3.5 MW.
- The site is situated at Hoshangabad Road, Bhopal. The Habibganj Railway station is within 04 km from the site.
- Community facilities, Commercial facilities in the form of entertainment areas, shops and office spaces will be provided. Parking Facilities for cars and two wheelers are also provided.
- The proposed construction will involve minor cutting and filling operations. The proposed site area is primarily a flat land and is not prone to erosions. The project would involve construction and development of green areas, which would reduce the chances of erosion subsidence.
- The existing drainage pattern of the area is not expected to change due to the proposed development.
- For construction purpose, water would be procured from private Tankers. Waste generated during the construction phase is expected to be very less as no labor camps will be made and local labors will be employed. Temporary make shift tents will be provided for the labors.
- Construction debris will be collected and suitably used on site as per construction waste management plan. Any waste generated is proposed to be sold/ reused for construction activities.
- The topography of the area is not expected to be affected by the project as the region has a more or less flat terrain and the site is a low-lying area.

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- Approximately 166 m3/day (Approx.170m3/day) wastewater will be generated during the operational phase. About 90 % of this wastewater will be available after treated in a sewage treatment plant working Contact Aeration System and Multi-Media Filtration System and the remaining will be taken into the municipal sewers. The characteristics of the wastewater is claimed to be as per the prescribed norms.
- STP capacity is 170 KLD out of this 153 KLD will be the treated water .The treated water from the sewage treatment plant will be used on site for landscaping and flushing purposes.
- The proposed STP will be designed appropriately to take care of the expected peak and average flow in order to maintain the characteristics of the treated
- The rainwater harvesting will be done for roof top areas through percolation wells. It is estimated that 7036 m3/ annum rainwater can be collected. The harvested water will be used for artificial recharge and will not be stored. A network of 04 no. percolation wells has been proposed for artificial recharge of ground water.
- The main source of water supply will be Ground water and Municipal water supply. It will cater the domestic requirements whereas additional water requirement will be fulfilled through treated water from Sewage Treatment Plant. Ground water will only be used for drinking purposes. Water table depth is within 20 m of present ground level.
- Power would be drawn from MPEB. The total maximum demand would be 3.5 MW.
- Backup Source: - 3 DG sets of : 1 x 365 kVA for Common Area ( 1 x 250 KVA for Multiplex Area and 1 x 1000 KVA for Hotel Area). HSD fuel will be used.
- Measures proposed to minimize the energy consumption are
    - spacing between buildings maintained such that sunlight, natural ventilation is not disturbed.
    - Building will be designed to have least exposed surface of glass.
    - Energy efficient appliances such as CFL lighting will be used for internal lights of shopping mall as well as for street lighting.
- Solar energy is proposed for
    - Emergency & street lighting.
    - Solar water heating system proposed for hot water supply.
    - Layout of buildings has been done as per sun path analysis so that the design cuts
    - Direct radiations of critical hours specific to the orientation.
- Fire fighting provisions are being made as per the latest Indian Standard Codes which provide for storage of water required for firefighting purpose partly in underground tank and partly in overhead tank. These tanks shall be built integrated with the clear water storage tank. The clear water shall be pumped into

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|---|---|---|---|
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the tanks for fire fighting and shall overflow into the drinking water tanks. This ensures that the water in fire fighting tanks remains fresh.

- Requisite no. of area fire hydrants will be provided with minimum 6 m wide passage for movement of fire tender around each cluster. A fire detection system with manual brick paints in each staircase and a panel board in fire pump house is also planned. If you are using In case glass is used as wall material, provide details and specifications including emissivity and thermal characteristics. The project will not involve use of glass as wall material.
- PP has submitted EMP for air, water, land, noise etc. environment. The Socio-Economic aspects have also been presented.

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

**"Queries are not given. Please include that PP will submit revised conceptual plan along with the replies**."

**11. Case No. 637/2011 - Mr. Mayank Garg, Managing Director M/s D B City Project Bhasker Housing Dev. Co. Pvt.Ltd. Ist Floor, Hotel Gwalior Regency, Link Road, Gwalior (M. P.)** *Project: Proposed 1106 Residential Units, Club, Shopping Arcade at Survey No. 573 to 575,579 to 587,590,592,593,595 to 619,621 to 628 and 706 & 708 Village- Mehra, Tehsil- Gwalior, Distt. – Gwalior (M.P.) Total Land Area – 1,06,821.016 Sq.m., Total Built up Area – 1,26,495.00 Sq.m* **Query presentation For Building Construction**

**[*Env. Consultant* – J.M. Environet Pvt. Ltd., Gurgaon.]**

The project was discussed in detail in the 90th meeting of SEAC dated 02/03/2012. After deliberations committee has raised certain queries to the PP. Point-wise reply to the queries was submitted by the PP and the same was presented before the committee in this meeting. Following queries were raised by the committee:

- *It was observed by the committee that a nalla is passing from near the proposed site; Committee desires to know the following facts about this feature- its origin, termination, total length and other relevant details including the distance of the nalla from the project boundary.*
- *Surface drainage map in the appropriate scale has to be furnished.*
- *Proposed protection measures for protection of the nalla to be furnished.*
- *Area break-up including the green area to be submitted.*
- *Height of the buildings is reported to be 33 meters; in this context the PP is required to furnish following information with supporting documents justifying the guidelines issued vide O.F. of MoEF no. 21-270/208-IA.III dated 07/02/2012 - width of road (right of way), NOC from fire department, distance from location of fire station, NOC from state Disaster Management Authority.*
- *STP: A write-up of the proposed STP with design details to be furnished.*
- *MSW & sludge is proposed to be disposed off at the MSW disposal site of Gwalior Municipal Corporation; agreement / consent of GMC along with the financial implications to be submitted in this context.*

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- *A corpus fund should be created for execution of environment related obligations, accordingly plan to be submitted.*
- *Permission from CGWA for abstraction of ground water to be submitted.*

Reply to above queries was submitted by the PP and the same was discussed before the committee in detail. It was reported by the proponent that construction activities have been initiated in the project for which proponent has submitted a resolution from the Board of Directors along with affidavit stating that such violation shall not be repeated in future. Committee is satisfied with EMP, feasibility report, and various submissions made by the PP. Hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. Location of STP shall be away from the boundary facing nalla.
2. Open area shown for future activities shall be kept open and any activity in these areas can be taken up only after obtaining fresh prior EC.
3. No construction acivity shall be taken up within 60 meters from the HFL of the near by .
4. The STP as proposed has to be installed along with the other construction activities. As claimed the BOD reduction of 90% has to be ensured through out. Any item requiring replacement in the supplied STP has to be provided by the supplier for the project life free of cost.
5. Provision for power back-up has to be kept exclusively to ensure uninteruptted STP operations.
6. As proposed that sludge shall be used as manure, the society shall designate a safe space within the project arae for storage of sludge where the sludge may get decomposed into manure.
7. A fencing shall be developed at 60 meters away from HFL. Green row shall be developed between road and the project.
8. The green belt may be developed at an elevated level by raising the ground level, sloping inwardly from nalla-side boundary such that no over-flows can reach the nalla through slopes.
9. PP shall promote schemes for conservation of water in such a way that the fresh water demand shall not go beyond 537.50 KLD.
10. All sanitary fittings, pipelines etc. used in the project shall be of premium quality conforming the norms to avoid wastage of water through leakages.
11. PP shall use surface water supplied by the municipal corporation in the project as far as possible and no abstraction of ground water shall be done without obtaining the permission from CGWA.
12. Play space shall be provided for the children within the premises of the proposed township.
13. The construction site shall be provided with adequate signage and barricades of at least 3 m height on its periphery.
14. Adequate drinking water and sanitary facilities should be provided for construction

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workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

15. All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
16. 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.
17. 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.
18. Vehicles hired for bringing construction material at site should be in good conditions and conform to applicable air and noise emission standards and should be operated only during non-peak hours.
19. 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- mix concrete should be used as far as possible.
20. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
21. Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
22. Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
23. Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
24. The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.
25. 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.
26. The applicant shall install and operate their own sewage treatment plant (STP) as per the details submitted to the SEAC to treat the generated sewage (171 KLD). 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.
27. Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
28. Dual plumbing system as proposed shall be adopted for the re-use of treated waste

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water.

29. 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.
30. 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.
31. The green belt along the periphery of the plot shall be provided at least having three tiers of the trees of local species as per the plan submitted. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
32. The applicant shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.
33. The applicant shall install the electric utilities / devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
34. The energy audit shall be conducted at regular interval for the project and the recommendations of the Audit report shall be implemented with spirit.
35. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
36. The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose. Further, the applicant shall carry out tree plantation activity and shall plant and maintain 1000 trees at an appropriate area in the town in consultation with the Municipal Corporation and local authorities within a period of 5 years.
37. 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.
38. Common utilities like drinking water facility, Toilets etc. shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.
39. 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.
40. 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.
41. Training to the staff for the first aid and fire fighting along with regular mock drill shall be made an integral part of the disaster management plan of the project.

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42. 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.
43. Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
44. Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning.
45. Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project.

## Query Reply discussion – 9th April 2012

**1. Case No. 268/2009** - **(Qry – 87 SEAC Meeting dt. 07/01/12)**

**Shri Intizar Hussain , S/o Shri Jawwad Hussain , Mohalla - Bari Imli, P.O. Nawgawan sada, Distt: - J.P. Nagar (U.P.)** Laterite, Bauxite, Iron ore, Manganese & Clay Mine, Area - 6.44 Ha at village Devnagar, Tehsil- Sihora, Distt-Jabalpur (M.P). Production Capacity- 80,000 MT/Year. TOR issued vide letter no. 240 dt.09/04/09

The case was discussed and presented before the committee in the 73rd SEAC Meeting dated 15th December, 2010. While scrutinizing the case it was observed that during public hearing majority of people including gram sabha have registered objections / complaints against the project. It was decided by the committee to inspect the site through the sub-committee in view of strong public opposition. Site visit was conducted by the sub-committee on 16/12/2011. Sub-committee discussed the matter at site with Members of Gram Sabha and villagers and it was concluded that villagers have no objection if the mining operation is started by the applicant himself. A letter / NOC in this context has been given to the sub-committee by the Gram Panchayat Devnagar at site. PP has also submitted a conditional NOC from the Gram Sabha (date 03/09/2011). Local villagers have also given a written NOC in favour of applicant. In view of above the sub-committee has recommended that the PP may be asked to submit the lacking information / reply to the queries came out from the EIA/EMP appraisal without waiting for change in the ownership.

Detailed scrutiny of the case reveals that PP was to submit following information along with the supporting documents for further action in the matter:

- *Mining lease has to be submitted in the name of applicant.*
- *NOC from the forest department in the format has to be submitted.*
- *Khasra Paanch - Saala to be submitted.*

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- *Executive summary of the EIA /EMP to be submitted.*
- *Project specific EMP to be submitted.*
- *Micro-level features existing in 2 Km radius around the site to be submitted with map.*
- *CSR activities with budgetary provisions to be submitted in view of public hearing and conditions NOC issued by gram sabha.*
- *Approved mining plan with closure plan to be submitted.*
- *Mode and route of transportation to be submitted.*
- *Information of the project in prescribed format to be submitted.*

PP has submitted the satisfactory reply to the above queries along with the supporting documents. The EIA / EMP and other submissions made by the PP were found satisfactory, hence committee decided to recommend the case for grant of prior Environmental Clearance subject to the following special conditions:

1. CSR activities and budgetary provisions submitted by the PP in view of public hearing should be implemented.
2. The lease area boundary shall be fenced from all sides to avoid the entry of animals into the mining area.
3. Adequate water sprinkler system shall be installed in the region to prevent fugitive emissions.
4. Movement of the heavy-vehicles should be restricted from the near by villages.
5. Garland-drain shall be constructed to maintain zero discharge from the mining lease area into the nearby water bodies.
6. Blasting shall be restricted as per the recommendation of Gram Sabha. If at any point of time blasting is planned it should only be carried out with consent of Gram Sabha.
7. At least 33% of total plot area should be planned for plantation as per the proposal submitted.

**2. Case No. 600/2010 (Qry - 85th SEIAA Meeting dt. 29/02/10) - M/s Mittal Corporation Ltd. ( Unit – II ) Plot no. 164, C-3, Ind. Area – Pithampur, Distt. – Dhar (M.P.)**

The case was recommended by the SEAC in the 82nd meeting and has been send back by SEIAA for clarification on the following query – 'The process shall generate SPM, PM, SO2 and NOx, comments of SEAC on whether these emissions comes under toxic category or not is desired by the SEIAA. SEIAA also desires to know that how the

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criteria of category is fulfilled by the project.'
The matter was re-examined by the SEAC in view of the comments of SEIAA. The generation of SPM, PM, SO2 and NOx does not determine category of the project as ' toxic' or 'non- toxic' as these are the general emissions expected to emit from burning of fuels in any process. Under the category 'Secondary Metallurgical Processes' the projects have been categorized as ' toxic' or 'non- toxic' based on the process. The processes involving use of metal scrap containing non-ferrous metals (heavy metals) and expected to generate toxic and heavy metal are covered under the ' toxic' category.

The industry under discussion falls under the 'B' Category and is within the jurisdiction of SEIAA on basis of following facts:

- The industry is using SS-billets; the process basically consists of selecting billets of correct steel composition, heating the billets in the Reheating Furnace to a temperature of 1200 deg C suitable for hot rolling. The process does not involve emission of toxic and heavy metal.
- No Major stationary source of air pollution is observed as use of CNG has been proposed for Reheating Furnace.

**3. Case No. 609/2010 - Qry -85th SEIAA Meeting dt. 29/02/10**
**M/s ACC Limited, Kymore Cement Works, P.O.- Kaymore, Distt.- Katni (M.P.)**

Issues pertaining to vibrations and probability of cracks in the buildings due to blasting and mining activities have been raised in the public hearing; SEAC is required to give clear cut views on the issues.

The matter was discussed by the SEAC in view of the site-visit conducted by the sub-committee. SEAC is of the view that no damages to the properties from vibrations were noticed at site and nearby area during inspection. The response received from the PP in this context is satisfactory. Hence committee project is again forwarded to SEIAA with earlier recommendation intact. Following additional special condition may be laid down:

- The blasting operations in mining should be carried out only by a team of experts in a controlled manner following all the norms for safety.

**4. Case No. 610/2010 Qry - 85th SEIAA Meeting dt. 29/02/10**
**M/s ACC Limited, Kymore Cement Works, P.O.- Kaymore, Distt.- Katni (M.P.)**

Issues pertaining to vibrations and probability of cracks in the buildings due to blasting and mining activities have been raised in the public hearing; SEAC is required to give clear cut views on the issues.

The matter was discussed by the SEAC in view of the site-visit conducted

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by the sub-committee. SEAC is of the view that no damages to the properties from vibrations were noticed at site and nearby area during inspection. The response received from the PP in this context is satisfactory. Hence committee project is again forwarded to SEIAA with earlier recommendation intact. Following additional special condition may be laid down:

The blasting operations in mining should be carried out only by a team of experts in a controlled manner following all the norms for safety.

**5. Case no. 614/2010- M/s JKM Investment (P) Ltd. MR-10, Near toll tax gate Village- Kumedi, P.O. Bhawrasla, Tehsil- Sawner, District- Indore (M.P)** - *'Prem Shanti Residency, Opposite to JKM Investment (P) Ltd. Khasra No. 57,59/1 Village- Kumedi, P.O. Bhawrasla, Tehsil- Sawner, District- Indore (M.P) – township project in 7 Acres land.*

The case was presented and discussed in detail in the 79th SEAC meeting dated 02/09/2011, whereby committee has asked the proponent for submission of reply with supporting documents to the following queries:

- *Land diversion letter issued from the competent authority for all pieces of the land included in the project with statement of the same.*
- *Notarized copy*
- *Permission from concerned agency for fulfillment of required quantity water.*
- *Part of land in the NE corner has to be covered under Green area; accordingly plan and commitment to be submitted.*
- *MSW management with necessary permission from the Indore Municipal*
- *Corporation to be obtained and submitted.*
- *Plan to dispose the excess treated waste water to be submitted.*

Project proponent has submitted repose to the above queries along with the supporting documents. After examination of the case committee was satisfied with the EMP and other submissions in the project. The project site appears to be suitable for the project. Hence committee decided to recommend the case for grant of prior environmental clearance subject to the following special conditions:

1. The STP as proposed has to be installed along with the other construction activities. As claimed the BOD reduction of 90% has to be ensured through out. Any item requiring replacement in the supplied STP has to be provided by the supplier.
2. Provision for power back-up has to be kept exclusively to ensure uninteruptted STP operations.
3. PP shall promote schemes for conservation of water in such a way that the fresh water demand shall not go beyond 132 KLD.
4. All sanitary fittings, pipelines etc. used in the project shall be of premium quality conforming the norms to avoid wastage of water through leakages.
5. Provisions for door to door collection, designated collection / segregation points

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and pucca platform for MSW storage area should made in the premises. The final disposal of MSW shall be made at the designated site of Municipal Corporation as per the letter no. 3977 dot. 27/02/2012.

6. Directions issued by MoEF regarding maintaining R.O.W of the approach road have to be followed.
7. Play space shall be provided for the children within the premises of the proposed township.
8. The construction site shall be provided with adequate signage and barricades of at least 3 m height on its periphery.
9. 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.
10. All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
11. 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.
12. 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.
13. Vehicles hired for bringing construction material at site should be in good conditions and conform to applicable air and noise emission standards and should be operated only during non-peak hours.
14. 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- mix concrete should be used as far as possible.
15. Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
16. Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
17. Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
18. Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
19. The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.
20. Environment Management Cell shall be formed, which will supervise and monitor the Environment related aspects of the project during construction and

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operational phases in addition to observance of Madhya Pradesh Building and other Construction Workers Rules.

21. The applicant shall install and operate their own sewage treatment plant (STP) as per the details submitted to the SEAC to treat the generated sewage (171 KLD). 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.
22. Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
23. Dual plumbing system as proposed shall be adopted for the re-use of treated waste water.
24. 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.
25. 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.
26. The green belt along the periphery of the plot shall be provided at least having three tiers of the trees of local species as per the plan submitted. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
27. The applicant shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.
28. The applicant shall install the electric utilities / devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
29. The energy audit shall be conducted at regular interval for the project and the recommendations of the Audit report shall be implemented with spirit.
30. The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
31. The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose. Further, the applicant shall carry out tree plantation activity and shall plant and maintain 1000 trees at an appropriate area in the town in consultation with the Municipal Corporation and local authorities within a period of 5 years.
32. 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

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deployed to guide the visitors for parking and helping the senior citizens and physically challenged people.

33. Common utilities like drinking water facility, Toilets etc. shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.
34. 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.
35. 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.
36. Training to the staff for the first aid and fire fighting along with regular mock drill shall be made an integral part of the disaster management plan of the project.
37. 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.
38. Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
39. Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning.
40. Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project.

## 7. Case no. 444/2009 74th SEIAA Meeting dt. 01/12/11

**M/s Amrapali Homes Project Pvt. Ltd. near IIM Indore, Rau Pithampur Road, Indore (M.P.)**

The commitment letter from IMC was submitted by the PP regarding supply of water. SEIAA has noticed that the same is fake, there after a show-cause was issued to the PP in this context. The reply submitted by the PP has been forwarded to SEAC for comments.

Vide their reply the proponents have revealed their innocence in the matter. However, it is also a fact the said paper has been received at SEAC.

At this point of time, Committee is of the view that prior EC was granted to the project in October 2010 based on several merits including ensured water supply for the project. Hence, it is possible that by now the project must have been completed or near to completion also there is possibility that properties in the project might have been sold / transferred to multiple owners.

Thus PP may be asked to submit the status of project on the points

mentioned below:

- Stage of construction.
- Status of Registration / Transfer of houses / plots to various purchasers.
- How water supply is being maintained in the project for various dwellers (if any).

Reply to above points may be obtained from the PP along with the supporting documents; thereafter decision may be taken in the matter. Meanwhile, original file of the project may be called from the SEIAA.

## 8. Case no. 122/2008 SEAC Qry- 51st Dt. 23/03/10

**M/s Balaji Stone Lime company, Surendra Kumar Agarwal, Partner S.S. Balagi Limestone Company, Lalpur, Burhar, Distt-Shahdol. -** Lime stone mine at Village-Jhinna, Tehsil- Amarpatan Distt. Satna (M.P.) Mining lease area 9.5 Ha. 15000 MT/Y.

- *Mining Plan duly approved by the IBM to be submitted.*
- *NOC from 'Gram Sabha'. .*
- *Declaration from the PP and the consultant regarding use of authentic data / facts /figures in the EIA /EMP to be furnished.*
- *All chemical analyses report from approved laboratory in original format. The chemical analyses should incorporate method of analyses, instruments used and the details of standards used. The date and time of sampling should also be mentioned in the report. Air quality monitoring from approved lab has to be furnished.*
- *Written commitment for fulfillment of the public hearing issues to be submitted.*
- *Use of Solar energy for utilities has to be explored and implemented.*
- *Plan with commitment for plantation in 33% of project area within lease period to be submitted. Map showing green belt to be submitted.*
- *Impact study on river and local nalla due to OB has to be conducted and submitted.*

Reply to the above queries was submitted by the proponent in the 51st meeting of SEAC dot. 23/03/2010 the only document left for submission was NOC from 'Gram Sabha'. The NOC from the Gram Sabha has been submitted by the proponent the same was examined by the committee in this meeting. The presentation and detailed discussion on the project was made in the 44th SEAC meeting dated 23/12/2009 followed by the query response discussion in 51st meeting dot. 23/03/2010. Based on the above committee decided to recommend the case to SEIAA for grant of prior environmental clearance subject to the following special conditions:

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

1. River Son is reported to be 5 km from the project site; provisions should be made to prevent the run-offs from the project site into the river.
2. Water consumption shall not exceed 6.5 KLD.
3. CSR activities and budgetary provisions submitted by the PP in view of public hearing should be implemented.
4. The lease area boundary shall be fenced from all sides to avoid the entry of animals into the mining area.
5. Adequate water sprinkler system shall be installed in the region to prevent fugitive emissions.
6. Movement of the heavy-vehicles should be restricted from the near by villages.
7. Garland-drain shall be constructed to maintain zero discharge from the mining lease area into the nearby water bodies.
8. Safe blasting shall be carried out in presence of experts as per the prescribed norms.
9. At least 33% of total plot area should be planned for plantation as per the proposal submitted.

## 9. Case no. 485/2009 SEAC Qry- 89th dated 14/02/2011.

**M/s S.N. Sunderson & Co. ,Jabalpur Road , Bargawan,Distt-Katni- (M.P)**

*Amheta limestone & Dolomite mine 9.86 ha. at Village - Amheta, Teh. - Vijayraghogarh, Distt. - Katni- M.P.*

The presentation and detailed discussion on the project was made in the 80th meeting dated 03/09/2011 followed by the query response discussion in 89th SEAC meeting dated 14/02/2011. The analyses reports submitted by the proponent were to be submitted in original format of approved laboratory the same was submitted by the PP in this meeting. The EIA / EMP and other submissions in the project were found satisfactory hence based on the above committee decided to recommend the case to SEIAA for grant of prior environmental clearance subject to the following special conditions:

1. Water consumption shall not exceed 12.0 KLD.
2. Village Ametha is about 700 meters from the site also the highway is about 400 meters; hence proponent is required to carry out dense plantation on boundaries facing village and highway.
3. CSR activities and budgetary provisions submitted by the PP in view of public hearing should be implemented.
4. The lease area boundary shall be fenced from all sides to avoid the entry of animals into the mining area.

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

5. Adequate water sprinkler system shall be installed in the region to prevent fugitive emissions.
6. Movement of the heavy-vehicles should be restricted from the near by villages.
7. Garland-drain shall be constructed to maintain zero discharge from the mining lease area into the nearby water bodies.
8. Safe blasting shall be carried out in presence of experts as per the prescribed norms.
9. At least 33% of total plot area should be planned for plantation as per the proposal submitted.

**10. Case no. 619/2010** **SEAC Qry- 89th dated 14/02/2011.**

**M/s KJS Cement, Village –Amilia – Lakhwar,Teh. - Maihar, Distt- Satna (M.P) Pin - 485771** *Bhatia Limestone Mine at Vill. - Bhatia, Area-10.431 ha. Capacity- 0.60 lac TPA Teh.Maihar,Distt.- Satna (M.P.)*

The presentation and detailed discussion on the project was made in the 83rd meeting dated 08/11/2011 followed by the query response discussion in 89th SEAC meeting dated 14/02/2011. Proponent was asked to submit the mode of transport of mineral and transportation route, the same was submitted and placed before the committee. The EIA / EMP and other submissions in the project were found satisfactory hence based on the above committee decided to recommend the case to SEIAA for grant of prior environmental clearance subject to the following special conditions:

1. Water consumption shall not exceed 11.0 KLD.
2. Bakali Nalla flowing in West of the site is reported to be 500 meters; protection measures should be taken to avoid any run-offs from the site into the nalla.
3. CSR activities and budgetary provisions with special reference to Bhatia Village and surrounding area submitted by the PP should be implemented.
4. The lease area boundary shall be fenced from all sides to avoid the entry of animals into the mining area.
5. Adequate water sprinkler system shall be installed in the region to prevent fugitive emissions.
6. Movement of the heavy-vehicles should be restricted from the near by villages.
7. The approach roads from the main road p to the site should be made pucca or efficient water sprinkling system should be installed to prevent fugitive emissions from transport.
8. Garland-drain shall be constructed to maintain zero discharge from the mining lease area into the nearby water bodies.

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| (A.P.Srivastava) Member SEAC | (Shri V.R. Khare) Member SEAC | (R.K. Jain) Member Secretary | |

9. Safe blasting shall be carried out in presence of experts as per the prescribed norms.
10. At least 33% of total plot area should be planned for plantation as per the Plantation scheme with species, schedule and budgetary provisions.

## 11. Case no. 649/2011 SEAC Qry- 84th dated 09/11/2011.

**Smt. Omvati Patidar, M/s IBD Universal Pvt. Ltd., 74, Zone-II, M.P. Nagar, Bhopal (M.P.) - 11** *Proposed residential project IBD King's Park, Pat. Halka no. 4, Khasra No. 496/150 Village Bawadia Kalan, Tehsil – Huzur Distt. – Bhopal (M.P.)* ***Total Land Area – 5.92 Acres Build- Up Area 29683.56 Sq.mfor Residential Building For Building Construction.***

The case was presented and discussed in detail in the 84th SEAC meeting dated 09/11/2011, whereby PP was asked to submit response to the following queries with supporting documents:

1. *Source of water for the Construction & Operation phase for the project to be submitted along with the permission from competent authority.*
2. *Proposed extra preventive measures to prevent pollution in the river.*
3. *Mode of collection and disposal of MSW to be furnished with copy of agreement with Municipal Corporation.*
4. *HFL of river Kaliasote in the region.*
5. *Revised lay out plan showing locations of STP, Collection bins of MSW, tube-well and water harvesting system.*
6. *Details of plan for slope adjustment of the plot.*
7. *Measures proposed to avoid disturbances in adjacent school due to construction activity, traffic etc.*
8. *Water balance has to be re-checked in accordance to the application.*
9. *Proposal for use of solar energy in street lighting etc.*
10. *Copy of rules / guidelines (followed by the concerned govt. agency while granting permissions) in context to construction of buildings along water bodies to be furnished.*

PP has submitted satisfactory reply to the above queries. The EMP and other submissions made by the PP were found to be satisfactory by the committee. A field visit to the site was also carried out by the sub-committee to ensure the site suitability with respect to the near by river. Based on the submissions of the PP and the site visit report committee decided to recommend the project for grant of prior environmental clearance subject to the following special conditions:

- 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.
- STP has to be provided towards 'Northern' boundary of the plot at far most point from the river side.

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| (A.P.Srivastava) Member SEAC | (Shri V.R. Khare) Member SEAC | (R.K. Jain) Member Secretary | |

- Back of the river has to be developed properly through land-scaping and stepped up towards the project.
- No drain i.e. storm water or otherwise should be towards the river.
- Clear 30 meters set-back from the edge of the land adjoining the river should be kept open.
- The STP as proposed has to be installed along with the other construction activities. As claimed the BOD reduction of 90% has to be ensured through out. Any item requiring replacement in the supplied STP has to be provided by the supplier.
- Provision for power back-up has to be kept exclusively to ensure uninteruptted STP operations.
- PP shall promote schemes for conservation of water in such a way that the fresh water demand shall not go beyond 278 KLD.
- All sanitary fittings, pipelines etc. used in the project shall be of premium quality conforming the norms to avoid wastage of water through leakages.
- Provisions for door to door collection, designated collection / segregation points and pucca platform for MSW storage area should made in the premises. The final disposal of MSW shall be made at the designated site of Municipal Corporation.
- Directions issued by MoEF regarding maintaining R.O.W of the approach road have to be followed.
- Play space shall be provided for the children within the premises of the proposed township.
- The construction site shall be provided with adequate signage and barricades of at least 3 m height on its periphery.
- 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.
- All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
- 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.
- 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.
- Vehicles hired for bringing construction material at site should be in good conditions and conform to applicable air and noise emission standards and should be operated only during non-peak hours.

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| **Chairman** | **Member SEAC** | **Member SEAC** | **Member SEAC** |

| (A.P.Srivastava) | (Shri V.R. Khare) | (R.K. Jain) |
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| **Member SEAC** | **Member SEAC** | **Member Secretary** |

- 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- mix concrete should be used as far as possible.
- Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
- Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
- Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
- The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.
- 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.
- The applicant shall install and operate their own sewage treatment plant (STP) as per the details submitted to the SEAC to treat the generated sewage (171 KLD). 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.
- Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
- Dual plumbing system as proposed shall be adopted for the re-use of treated waste water.
- 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.
- 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.
- The green belt along the periphery of the plot shall be provided at least having three tiers of the trees of local species as per the plan submitted. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
- The applicant shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.
- The applicant shall install the electric utilities / devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
- The energy audit shall be conducted at regular interval for the project and the

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| (A.P.Srivastava) Member SEAC | (Shri V.R. Khare) Member SEAC | (R.K. Jain) Member Secretary |
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recommendations of the Audit report shall be implemented with spirit.

- The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
- The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose. Further, the applicant shall carry out tree plantation activity and shall plant and maintain 1000 trees at an appropriate area in the town in consultation with the Municipal Corporation and local authorities within a period of 5 years.
- 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.
- Common utilities like drinking water facility, Toilets etc. shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.
- 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.
- 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.
- Training to the staff for the first aid and fire fighting along with regular mock drill shall be made an integral part of the disaster management plan of the project.
- 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.
- Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
- Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning.
- Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project.

## 12. Case no. 512/2010 SEAC Qry- 87th dated 07/01/2012.

**M/s Advance Medical Science and Education Society, 136,N.H.-5, Railway Road NIT, Faridabad - (U.P.). Project:** Hospital and Medical College Total Plot Area – 25 Acres .at Village - Inayatpur, Teh.-Huzur, Distt.-Bhopal (M.P.) *Total Built-up Area – 99694 sq mt.*

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The case was presented and discussed in detail in the 87th SEAC meeting dated 07/01/2012, whereby PP was asked to submit response to the following queries with supporting documents:

- *A natural nalla flows from center of the proposed site – Catchment of this stream and nalla water use has to be submitted along with protection measures.*
- *Construction work has been started with obtaining EC, this is violation of EIA Notification hence an apology has to be submitted after passing the resolution in the Board of Directors. State Pollution Control Board shall initiate the necessary action against the PP in this regard.*
- *School is operating on the northern side of the site- protection measures to avoid pollution and accidents during construction as well as operation phase.*
- *Land diversion document have to be submitted.*
- *Permission for water supply has to be obtained and submitted from Local Authority.*
- *Conceptual plan has to be submitted.*
- *Details of ETP for treatment of BMW to be submitted with drawing and design.*
- *Details of STP for treatment of waste water not submitted.*
- *Disposal plan for MSW and BMW not provided in the proposal.*
- *Detail lay out with area statement showing locations of STP, ETP, MSW / BMW storage area, Rain-water harvesting systems, tube-wells, etc. has not been provided.*
- *Base line environmental quality of the area has not been provided.*
- *Catchments of the proposed site have to be furnished with supporting documents, such as contour map, water shade map etc.*

PP has submitted satisfactory reply to the above queries. The EMP and other submissions made by the PP were found to be satisfactory by the committee. It was reported by the PP that about 10% of the total construction has already been made on the site. Meanwhile, a complaint pertaining to passage for the near by farmers was also received by the committee. Hence a field visit to the site was carried out by the sub-committee to evaluate the quantum of construction already in place and to resolve the matter regarding passage.

The visit report is yet to be discussed by the committee hence the case was deferred till next meeting.

**13. Case No. 631/2011- Mr. Sunil Moolchandani, M/s Chinnar Reality Pvt. Ltd. " Chinnar House" 231, Zone-II, M.P. Nagar, Bhopal (M.P.)** Group Housing Project at Ratanpur Sadak Khsara No. 1051, 1052, 1053/1, 1053/2, 1054/2, 1055/2, 1055/3, 1059/1, 1059/2, 1060, 1061,1062, 1063, 1064, 1065, 1070,1071,1073,1074,1075,1096 Khsara No. 209, 210, 211 ,212, 213, 214, 215, 216,217,218, 219, 220, 221, 222, 223, Teh.-Huzur,Distt. – Bhopal (M.P.) Total Land Area – 11.3620 Ha Total Built Up Area – 99,710.98 $m^2$

The case was presented before the committee in the 81st meeting of SEAC, whereby the PP was asked to submit reply to the following queries:

1. *Re-assessment of water consumption, waste water generation with water balance*

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*sheet.*

2. *Proposed STP is based on Photo-chemical oxidation technology, as the technology is new PP has to submit approval from CPCB / Competent authority regarding its feasibility.*
3. *Concrete proposal for disposal of MSW has to be submitted.*
4. *Permission from CGWA for abstraction of ground water to be submitted.*
5. *Exact distance from Railways boundary to be provided along with the NOC from railway department.*
6. *Total area reserved for green area development has to be furnished with statement of total area.*
7. *Revised EMP as discussed in meeting to be furnished.*
8. *Undertaking stating that ECBC guidelines shall be followed.*

The reply to above queries was submitted by the PP & the same was placed before the committee in the 89th meeting dt. 14/02/2012. Committee was satisfied with query response and various submissions made by the PP. However, the examination of the proposed STP it was observed that the same is based on Photo-Oxidation principle which being comparative new technology needed further clarification and explanation. Regarding feasibility of the proposed STP, sub-committee visited the sites in Pune where similar STP is operating. Committee is of the opinion that the proposed STP has certain limitations such as it requires diluted sewage. The supplier of the STP has informed that the installation of STP is normally done after feasibility study and the modifications are done as per the requirements. Matter was discussed with the PP also. Proponent has accepted that the STP for the project shall be installed only after ascertaining its feasibility. In view of above it was decided to allow such STP only after required modifications or otherwise PP shall install conventional STP based on activated sludge process. In light of above committee decided to recommend the case for grant of prior environmental clearance subject to the following special conditions:

- STP for the project shall be installed only after ascertaining its feasibility & required modifications (if necessary). In case the proposed STP is not feasible the PP should install conventional STP based on activated sludge process to meet the prescribed quality of treated sewage.
- The STP has to be installed along with the other construction activities. As claimed the BOD reduction of 90% has to be ensured through out. Any item requiring replacement in the supplied STP has to be provided by the supplier.
- Provision for power back-up has to be kept exclusively to ensure uninteruptted STP operations.

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- PP shall promote schemes for conservation of water in such a way that the fresh water demand shall not go beyond 571 KLD and quantity of sewage shall not exceed 629 KLD.
- All sanitary fittings, pipelines etc. used in the project shall be of premium quality conforming the norms to avoid wastage of water through leakages.
- Provisions for door to door collection, designated collection / segregation points and pucca platform for MSW storage area should made in the premises. The final disposal of MSW shall be made at the designated site of Municipal Corporation.
- Directions issued by MoEF regarding maintaining R.O.W of the approach road have to be followed.
- Play space shall be provided for the children within the premises of the proposed township.
- The construction site shall be provided with adequate signage and barricades of at least 3 m height on its periphery.
- 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.
- All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
- 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.
- 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.
- Vehicles hired for bringing construction material at site should be in good conditions and conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 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- mix concrete should be used as far as possible.
- Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
- Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
- Structural design aspects in accordance to the seismic zone shall be strictly adhered to.

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- The construction materials and debris shall be properly stored and handled to avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.
- 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.
- The applicant shall install and operate their own sewage treatment plant (STP) as per the details submitted to the SEAC to treat the generated sewage (171 KLD). 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.
- Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
- Dual plumbing system as proposed shall be adopted for the re-use of treated waste water.
- 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.
- 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.
- The green belt along the periphery of the plot shall be provided at least having three tiers of the trees of local species as per the plan submitted. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
- The applicant shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.
- The applicant shall install the electric utilities / devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
- The energy audit shall be conducted at regular interval for the project and the recommendations of the Audit report shall be implemented with spirit.
- The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
- The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose. Further, the applicant shall carry out tree plantation activity and shall plant and maintain 1000 trees at an appropriate area in the town in consultation with the Municipal Corporation and local authorities within a period of 5 years.
- Traffic congestion near the entry and exit points from the roads adjoining the

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| (A.P.Srivastava) Member SEAC | (Shri V.R. Khare) Member SEAC | (R.K. Jain) Member Secretary |
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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.

- Common utilities like drinking water facility, Toilets etc. shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.
- 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.
- 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.
- Training to the staff for the first aid and fire fighting along with regular mock drill shall be made an integral part of the disaster management plan of the project.
- 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.
- Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
- Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning.
- Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project

**14. Case no. 611/2010 - Shri Sudarshan Jhawar, 103 Ground floor, Parswanath Bhawan, Jhawar Estate, Gandhi Road, Gwalior (M.P.). -** *Mantri City- Integrated Township (Area Development cum construction) at Village- Sujana & kulaith Teh. & Distt. - Gwalior (M.P) with total area 332438.9 m2 & built - up area 113685.85 m2 and land development area - 84483.46 m2.*

The case was presented before the committee in the 74th meeting dated 5th January 2011, whereby the PP was asked to submit reply with supporting documents to the queries raised by the committee members. The replies submitted by the PP were discussed in the 77th meeting dated 25/08/2011, 82nd meeting dated 13/10/2011 and 87th

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meeting dated 9/01/2012. Beside the replies submitted by the PP the complaint forwarded by the SEIAA was also discussed in the above meeting and no substance was found in the complaint. Ultimately, the PP was required to make a presentation on STP and MSW management. It was submitted by the PP earlier that the sewage shall be treated in the STP proposed by SADA; later PP submitted a proposal for separate STP for the proposed township. PP and his consultant presented the salient features of the STP but could not respond the query made by the members hence PP was asked to submit a revised STP plan at the earliest.

SADA has provided consent letter for separate STP for the proposed township. PP has proposed that the MSW shall be disposed off in the facility of Nagar Nigam Gwalior on payment basis. The response to various queries was submitted by the PP and examined by the committee. The proposed EMP was found to be satisfactory. Regarding feasibility of the proposed STP, sub-committee visited the sites in Pune where similar STP is operating. Committee is of the opinion that the proposed STP has certain limitations such as it requires diluted sewage. The supplier of the STP has informed that the installation of STP is normally done after feasibility study and the modifications are done as per the requirements. Matter was discussed with the PP also. Proponent has accepted that the STP for the project shall be installed only after ascertaining its feasibility. In view of above it was decided to allow such STP only after required modifications or otherwise PP shall install conventional STP based on activated sludge process. In light of above committee decided to recommend the case for grant of prior environmental clearance subject to the following special conditions:

- As the project is part of proposed counter magnet city of SADA (which is under consideration for prior EC with SEIAA) proponent shall have to comply with the all applicable conditions laid down in the prior EC of SADA.
- Prior to start of construction activity NOC from forest department shall be obtained.
- STP for the project shall be installed only after ascertaining its feasibility & required modifications (if necessary). In case the proposed STP is not feasible the PP should install conventional STP based on activated sludge process to meet the prescribed quality of treated sewage.
- The STP has to be installed along with the other construction activities. As claimed the BOD reduction of 90% has to be ensured through out. Any item requiring replacement in the supplied STP has to be provided by the supplier.
- Provision for power back-up has to be kept exclusively to ensure uninteruptted STP operations.
- PP shall promote schemes for conservation of water in such a way that the fresh

water demand shall not go beyond 571 KLD and quantity of sewage shall not exceed 629 KLD.

- All sanitary fittings, pipelines etc. used in the project shall be of premium quality conforming the norms to avoid wastage of water through leakages.
- Provisions for door to door collection, designated collection / segregation points and pucca platform for MSW storage area should made in the premises. The final disposal of MSW shall be made at the designated site of Municipal Corporation.
- Directions issued by MoEF regarding maintaining R.O.W of the approach road have to be followed.
- Play space shall be provided for the children within the premises of the proposed township.
- The construction site shall be provided with adequate signage and barricades of at least 3 m height on its periphery.
- 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.
- All topsoil excavated during construction activities should be stored for use in horticultural / landscape development within the project site.
- 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.
- 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.
- Vehicles hired for bringing construction material at site should be in good conditions and conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 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- mix concrete should be used as far as possible.
- Water demand during construction should be reduced by use of curing agents, plasticizers and other best practices.
- Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- Fly ash should be used as building material in the construction as per provisions of Fly Ash Notification under EPA.
- Structural design aspects in accordance to the seismic zone shall be strictly adhered to.
- The construction materials and debris shall be properly stored and handled to

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avoid negative impacts such as air pollution and public nuisances by blocking the roads and public passages.

- 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.
- The applicant shall install and operate their own sewage treatment plant (STP) as per the details submitted to the SEAC to treat the generated sewage (171 KLD). 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.
- Best available technology (BAT) such as Ultra violet radiation shall be used for disinfection of sewage before reuse / recycle / discharge.
- Dual plumbing system as proposed shall be adopted for the re-use of treated waste water.
- 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.
- 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.
- The green belt along the periphery of the plot shall be provided at least having three tiers of the trees of local species as per the plan submitted. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.
- The applicant shall explore the application of solar energy & it shall be incorporated for illumination of common areas, lighting of internal roads and passages in addition to solar water heating, if any.
- The applicant shall install the electric utilities / devises, which are energy efficient and meeting with the Bureau of Energy Efficiency norms, wherever applicable.
- The energy audit shall be conducted at regular interval for the project and the recommendations of the Audit report shall be implemented with spirit.
- The area earmarked for the parking shall be used for parking only. No other activity shall be permitted in this area.
- The area earmarked as green area shall be used only for greenbelt and shall not be altered for any other purpose. Further, the applicant shall carry out tree plantation activity and shall plant and maintain 1000 trees at an appropriate area in the town in consultation with the Municipal Corporation and local authorities within a period of 5 years.
- Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Necessary signage including continuous

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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.

- Common utilities like drinking water facility, Toilets etc. shall be provided on each floor with adequate signage thereof. Adequate distance shall be maintained between the drinking water and toilet blocks.
- 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.
- 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.
- Training to the staff for the first aid and fire fighting along with regular mock drill shall be made an integral part of the disaster management plan of the project.
- 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.
- Roof should meet regulatory requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirements.
- Use of glass shall be minimal to reduce the electricity consumption and load on air conditioning.
- Ozone Depleting Substances (Regulation & Control) Rules shall be followed while designing the air conditioning system of the project

Meeting ended with thanks to the chair.

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