MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

138th MEETING 25th July 2013

The meeting conducted on 25th July 2013 was presided over by Shri S.C. Jain. Following members attended the meeting-

1. Shri K.P. Nyati, Member
2. Dr. Mohini Saxena, Member
3. Prof. V. Subramanian, Member
4. Shri A.P. Srivastava, Member
5. Shri V.R. Khare, Member and

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

Consideration of the Projects – Following projects were taken up for deliberations one by one:-

1. **Case No. – 1522/2013 M/s Fortune Builders, Partner Shri Ajay Mohagaonkar and Shri Sameer Gupta, Fortune House, 157, Zone-I, M.P. Nagar, Bhopal – (M.P.) - 462018** *Fortune Signature" at Survey No. – 147/7/1ka, 147/7/1/kha, 147/5/3, 95/1/kha/2, 147/7/3, 147/7/4, 147/7/5, 147/9/kh, 147/9/kha, 147/9/jha, 147/9/1/1/1, 147/9/1/1/2,147/9/1/1/8, 147/7/2, Village- Bawadia Kalan, Tehsil - Huzur, Distt. – Bhopal (M.P.)* ***Total Land Area – 30713.0 sq.mt., Total Built Up Area – 45383.72 sq.mt.***
   [Env. Consultant : Kadam Env. Con., Delhi]

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

2. **Case No. – 1524/2013 M/s Fortune Builders, Partner Shri Ajay Mohagaonkar and Shri Sameer Gupta, Fortune House, 157, Zone-I, M.P. Nagar, Bhopal – (M.P.) - 462018** *Proposed Township Project "Fortune Kasturi" at Khasra No. – 8/1/13K, 8/2/1/1, 11/1/2, Village- Jatkhedi, Tehsil - Huzur, Distt. – Bhopal (M.P.)* ***Total Plot Area – 18285.73 sq.mt., Proposed Built Up Area – 29654.033 sq.mt.*** **Env. Consultant : Kadam Env. Con. ,Delhi**

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

3. **Case No. - 633/2011 Mr. D.K. Mittal (Location Head), M/s Trident Group, Hoshangabad Road – Budhni, Tehsil – Budhni, Distt. – Sehore (M.P.)-** Captive Thermal Power Plant of 2x30 M W Existing Trident Group Complex at Village – Budni, Distt. Sehore (M.P.) [Earlier discussed in the 99th SEAC meeting dated 24/07/2012] SEAC in 116th meetings dated 15th January 2013'**. Env. Consultant: Creative Enviro Services, Bhopal (M.P.) <u>For – P. H. discussion</u>**

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Back Ground of Proposal

- This is a project consisting captive production of thermal power from coal. The EIA report submitted by the PP was forwarded by SEIAA to SEAC for appraisal.
- The EIA report was presented for appraisal in 99th meeting of SEAC dated 24.07.2012. The committee has appraised the technical aspect of the project and environmental impacts and mitigation measures given for the various components. The case was again discussed in its 116th meeting dated 15.01.2013 to discuss the requirement of public hearing for the subject proposal.
- Though the project has been proposed at designated industrial area, committee was of the opinion that the public hearing has to be conducted because the Ind. Area was notified after 2006 and that too for the group specific.
- As per the direction of the SEAC, PP applied for the public hearing and it was conducted on 30.04.2013 in the presence of ADM, Sehore and Regional Officer of MP Pollution control board.
- The details of the public hearings were presented before the committee in this meeting:

Salient Features of the Project

Name of the Project	Captive Power Plant of 2X30 MW
Location of the Plant	In the existing boundary limit of the Trident Group Complex at Khasara No. 36/1, 36/2, 36/4, 36/5, 36/6, 40/1, 40/2, 40/3, 39/1, 39/2, 41/1, 41/2, 42, 43 , Budhani Industrial Area, Dist- Sehore (MP)
Total land	Total Land : 600 Acres Reserved for power plant – 95 Acres
Fuel proposed to be used	Coal
Cost of Project	Rs 377.87 Crores
Installation	Power Generation Unit for Captive Use
Type of Fuel	Coal
Water Requirement	6600 KL/ day
Source of Raw water	Water reservoir and River Narmada
Major Equipments	Boiler and Turbo Generator
Capacity of Boiler	150 TPH at 105 ata working pressure
Type of Boiler	Circulating Fluidized Bed Combustion
Stack Height	100m
Rated capacity of Turbo-generator	60 MW
Pollution control equipment	Hybrid ESP and Dust Extraction Filters
Level of particulate Matter after ESP	< 50 mg/ NM^3
Cost of Pollution Control Equipments	16.03 Crore

Total Employment generation	44 persons
Ash Generation	205 TPD
Silo Capacity	1000 M^3

Details of Public hearing

a. Shri Abhay Ram Meena & Puran singh Meena & others have raised the issue of adverse effect on environment, crops, human beings and animals – PP has submitted that air pollution control system such CFBC type of boiler stack of 100 mt height with ESP system, Water sprinklers and pulse jet dust collector, Bag filter the TPM etc. shall be provided. Greenbelt (100-m wide towards village area and river course, 50 to 100- m wide towards nalla area has also been proposed in this regard. It was also reported by the PP that Total 200 acres land is proposed for green belt development and 45 ha land has already converted as good green belt with about 33,000 number of trees. Total requirement of water for power plant will be 6600 Kl per day and effluent will be generated about 1440 Kl per day. The combined ETP has been planned for TPP and Teri Towel Project. The total capacity of ETP will be 16500 KLD. The reject from filter, softener, DM plant, cooling tower blow down, boiler blow down will be collected in neutralization pit or holding pond. The effluent from the holding pond shall undergo a series of treatment process comprising with homogenization tank, aeration, clarifier, sand filtration, ozonization/ secondary clarifier , sand filter to remove the pollutants. Then the water is sent through ultra filtration afterward to three stage RO, where the output (92%) will be of permeate quality which will be used in process and cooling tower make up and the reject (8 %) from RO will be taken to MEE. The permeate from MEE (95%) will again be used in process and reject (5%) will be send to common disposal site at Pithampur.

b. Satyendra Singh of Budhni – raised the issue of Narbada river pollution and other adverse env. Impacts. PP has submitted that in addition to effective water treatment systems 'zero-discharge condition shall be maintained in the unit to avoid inflow of any stream into any water body. To avoid pollution from ash PP has reported that the common bunker of fly ash will be provided with pulse jet bag filter. Silos of 1000 M^3 and 750 m^3 capacity will be provided for storage of fly ash and bottom ash. In addition to above Rs 5 lacs per annum will be provided for different CSR activities.

Following CSR activities have been reported by the PP:

Existing Programs	**Proposed programs**
Education and Training: • Engaged in local private School development program. • Setting up Takshashila–center of excellence, equipped with modern training facilities (technical & behavioral), where students from various parts of the state as well as from outside undergo special courses to get suitable employment. • Company has adopted ITI Nasrullaganj, Dist. Sehore under the PPP scheme of	**1. Infrastructure Creation** like drinking Water Infrastructure for the local residents**,** Irrigation Infrastructure such as construction of check dams/ ponds etc. Sanitation Facilities- Such as Construction of closed drainage lines with proper disposal facilities. **II. Other infrastructure:** Material support for construction of houses under IAY and Street lights provision. **III. Education Program:** • Provision of individual kits (bags, uniform)

Govt. for skill development. • Anavaran- 6 months program exclusively designed for the 18 students of Electrical batch from ITI Nasrullaganj. These students are residing within Trident complex for 6 months where they underwent on-the-job training as well as their studies as per the curriculum and get stipend of Rs. 5000 each. • Free evening classes for underprivileged • Education Allowance and loans to workers **Health** • The company has planned setting up of a 25 – bed hospital in association with a renowned hospital, equipped with a modern operation theatre at Budni. • Arrangement of own fire tender/equipment to ensure safety of members • Group medical insurance policy • Provision of facilities at deaf/dumb school near Hoshangabad. • Organization of free medical healthcare camps at regular intervals. • Blood donation camps for the needy persons by the employees of the company. • Adoption of Aangan Badies located in the area. **Employee welfare** • Group personal accident insurance policy • Group medi-claim insurance policy • Group insurance • Group insurance in lieu of EDLI Scheme • Employees Provident Fund Scheme • Gratuity scheme • Loan scheme • Hostel facilities/Residential colonies • Mess & Canteen facility at all locations. • A Girls Hostel for 1000 members has been established at Budni.	• Develop volunteers to provide extra tuitions after school hours. • Promotion of science and mathematics clubs in schools. • Provision of transport facilities for secondary and college going students. • Computer and English training courses for secondary school students. • Provision of a scholarship scheme for bright students/ students from marginalized groups • Promotion of good secondary school with school bus facility to a cover a number of villages. • Proposal for setting up Alternative School for drop outs for vocational skills. • Provision of computers in schools. **IV. Health Program:** • Proposal to increase the number of mobile units and also link them with referral facility. • Provision of Group medical insurance • Specific program for respiratory diseases and kidney stone. • Proposal to develop a specific program for health care facilities for elderly persons. **V. Livelihood Program:** • Focus on 2-3 crops for agriculture and horticulture • Focus more on drip/sprinkler irrigation and supply of improved seed varieties. • The fodder supply to cattle in the village, available local fodder, etc. • Development of fodder plots to encourage fodder purchase locally. This would also give additional income to some groups. • Exploration of alternative job options for fishing community.

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Rural development • Village cluster adoption schemes • Maximum Usage of local transportation facilities in logistics management of raw material • To provide direct exposure to farmers, Trident Group arranged visits for farmers in small batches to cotton research stations and KVK's • In addition, Trident Group has an advisory and helping role facilitating financial, technical support to farmers **Women Empowerment Cell – Asmita** • *"Asmita" A Women Empowerment Forum was launched on 3rd October 2008,* Considering the vast talent pool of women in our organization & the need for Mentoring & Empowering Women. • The forum aspires to focus on enhancement of earning ability, health, hygiene, welfare, education, facilitating basic amenities at work place. • By means of Asmita, Special emphasis is being laid on entrepreneurship development of female employees, providing them with avenues of growth. • ASMITA organized free Medical Check up camps in Budni, Sanghera & Dhaula, ensuring good health for members & their families. More than 2000 members & their families have benefited from the camp. A blood donation camp was also organized which saw a huge response from the members. • Around 20% of the members employed with the company are women from nearby villages. • One of company's spinning units is completely managed by women, providing	

them with an equal opportunity • Separate cabs are provided for women operatives. Hostel Facility for female operatives. **Other Initiatives** • Charity/Donation s on regular basis to schools & healthcare institutes • Adoption/Donation towards education of students • Open house sessions for the employees to address to their concerns • Round the clock Ambulance facility • Transport ,Banking & ATM facility near the office premises	

After deliberations committee found that the EIA, EMP, CSR activities and other submissions made by the PP are satisfactory and acceptable, hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. Total water requirement of the project shall not exceed 6600 KLD and total waste-water generation shall be 1440 KLD.
2. Complete treatment system including RO followed by MEE shall be installed before taking up any production and the permeate water from RO and MEE shall be recycled back in process, cooling tower, boiler, ash disposal, coal handling and service water requirements. Thus 'Zero Discharge' condition shall be maintained throughout the year.
3. The raw water requirement for power plant shall be optimized. The COC in cooling system shall be maximized (such as COC=5 to7).
4. Coal stock piles shall be provided with garland drains and appropriate settling tank. Silt traps will be provided in the surface drainage system in the stockpile area.
5. Effluent collection tank shall be lined with suitable media to prevent any seepage into ground to avoid any groundwater contamination.
6. Provision of separate storm water system to collect and store runoff water during rainy season and utilization of the same in the process to reduce the fresh water requirement;
7. Boundary wall / Embankment towards the direction of Narmada River shall be constructed to avoid storm water/ run-offs flow from factory premises.
8. A drain along the boundary wall shall be made, which will join the settling tank to protect the flow of contaminant towards nearby agricultural land.
9. Embankment along the Nalla shall be planned at this stage as spinning unit is in operation.
10. Dense Phase Pneumatic Ash Conveying System shall be installed for handling of fly-ash prior to commencement of production.
11. Fly ash utilization shall be as per the Fly-ash utilization notification 2009 of MoEF.
12. Stack height shall be 100 meters and emission shall not exceed 50 mg/Nm3 at any point of time.

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13. Execution of all the committed CSR shall be taken up in consultation with Gram Sabha & local administration.

4. Case No. – 1688/2013 M/s Land mark Developers (Smt. Madhu Agrawal & Smt. Kamlesh Agrawal Land Owners & Partners), Blooms Academy Campus, Panna Road, Satna (M.P.) – 485001 "CAPETOWN HEIGHTS " of M/s Land Mark Developers *(Smt. Madhu Agrawal & Smt. Kamlesh Agrawal Land Owners & Partners) at Khasra No. – 672/1, 672/2, 673/2/1/2, 674/1/2, 673/2/1/1, 673/2/1/3, 674/1/3, 671 Village – Amaudha Near Blooms Academy, Tehsil – Raghuraj Nagar, Distt. - Satna, (M.P.)* ***(Total Land Area = 15130.0 sq.mt. , Total Built up Area – 30,224.99 sq.mt. (23137.81 sq.mt. + 7087.19 sq.mt.)*** **Env. Consultant: M/s In Situ Enviro Care, Bhopal (M.P.) <u>For – Building Construction.</u>**

This is a building construction project comprising total plot area of 1.5130 ha and total built-up area of 30224.99 m^2. The project requires prior EC before commencement of work at site as per EIA Notification 2006. The application was forwarded by SEIAA to SEAC for appraisal and recommendations. PP and his consultant presented the salient features of the project which reveals following:

The salient features of the project include:

Proposed Built–Up Area:	30244.99 Sq.mt (R-23137.81 Sq.Mt + C-7087.19 Sq.Mt.)
Land Use	Residential & Commercial
Building Height	29.5 m
ROW:	30 m Wide Road
Nearest Fire station:	5.5 Kms
Total Net Fresh Water Demand :	133.5 KL
Municipal Water Supply:	133.5 KLD
STP Capacity :	210 KLD
Solid Waste Generation	1.057 TPD Or Says Approx 1100 kg/day
Power Demand	2056 KVA
Back Up Source	1040 KVA (D.G. Sets – 2 x 200 KVA, 2 x 320KVA)
Total Unit	244 nos.
Type of Unit (Residential)	Number of 1 BHK - 16 Nos. Number of 2 BHK - 44 Nos. Number of 3 BHK - 40 Nos. Number of 4 BHK - 100 Nos. Number of 5 BHK - 20 Nos. Number of EWS - 24 Nos.
Commercial Complex	Commercial Shops, Restaurant, 33 Nos. Apartments
Railway Station	Satna Railway Station – 4.5 Km away from site
Air Port	Rewa Airport– 55.0 Km away from site

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Area statement

S. No.	Description	Area(Sq. M.)	Percentage
1	TOTAL LAND AREA	15130.00	100
2	Green Area	1517.99	10.03
3	Ground Coverage Area	4108.60	27.16
4	M.O.S. & Circulation Area	9503.41	62.81

Source of water supply

The Main source of water supply in operation phase will be Municipal Water Supply. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP.

Residential Water Balance:

S. No.	Item Description	Water Require
1	Domestic Water Requirement	107.0 KLD
2	Flushing Water Requirement	53.5 KLD
3	Landscaping & other uses	40.0 KLD
4	Total Water Demand	200.0 KLD
5	Available Treated Water through STP	135.0 KLD
6	Net Fresh Water	107.0 KLD

Commercial Water Balance:

S. No.	Item Description	Water Require
1	**Domestic Water Requirement**	**26.5 KLD**
2	**Flushing Water Requirement**	**29.0 KLD**
3	**Landscaping & Other uses**	**25.0 KLD**
4	**Total Water Demand**	**80.5 KLD**
5	**Available Treated Water through STP**	**54.0 KLD**
6	**Net Fresh Water**	**26.5 KLD**

S.T.P details

- Treatment Concept : SAFF Based on Preliminary treatment + Aerobic biodegradation treatment followed by tertiary treatment.
- Capacity : 210 KLD
- Operation : 20 Hours

Solid waste

- Total solid waste generated will be around 1.05 TPD
- 100% Door to Door Collection system will be done by the maintenance staff.
- Hand driven carts shall deliver the MSW from residential blocks to storage bins and from storage bins to main waste collection point.
- Each set will have bins of three colors with green bin for biodegradable waste, white for recyclable waste and black for other type of waste.

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- The MSW collection centre will be at the gate of the campus where three covered bins of green, white and black color will be placed for collection from the campus and for final transportation for disposal.

Eco- friendly practices and energy saving measures as proposed by the PP:

- Use of CFL lightings
- Use of solar energy for lighting common areas and for hot water.
- Light fixture with highest utilization factor (range 70-75%)
- All energy efficient appliances like switches, motors etc.
- All areas lighting will be Intelligent type, connected with day light sensors, which will switch on-off.
- Landscape areas & staircase lighting will be used with LED light fixtures which has very low power consumption.
- All electrical loads such as common area internal lighting, lifts, water supply systems, exhaust & ventilation systems, DG sets will be controlled.
- External area lighting will be on 7days/24Hrs. programmable timer to save energy w.r.t. natural sun light.
- By adopting all these methods the energy conservation will be up to 20-25 % rather than using conventional electrical appliances.

Environmental management plan- air

Construction Phase

- Dust control plan
- Regular Maintenance of vehicles
- Proper ventilation system shall be provided to all part of the work areas of site.
- All dust producing construction materials will be transported with proper cover as tarpaulin.
- Regular sprinkling of water shall be done at site for dust suppression.
- Green belt development along road side to attenuate the effect of air pollution will begins from construction phase
- Large leaf plants will be use in tree plantation all around the project site and road side reduces the impact of the air pollution.
- Use of Ready mixed cement
- Reduce on site activities by Off-site fabrication of structural components

Operational Phase

- Green belt along road side in different tiers to attenuate the effect of air pollution
- Provision of signage's for easy circulation of traffic.
- Provision for adequate parking space
- Use of low sulphur diesel for DG set.
- Provision of sufficient stack height for DG set.
- Use of back-up DG sets (acoustic enclosed) during power failure only.
- The green belt will be developed especially around dust generating areas.

Environmental management plan-noise

Construction Phase

- Regular maintenance of construction equipments

- Proper road network has been designed as per the prevailing guidelines for smooth operation of traffic; impact in noise level due to the operational traffic will be negligible.
- Barricading of the construction area with high barrier
- Job Rotation and Hearing Protection for workers

Operational Phase

- The landscape design along the periphery of the plot has been developed to achieve attenuation factor conforming to noise standards.
- The open spaces inside the plot is suitably landscaped and covered with vegetation to reduce the impact of noise.
- Provision of adequate parking space
- Acoustic enclosure for D.G. Set
- Use of D. G. set as alternate power supply in case of power failure which is a rare occurrence in this area.

Environmental management plan- water

Construction Phase

- Leak proof containers for storage and transportation of oil/ grease.
- RMC shall be used.
- Impervious oil/grease handling area.
- Provision of Drinking Water and temporary sanitation facilities for workers.

Operational Phase

- Treatment of sewage on site in STP.
- Use of treated sewage water for Flushing & Landscaping.
- RWH and SWM scheme
- Rainwater from Roof top and terraces will be used for ground water recharging.
- SWM will be done with the help of well planned storm water drainage network as per SMC remarks.
- Minimizing Water Consumption
  - ✓ Use dual flush system, Auto flushing sensors for urinals
  - ✓ Efficient Plumbing Fixtures

Environmental management plan – land

Construction Phase

- Segregation of waste at source
- Construction of temporary soak pits/ septic tank on site
- Reuse of construction debris at the site itself for land leveling
- Effective measures for prevention of leakage of oil

Operational Phase

- Segregation of waste at source
- Waste storage in well-designed containers/ bins
- The sewage sludge from sewage treatment plant will be converted into an odorless soil conditioner and used as manure for gardening purposes.
- Waste storage bins will be provided for wet and dry garbage. The same shall be segregated
- and stored in bins

- Biodegradable and Non-biodegradable solid waste will be collected separately.
- Non-biodegradable and Biodegradable solid waste would be handed over to authorized agency.
- Recyclable inorganic wastes will be sold to authorized vendors for its proper recycling and reuse.
- The collection, transportation, treatment and disposal of MSW Rules.

Cost of environmental management plan

Description	**Capital cost (lac)**	**Running cost (lac/year)**
Air		
Construction Phase	1.0	
Operation Phase		0.4
Noise		
Construction Phase	0.5	
Operation Phase		0.2
Water and Land		
Construction Phase	3.0	
Operation Phase		0.3
Sewage Treatment Plant	23.0	5.3
Rainwater Harvesting & Storm Water Management	2.0	0.4
Solid Waste Management	1.5	0.4
Energy		
Lighting	08	0.6
Biological		
Landscaping	4.0	0.8
Total	**Rs. 43 Lac**	**Rs. 8.4 Lac / Year**

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

- As assured by the PP that no construction has been initiated at site; an affidavit on stamp has to be furnished in this context.

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- Provisions for common meeting / play space shall be provided on appropriate floor of one of the tower – a plan with identification of such floor to be provided.

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

This is a case of building construction comprising total plot area of ***17,435.88 m^2*** and total built-up area of ***30,438.87 m^2***. The project is covered under EIA notification and mentioned at SN 8 (a) of the Schedule of the said notification. Hence requires prior EC from SEIAA before commencement of any activity at site. The project file with documents was forwarded by SEIAA to SEAC for appraisal and recommendations.

It was informed by the project proponent that the construction activity has already been initiated at the site without obtaining prior EC. Thus, this is a clear case of violation of EIA Notification. Committee decided to return the case to SEIAA. SEIAA may like to issue directions for appraisal of the case in light of the MoEF O.M. no J-110131/41/2006 – IA- II (I) dated 12/12/2012.

6. Case No. – 1693/2013 Smt. Kuwar Rani Ayodhya Singh, Owner R/o 6, Usha Colony, Lashkar – Gwalior, Distt. - Gwalior (M.P.)- 470339- *Expansion of production capacity from 20,000 MTPA to 262538 Ton per year at Khasra No. – Part of 1262 in Village- Panihar, Tehsil- Gird, Distt. – Gwalior (M.P.)* ***Lease Area – 14.70 Ha.*** *Lease Period –30Yrs.* **Env. Consultant : Creative Enviro Services, Bhopal (M.P.) For – ToR**

This is a case of mining submitted for grant of prior EC as PP desire to expand the production capacity from 20000 MTPA to 262538 MTPA. The project presently has a valid EC for the existing production capacity. Enhanced production is envisaged in view of revised mining Plan. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA study and prepare effective EMP for the project. The case was presented by the PP and his consultant. After deliberations committee has approved the standard TOR with inclusion of following additional points:

- Data of earlier EIA can be used in the EIA report after due validation of the same.
- Compliance report duly certified from MoEF has to be submitted for complaince of the conditions of earlier EC.
- A freash Public Hearing shall be conducted at site disclosing all the facts of project and land details.

- Production capacity is proposed to be enhance by about 30 times the present production; hence impacts suc as traffic activities, air emissions, loading/unloading etc. have to be appropriately addressed in the EIA & accordingly mitigation measures to be pallned in the EMP.
- Other standard TOR shall be applicable.

7. Case No. – 1667/2013 M/s Singh Developers Pvt. Ltd. Through Shri Shashidutt Gangrani, Director, F-11, Darul habib Complex, Roxy Road, Gwalior (M.P.) – 474001 *Residential Project M/s Singh Developers Pvt. Ltd., at Khasra No. – 327, 342, 343, 344, Village – Ohadpur, Tehsil – Gwalior, Distt. – Gwalior (M.P.) Plot Area – 12,550 M2 , Built up Area – 45,125.85 M2 .(CF 135 SEAC Meeting dt. 04/06/13)* **Env. Consultant : Kadam Env. Con. , Delhi Building Construction Project.**

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

8. Case No. – 879/2012 Shri Vedanand Rai, Director, M/s Pacific Minerals (P) Ltd. Baihar Road, Balaghat MP- 481001 (M.P) *Manganese Ore Mine in an area of 20.0 Ha. for production capacity of 26000 TPA at old compartment no. 820 (Newq Compartment No. 464) Village Netra, Tehsil Waraseoni, District Balaghat (M.P)* **Env. Consultant: Creative Enviro Services, Bhopal (M.P.)** ToR issued vide letter no. 33 dt. 10/01/13 **For – EIA Presentation.**

This is mining project in MLA of 20.0 ha. The project is coverd under EIA notification hence is required to obtain prior EC from SEIAA. The EIA for the project was forwarded by SEIAA to SEAC for appraisal. The ToR was issued to the PP vide letter no. 33 dt. 10/01/13.
The case was presented by the PP and his consultant which reveals following salient features of the project:-
The Lease area is located in the Jurisdiction of village –Netra, over a forest land. The company is having forest Clearance under Forest Conservation Act 1980 from Ministry of Environment & Forest, New Delhi vide letter No. **8C/5/589/98-FCW/Vol-II/524 dtd. 11/03/2008. Validity of FC is from 11/03/2008 to 10/03/2028**
Validity of Lease: 11/03/2008 to 10/03/2028
Water Consent up to 31/12/2012 Air Consent up to 31/07/12 for production capacity of 26000 TPA
Location of the Project

District/State	Tahsil	Village	Details of Location	Area
Balaghat (MP)	Waraseoni	Netra	Old Compartment No. 820 & new Compartment No. 464	20.0 hectare

Environmental Setting of Project:-

S. N	Particulars	Details
1.	Locations	
	Village & Forest Range	Netra, G. F. Sonewani Forest Range
	Khasra no./ Compartment No.	Old Compartment No. 820 & new Compartment No. 464
2.	Lease area	20.0 ha
3.	Latitude & Longitude	21°51'52" N, 79°58'51"E
4.	Nearest City	Waraseoni – 20 km
5.	Nearest Railway Station	Saugi – 12.0 km – SE
6.	Nearest Airport	Nagpur - 150.0 km
7.	Nearest Tourist Place within 10km radius.	None
8.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
9.	Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Lease located in forest area, having FC under FC Act 1980
10.	Nearest Village	Netra 2.8 km – SE
11.	Nearest River	Chandan River 7.6 km in S
12.	Other mining lease falling within the 01 km radius	One Mn Mine (under forest land)

Salient futures of Mine

S.N	Description	Details
1.	Name of mine lease	Netra Manganese Mine
2.	Mining lease area	20.0 ha
3.	Method of mining	O/C , dump Ore as well as underground method
4.	Capacity of mine	26,000 TPA Mn Ore
5.	Total geological reserves	2,81,674 tones
6.	Expected life of mine	11 years
7.	Pit slope	28^0
8.	Average no. of working days per year	300 days
9.	Working hours per shift	8 hours
10.	Top soil thickness	Min. - 0.5m, max. -1.2m,
11.	Thickness of Overburden	0.5 m
12.	Ultimate depth of mine	18 m
13.	Water Table	22 m BGL
14.	Stripping Ratio	1:2

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

15.	Transport of Manganese	Dumpers/trucks

Land Use Pattern of mine

Particulars	Present sqm	After 5year Sqm	Conceptual period
Area under pits	77677	77677	77677
Area under dumps	10600	8083	18683
Area under road	2000	2000	2000
Area under storage of ore	500	1000	1500
Area under office/building etc.	247	247	247
Area under plantation	1000	1000	1000

Available Reserve and Life of Mine

Primary Bedded Deposit	Dump Ore Deposit	Total
2,17,674 t	64,000 t	281674 t

Mining Method

The method of excavation is open cost, Dump Ore as well as underground method as per given in approved mining plan. This is a working mine consists of following operations:

Blasting details: Slurry explosive along with electric with delay/ instant detonators shall be used for development and production purpose.

Water balance for project

Dust suppression : 5.0 kld
Green Belt : 1.5 kld
Domestic Use : 1.5 kld
Total : 8.0 kld

Budget for Environmental Protection

S.N	Particular	Capital cost (Rs.)	Recurring cost (Rs)
1.	Dust suppression	1,50,000/-	50,000.00
2	Environmental monitoring	-	40,000.00
4	Green belt development	66,000.00	66,000.00
5	Dump rehabilitation	-	20,000.00
6	Back filling	-	25,000.00
	Total	**2,16,000.00**	**2,01,000.00**

Budget for CSR

S. N	Particulars	Frequency	Annual Budget
1	Health Check up Camps in nearby areas	twice in year	20,000/-

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[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

2.	Village Road Construction as per demand from Panchayat	Yearly	50,000/-
3.	Repairing of School Building in Netra Village	Yearly	20,000/-
4.	Arrangement for Drinking water facility in Netra	Yearly	25,000/-
5.	Free Distribution of School Books for Children	Yearly	10,000/-
6.	Environmental Day celebration	Yearly	10,000/-
7.	Campaign against plastic bags in Balaghat City	Yearly	10,000/-
	Total		1,45,000/-

Public hearing proceedings were discussed in detail. It was observed that no adverse comments have been recorded against the project. In general public opinion was found to be in favour of the project.

After deliberations it was observed that the EIA, EMP and other submissions made by the PP are satisfactory and acceptable. Hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. Water requirement for the project shall not exceed 8 KLD. Use of water from village sources shall not be allowed with out approval of the same from Gram Sabha.
2. Subsidence studies shall be carried out for U/G mine & reported to the concerned authorities.
3. Green area development in at least 33% of the total MLA has to be developed with in the current lease period.
4. All proposed CSR activities shall be taken up in consultation with the Gram sabha and local administration.

9. Case No. – 411/2013- Shri Kamal Lime Industries, Shri Kishore Kumar Station Road, Katni (M.P) - 483001 *Limestone & Dolomite Mine* ***Lease Area – 5.605 Ha.*** *Production Capacity - 6200 TPA at Village- Chandan, Tehsil- Murwara, Distt. Katni (M. P.)* **For – EIA Presentation . Env. Consultant: Creative Enviro Services, Bhopal (M.P.)** ToR issued vide letter no 694 dt.03/07/09

This is mining project in MLA of 5.605 ha. The project is coverd under EIA notification hence is required to obtain prior EC from SEIAA. The EIA was forwarded by SEIAA to SEAC for appraisal. The ToR was issued to the PP vide letter no. 694 dt. 03/07/2013. The case was presented by the PP and his consultant which revealed following:

Salient features of the project

Particulars	Details

Type of Mine and method	Opencast and semi mechanised
Mining Lease Area	5.605ha
Existing Pits & Quarries	0.4828ha
Existing Dumps	0.0084ha
Plantation	0.5 ha
Recoverable Reserve	665144 tonnes
Ultimate Pit Slope	45o
Proposed capacity of mines	6200 tonnes per annum
Expected Life of Mines	109 years
Stripping Ratio	1:0.11
mode to transportation	Road
Area to be covered under dumps during conceptual period	0.32ha
Area covered under pit	2.72 ha
Area to be reclaimed by conceptual period	Nil
Area to be covered under plantation	2.0 ha
Area to be converted as water body	2.0ha
Average mRL	467m RL
Ground water table	
Monsoon period	15m bgl
Dry month	20m bgl
Ultimate depth of pit	7m bgl (459mRL)
Production Capacity	6200 MT per Annum

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[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Jurisdiction of Mine	Own land and private land
Public Hearing	25.05.2012
Khasara No	274, 275, 276, 277, 279, 280, 281 (old no. 171, 188, 189/1, 191/1)
Location of Mine	Village- Chandan, Tehsil- Murwara, Dist.- Katni (MP)
Lease Period	20 year

Environmental setting of project

Particulars	**Details**
Latitude Longitude	$23^0$42'24" North $80^0$32'24" East
Elevation range	Highest-468m RL - Lowest- 466m RL
Nearest Highway	Katni – Shahdol state highway - 4km
Nearest Railway Station	Rupond - 3.5km - ENE
Nearest Airport	Jabalpur - 130km
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10km radius
Reserved / Protected Forest within 10km radius	Jorapahar RF - 5.5km – S Nearest forest - 1.0km – S Gopalpur RF - 7.5km – NE Ponri PF - 7.75km - NWN Mainpur PF - 6.5km - NEN
Nearest Town / City	Katni - 31km
Nearest village	Chandan - 0.7km - NE
Nearest River	Jaranagar N - 6.0km - NW
Nearest Lake/ Ponds/Nalla/ canal	Bhabrar Nalla - 0.50km - W Canal - 1.0km - ESE Datla Reservoir - 2.5 km - ESE

Micro level features of 2km radius

Particular	Detail
Chandan	Distance -0.7km, Direction – NE, House Hold – 140, Population- 688 no, Educational facility- Yes, Medical facility- No, Drinking water facility- Yes
Bhaganwara	Distance -1.5km, Direction – W, House Hold – 201, Population- 898 no, Educational facility- Yes, Medical facility- No, Drinking water facility- Yes

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Surface water	Canal-1.0km-ESE, Bhabrar Nalla – 0.50km - W
Mines	7 mines and 4 crushers

Method of mining

Mining Method	❖ Proposed mining operation will be carried out by semi-mechanized method of mining using hand tools such as spades, hammer, crowbar, chisel etc & JCB & Excavator cum loader ❖ There are 3 old abandoned pits. During the first year, the working will be northern part of existing quarry-1 & 2. ❖ Systematic mining will be done in all the quarries ❖ Drilling & Blasting Operation shall be done as per norms.
Water Consumption (Avg.)	Dust Suppression – 3.0 KL per day from mine pit water Domestic activity – 1.0 KL per day from proposed hand pump Green Belt - 1.0KL per day from mine pit water
Water reservoir capacity	Presently – 0.15ha * 5m = 7500 KL After conceptual period – 2.0ha * 5m = 100000KL

Socio-Economic Activities

Activity	Exp. Incurred
Provision of carpus fund for social /developmental activities like provision of infrastructure facility at school, medical camps etc as proposed by Village Panchayat	Rs. 50,000/- per year
Free medical camp	Rs. 25000/- per year

EMP:

Following measures have been taken / proposed to minimize the impacts due to mining activity.

Air pollution control measures

- Water sprinkling on haul road will be carried out at frequent intervals during the movement of dumpers.
- Plantation along the mining lease boundary and haul roads will be carried out to reduce the spread of dust, it is proposed to plant 1500 trees along the boundary of mining.
- Existing over burden dumps will be stabilized with legumes and grasses to prevent the erosion of soil and to arrest the dust emission during windy days.
- Water will be sprayed over the muck pile to reduced the dust generation;
- Dust mask will be provided to all workers.
- Regular maintenance of vehicles will be carried out in order to control emissions;
- A good housekeeping and proper maintenance shall be practiced .
- Water will be sprayed twice in a day on Kuccha road, which is connected to PWD road moving towards village Chandan and will be used for transportation.

Water pollution control measures

- Retaining wall will be made along the waste dumps which will restrict/retain the loose particles. Height of retaining wall will be 1.0m and length will 340m.
- Garland drain will be constructed around the pit, which will be about 200m long having 0.25m depth. Garland drain will also be constructed around the existing dump & proposed dump, which is about 300m long and 0.25m deep. All garland drain ultimately join in pit no. 3 (16 x 8 x 1m), which is located east side of the lease area is converted as settling tank. The pumped out water will be used for agricultural purpose.
- The nearest water body is Bhabrar Nalla situated at 0.5km away from the lease boundary in west direction. Hence no overburden will be proposed in west direction. However Dumping is proposed northern part of the lease area, hence no flow of OB is envisaged. Garland drain and silt trapping system is proposed around the lease boundary for protection of nalla.
- During conceptual period 2.0 ha area will be converted as a water reservoir.
- Silt trapping system will be provided for the garland drains. Maintenance and cleaning of drains will be taken care at regular interval
- Quality of water of settling tank will be checked at pre-monsoon and post- monsoon.
- The accumulated water will be provided to farmers of the villages .
- Domestic waste water will be collected in soak pit

Solid waste management

- Presently 0.0084ha area has been covered by old dumps.
- During the first three year 21552 m^3 soil and 375m^3 mine waste will be generated which will be used for maintenance of road and 4th to conceptual period 16300m^3 lateritic soil and 6000m^3 intercalated wastes will be generated respectively, which will be dumped in the northern part of the lease area.
- During the conceptual period about 0.32ha area will be covered by waste dumps.
- Backfilling is not proposed during conceptual period.
- All waste dumps will be stabilized with grasses and trees to prevent the waste material flow to nearby area.

Existing waste management

Dump no	Type of dump active/ Inactive	Quantity m^3	Base area m^2	avg. height
D1	Inactive	80	84	1

PROPOSED WASTE MANAGEMENT

Year	Soil m^3	Overburden/waste m^3
1st 2nd 3rd	582 485 485	125 125 125
TOATL	1650	994

Afforestation plan

Environment impact & management: Ecology: Stage Wise Cumulative Plantation					
Year	Un-worked area green belt	In side dumps	Reclaim area/ Bench of pit	village side	Total

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees
Present	0.5	400	-	-	-	-	-	-	0.5	400
1st to 3rd	0.68	1020	0.32	480	-	-	0.5	750	1.5	2250
3rd to mine life	-	-	-	-	-	-	-	-	-	-
Total	1.18	1420	0.32	480	-	-	0.5	750	2.0	2650

Public Hearing

Public hearing was conducted on 25.05.2012 on 2.0 pm at Mine Premises, Village- Chandan, Dist Katni (MP). Total 41 people have attended the public hearing in general no adverse comments have been recorded during the public hearing. Important issues raised and submissions made by the PP are as follows:

Issue	**PP's Response**
The Rs. 200 per day/tone should be provided for shorting of minerals along with bonus. The treatment facility should be in mine office for treatment when required	The mine proponent will be paid the wages as per govt. rules. All the adequate treatment facilities will be in mine office when any accident will take place.
The mines project should be open. The local people should get employment in mine project	The employment will be provided to local people of the area as per their qualification.

After deliberations PP was asked to submit response to the following points:

- Year-wise production figures since 1994 duly verified from Mining Department.
- Written commitment for supply of pit water to the nearby villagers for agriculture use.

10. Case No. – 412/2013

Shri Kamal Lime Industries, Shri Kishore Kumar Station Road, Katni (M.P) - 483001 *Limestone & Dolomite Mine* ***Lease Area – 7.205 Ha.*** *Production Capacity - 11500 TPA at Village- Chandan, Tehsil- Murwara, Distt. Katni (M. P.)* **For – EIA Presentation. Env. Consultant: Creative Enviro Services, Bhopal (M.P.)** ToR issued vide letter no 692 dt.03/07/09

This is mining project in MLA of 7.205 ha. The project is coverd under EIA notification hence is required to obtain prior EC from SEIAA. The EIA was forwarded by SEIAA to SEAC for appraisal. The ToR was issued to the PP vide letter no. 692 dt. 03/07/2013.

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

The salient features are as given below:-

SALIENT FEATURES OF THE PROJECT

Particulars	**Details**
Type of Mine and method	Opencast and semi mechanised
Mining Lease Area	7.205ha
Existing Pits & Quarries	1.2750ha
Existing Dumps	0.2680ha
Plantation	0.0525 ha
Recoverable Reserve	597123 tonnes
Ultimate Pit Slope	55^{o}
Proposed capacity of mines	11500 tonnes per annum
Expected Life of Mines	53 years
Stripping Ratio	1:0.1
mode to transportation	Road
Area to be covered under dumps during conceptual period	0.3875ha
Area covered under pit	3.8817 ha
Area to be reclaimed by conceptual period	0.0667ha
Area to be covered under plantation	3.5 ha
Area to be converted as water body	3.3150ha
Average mRL	418m RL
Ground water table	
Monsoon period	25m bgl
Dry month	40m bgl
Ultimate depth of pit	7m bgl (406mRL)

Back ground of project

Production Capacity	11500 MT per Annum
Jurisdiction of Mine	Own and Private land
Public Hearing	25.05.2012
Khasara No	29, 31, 61, 63 (old no. 20/1, 20/3, 24/1, 25, 21P, 23/1, 23/2, 51P, 53P)
Location of Mine	Village- Chandan, Tehsil- Murwara, Dist.- Katni (MP)
Lease Period	20 year

Environmental setting of project

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Particulars	Details
Toposheet No.	64a/5, 6, 9, 10
Latitude Longitude	$23^0$43'11.6" To $23^0$43'28" North $80^0$32'16.1" To $80^0$32'30.4" East
Elevation range	Highest-421 m RL - Lowest- 416m RL
Nearest Highway	Katni – Shahdol state highway - 4km
Nearest Railway Station	Rupond - 3.5km - ENE
Nearest Airport	Jabalpur - 130km
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10km radius
Reserved / Protected Forest within 10km radius	Jorapahar RF - 6.0km – S Nearest forest - 1.5km – S Gopalpur RF - 6.5km – NEN Ponri PF - 7.75km - NWN Mainpur PF - 6.5km - NEN
Nearest Town / City	Katni - 31km
Nearest village	Chandan - 1.0km - SE
Nearest River	Jaranagar N - 5.0km - NW
Nearest Lake/ Ponds/Nalla/ canal	Bhabrar Nalla - 1.0km - W Canal - 1.7km - SE Datla Reservoir - 2.5 km - SE

Micro level features of 2km radius

Particular	Detail
Chandan	Distance -1.0km, Direction – SE, House Hold – 140, Population- 688 no, Educational facility- Yes, Medical facility- No, Drinking water facility- Yes
Bhaganwara	Distance -1.5km, Direction – W, House Hold – 201, Population- 898 no, Educational facility- Yes, Medical facility- No, Drinking water facility- Yes
Jhinjhri	Distance -1.75km, Direction – N, House Hold – 238, Population- 1178 no, Educational facility- Yes, Medical facility- Yes, Drinking water facility- Yes
Surface water	Canal-1.7km-SE, Bhabrar Nalla – 1.0km - W
Mines	7 mines and 4 crushers

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Method of mining

Mining Method	❖ Proposed mining operation will be carried out by semi-mechanized method of mining using hand tools such as spades, hammer, crowbar, chisel etc & JCB & Excavator cum loader ❖ There are 3 old abandoned pits. During the first year, the working will be northern part of existing quarry-1. ❖ Systematic mining will be done in all the quarries and single pit will be there after completion of five year working. ❖ Drilling & Blasting Operation as per norms.
Water Consumption (Avg.)	Dust Suppression – 4.0 KL per day from mine pit water Domestic activity – 1.5 KL per day from proposed hand pump Green Belt - 1.5 KL per day from mine pit water
Water reservoir capacity	Presently – 0.25ha * 4m = 10000 KL After conceptual period – 3.3150ha * 5m = 165750KL

EMP

Following mitigation measures will be taken to minimize the impacts due to mining activity

Air pollution control measures .

- Water sprinkling on haul road will be carried out at frequent intervals during the movement of dumpers.
- Plantation along the mining lease boundary and haul roads will be carried out to reduce the spread of dust, it is proposed to plant 1500 trees along the boundary of mining.
- Existing over burden dumps will be stabilized with legumes and grasses to prevent the erosion of soil and to arrest the dust emission during windy days.
- Water will be sprayed over the muck pile to reduced the dust generation;
- Dust mask will be provided to all workers.
- Regular maintenance of vehicles will be carried out in order to control emissions;
- A good housekeeping and proper maintenance shall be practiced.
- Water will be sprayed twice in a day on Kuccha road, which is connected to PWD road moving towards Chandan and will be used for transportation.

Water pollution control measures

- Retaining wall will be made along the waste dumps which will restrict/retain the loose particles. Height of retaining wall will be 1.0m and length will 340m.
- Garland drain will be constructed around the pit, which will be about 250m long having 0.25m depth. Garland drain will also be constructed around the existing dump & proposed

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

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dump, which is about 340m long and 0.25m deep. All garland drain ultimately join in pit no. 3 (60 x 30 x3m), which is located east side of the lease area is converted as settling tank. The pumped out water will be used for agricultural purpose.

- The nearest water body is Bhabrar Nalla situated at 1.0km away from the lease boundary in west direction. Hence no overburden will be proposed in west direction. However Dumping is proposed south western part of the lease area, hence no flow of OB is envisaged. Garland drain and silt trapping system is proposed around the lease boundary for protection of nalla.
- During conceptual period 3.315 ha area will be converted as a water reservoir.
- Silt trapping system will be provided for the garland drains. Maintenance and cleaning of drains will be taken care at regular interval
- Quality of water of settling tank will be checked at pre-monsoon and post- monsoon.
- The accumulated water will be provided to farmers of the villages .
- Domestic waste water will be collected in soak pit

Solid waste management

- Presently 0.988ha area has been covered by old dumps & mineral stack & during the first year, existing water dump will be used for backfilling purpose.
- During the first five year 2644 m^3 will be generated, which will be used for maintenance of road and backfilling purpose and 6^{th} to conceptual period 23750m^3 lateritic soil and 10240m^3 intercalated wastes will be generated respectively, which will be dumped in the south western part of the lease area.
- During the conceptual period about 0.3875ha area will be covered by waste dumps.
- Simultaneously backfilling during first five year period. During the first five year about 0.0667ha area will be backfilled.
- All waste dumps will be stabilized with grasses and trees to prevent the waste material flow to nearby area.

Existing waste management

Dump no	Type of dump active/ Inactive	Quantity m^3	Base area m^2	avg. height
D1	Inactive	780	780	1
D2	Inactive	2700	900	3
D3	Inactive	1000	1000	1
Total		4480	2680	

Afforestation plan

Year	Un-worked area green belt		In side dumps		Reclaim area/Bench of pit		village side		Total	
	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees	Area (Ha)	Trees

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Present	0.0525	50	-	-	-	-	-	-	0.0525	50
1st - 5th	0.5	750	0.3875	580	0.06	100	1.5	2250	2.4475	3680
6th - mine life	-	-	-	-	0.5	750	0.5	750	1.0	1500
Total	0.5525	800	0.3875	580	0.56	850	2.0	3000	3.5	5230

Public Hearing

Public hearing was conducted on 25.05.2012 on11.00 pm at Mine Premises, Village- Chandan, Dist Katni (MP). Total 37 people have attended the public hearing. In general no adverse comments have been observed.

After deliberations PP was asked to submit response to the following points:

- Year-wise production figures since 1994 duly verified from Mining Department.
- Written commitment for supply of pit water to the nearby villagers for agriculture use.

11. Case No. – 1700/2013 - Dr. Nalok Banerjee, Head National Institute for Research in Environment Health (NIREH) Proposed by Ministry of Health & Welfare), Kamla Nehru Hospital Building, Hamidia Hospital Campus, Bhopal (M.P.)- 462001 ***National Institute for Research in Environment Health (Research in Develpoment Centre) National Institute for Research in Environment Health (Research in Develpoment Centre)*** **Proposed By Indian Council of Medical Research (Ministry of Health & Welfare)** *at Khasra No. – Part of 71, Part of 72, Part of 73, Village – Bhouri, Tehsil – Huzur, Distt. – Bhopal (M.P.), Total Land Area = 7.8428 Ha., Total Built up Area – 38413.13 sq. mt (for admin block, Library, Laboratories, auditorium, residential block, guest house, club & convenient store etc)* **Env. Consultant: Creative Enviro Services, Bhopal (M.P.).**

This is a building construction project comprising total plot area of 7.8428 ha and total built-up area of *38413.13* m^2. The project requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was placed before the committee in this meeting and was presented by the PP and his consultant. The submissions and the presentation made by the PP reveals following:

Back ground of project

After the methyl isocyanate (MIC) gas episode at Bhopal on 2nd – 3rd December 1984, the Indian Council of Medical Research (ICMR) initiated several research programmes. ICMR had set up a Coordinating Unit in 1985 and this was subsequently upgraded in August, 1986 to "Bhopal Gas Disaster Research Centre" to monitor the research programmes and also to undertake long term epidemiological studies to record the morbidity and mortality of the cohort of gas exposed and control population.

Based on the long term epidemiological study carried out by the ICMR, during 1985 -94, it has been observed that the toxic gases inhalation caused one time acute injury to the respiratory tract and the

ophthalmic system. The clinical research studies were also organized simultaneously to document the natural history of the morbidities caused, and to find rational methods of treatment. While state-of-the-art facilities were being created for advanced research, systematic clinical studies were started with the existing facilities, on acute and sub-acute clinical phase.

After the judgment of Sessions Court, Bhopal on 7th June 2010, Government of India set up a Group of Ministers (GoM) to examine all the issues related to Bhopal Gas Leak Disaster. The Union Cabinet had had passed a resolution on 24th June 2010 directing, interalia, ICMR to establish a new permanent research centre at Bhopal. The ICMR set up its 31st permanent Research centre "National Institute for Research in Environment Health" at Bhopal, on 11th October 2010.

The salient features of the project include:

Facility	Research Institute
Net fresh Water Requirement	57.61 KLD
Power Requirement	3200 KW
Back up Power facility	2 DG Sets 600 KVA each
Solid Waste	246 kg per day
Bio medical waste	Negligible ~0.25 kg per day
Height of buildings	G + 4 maximum
Front MOS	12.00 m
Rear/Side MOS	6.00 m
Width of main assess	24 m wide road
Distance of fire station	Bairagarh 10 kms
Parking area	Open 6448 sqm / Covered 2800.37 sqm
Number of vehicle to be parked	350
Area under Green belt	13576.08
Area under Roads	14377.44

Objective	Environmental Clearance For proposed Institute
Total Area	7.8428 ha (78,428 sq mt)

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

Total Built up Area	42957.633 Sq mt
Cost of project	~96.00 Crore
Promoters of the Project	Indian Council of Medical Research (Ministry of Health & Welfare, Govt of India
Location of Project	Village – Bhauri, Tehsil- Huzur, Bhopal (MP)
Khasra No.	Part of 71, Part of 72, Part of 73
Occupancy	Land has sanctioned to the PP by the Govt
Geological Location	Latitude 23°17'20" N And Longitude 77°17'30"
Altitude	520 m AMSL
Nearby Features of the site	North : Agricultural land South : Agricultural land East : Road West : Agricultural land
Nearest Highway	NH-12 – 6 km
Railway Station	Bhopal -18 Km, Bairagarh – 3 km
Airport	Raja Bhoj – 10 km
Topography	Plain
Land use pattern	Public and semi public (PSP) land use.

Details with area statement

	Total Land Area	7.8428 Hectares (78,428.00 SQ.M)
	Area under proposed 24.0 M Wide Road	0.2009 Hectares (2,009.19 SQ.M)
	Net Planning area	7.6418 Hectares (76,418.81 SQ.M)
	Permissible ground floor coverage	25%
	F.A.R Permissible	1:1
	Max. Height permissible	18.0 M

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	Max. built up areas permissible on all floors	76,418.81 SQ.M
	M.O.S Front Rear Sides	12.0 M 6.0 M 6.0 M
	Proposed ground coverage	14,377.72 SQ.M (18.81%)
	Ground coverage of future expansion	1,142.50 SQ.M
	Total Ground coverage	15,520.22 SQ.M (20.30%)
	Total Built up Area	**42957.63 SQ.M**

Proposed area for core block

S.N			**Built up areas**	**Circulation areas**	**Total areas**
01	ADMIN BLOCK	G+1	2844.95 SQ.M	581.35 SQ.M	3426.03 SQ.M
02	LIBRARY	G+1	594.63 SQ.M	61.34 SQ.M	655.97 SQ.M
03	LABORATORIES	G+1	7395.03 SQ.M	3252.25 SQ.M	10629.28 SQ.M
04	AUDITORIUM	G+1	1162.79 SQ.M	376.09 SQ.M	1538.88 SQ.M
05	COVERED PARKING	G		1299.81 SQ.M	1299.81 SQ.M
		TOTAL	**11,977.74 SQ.M**	**5,572.84 SQ.M**	**17,550.24 SQ.M**
06	SERVICE FLOOR		2533.62 SQ.M		2533.2 SQ.M
		TOTAL	**2533.62**		**2535.62 SQ.M**

Proposed areas for residential block, hostel block, guesthouse & clubhouse

Residential Block		**Built Up Areas**	**Circulation Areas**	**Total Areas**
TYPE VI	G+1	327.75 SQ.M	43.25 SQ.M	371.00 SQ.M
TYPE B	G+4	3616.70 SQ.M	299.20 SQ.M	73915.90 SQ.M

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TYPE C	G+4	2790.00 SQ.M	318.30 SQ.M	3108.35 SQ.M
TYPE D	G+4	2278.00 SQ.M	230.00 SQ.M	2508.00 SQ.M
COVERED PARKING	G		1170.00 SQ.M	1170.00SQ.M
	TOTAL	**9012.45 SQ.M**	**2060.75 SQ.M**	**11073.25SQ.M**

Proposed areas for residential block, hostel block, guesthouse & clubhouse

Residential Block		**Built Up Areas**	**Circulation Areas**	**Total Areas**
Hostel Block	G+4	2352.85 SQ.M	1042.41 SQ.M	3489.46 SQ.M
Guest Houses Club	G+1	**1838.22 SQ.M**	**750.08 SQ.M**	**2588.30 SQ.M**
Allied Block				
Animal House Convenient Store				**237.26 SQ.M**
Service Block	Dg & Panel Room, Maintenance Office, Drivers Lobby, Central Store			**940.00 SQ.M**

Built up area for future expansion

Floors	**Ground floor**	**First floor**	**Second floor**	**Third floor**	**Fourth floor**	**Total**
RESIDENTIAL LABS	558.00 sq.m 584.50 sq.m	558.00 sq.m 584.50 sq.m	558.00 sq.m 584.50 sq.m	558.00 sq.m	558.00 sq.m	2790.00 sq.m 1753.50 sq.m
					Total	4543.50 sqm

1) **Road Area**	
i) 12.0 m wide road	1618.90q.m
ii) 9.0 m wide road	9229.12 sq.m
iii) 6.0 m wide internal circulation	1174.36 sq.m
iv) 4.5 m wide internal circulation	2355.06 sq.m
TOTAL ROAD AREA	14377.44 sq.m (18.33%)
1) **Service areas**	
Sump well & OH Tank	105.00 sq.m
S.T.P & Collection Tank	65.00 sq.m
Rainwater Harvesting (Collection Tank)	150.00 sq.m

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Garbage Disposal	45.00 sq.m
Total service area	**365.00 sq.m (0.46%)**
1) **Open Areas**	
i) G1	4098.50 sq.m
ii) G2	3797.89 sq.m
iii) G3	582.29 sq.m
iv) Open area	5097.40 sq.m
Total open area	**13576.08 sq.m (17.77%)**

Compiled Area Statement	
Area under Buildings	15520.22
Road Area	14377.44
Organised Green area	13576.08
Parking Area	7116.66
Services areas	365.00
Incidental Open spaces	25463.41
Total	76418.81

Water Requirement

S#	Particular	Units	Persons/ unit	Estimated population	water requirement	Total
					liters/capita	kl per day
1	Lab area	1	60	60	250	15.00
2	Administrative area	1	50	50	45	2.25
3	Residential Type VI	1	5	5	135	0.68
4	Residential Type III	20	5	100	135	13.50
5	Residential Type IV	20	5	100	135	13.50
6	Residential Type VI	20	5	100	135	13.50
7	Residential Future expansion	20	5	100	135	13.50
8	Guest House 16 Rooms @ 80% occupancy	16	2	26	135	3.46

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9	Hostel block @ 80% occupancy	64	1	51	135	6.91
					Total	82.29

Water consumption

A.	**Total water demand**	**in m3/day**
1)	**Domestic Water Demand**	
(i)	Total Potable Water Demand	57.61
(ii)	Total Flushing Water Demand	24.69
	Total Domestic Water Demand	**82.30**
2)	Total Horticulture Water Demand (for organised green)	42.39
3)	Total HVAC (Chilled screw technology) top up	10.00
	Grand Total of Water Demands for all	**134.69**
B.	**Total Available Treated Effluent for Recycling**	
1)	Total Sewerage Generated (Total Domestic Demand X 0.8)	65.83
2)	Total Treated Effluent Water Available from STP for Recycling (90%)	59.25
	Total of Available Water for Re-use	59.25
C.	**Total Utilized Treated Effluent**	
1)	Total Amount Re-Used for Flushing Water Purpose	24.69
2)	Total Amount Re-used for HVAC Purposes	10.00
3)	Total Amount available for Horticulture	24.56

Water will be primarily sourced through BMC water supply/ Ground water as well as from reuse of treated effluent. It is estimated that 82.30 KLD water is required per day for the domestic and other activities, out of which 59.25 KLD of treated water will be used for flushing, HVAC , horticulture purposes etc.

Sewage Treatment Plant

Capacity of STP: 80 KLD

Aerobic Conventional System

- The sewage will be collected into sump well and from here it will be pumped to the screen chamber of the STP. The effluent will get screened here, where large floating particles will be manually removed.
- Effluent flows by gravity to the grit chamber where heavy particles will settle down and the settled particle will be taken to sludge drying beds. The overflow of the grit chamber will come to Equalization Tank by gravity and effluent characteristics will get equalized in this tank.
- Equalized effluent will be taken to aeration tank, where removal of dissolved and colloidal organic impurities takes place. The aeration tank will be agitated with diffused aeration by air from rotary type of blowers. Air maintains an aerobic environment in mixed liquor of waste water. Activated sludge which contains microorganism, will absorb organic matter from waste water.
- The overflow from aeration tank flows by gravity to the clarifier to separate flocculated bio mass from the aeration tank and produce the clarified effluent. The excess biomass is pumped to the sludge drying beds or returned to the inlet point of aeration tank to increase the concentration of microorganism in the tank.
- The overflow of the clarifier will be taken to the disinfection tank by gravity flow through sodium hypochlorite shots.
- After disinfection, treated water will be filtered through sand filter and activated carbon filter for better quality for reuse.
- After dewatering sludge will be taken to digester and thereafter sludge can be used manure

Rain water harvesting

Considering evaporation, spillage and first flush wastage, only 80 % of water is actually available for rain water harvesting comes out to be- 29428.40 m3/ year.

Increase in runoff shall be 10998 cum Yearly

Environment Management Plan

Storm water management

- Runoff comprises of storm water, which flows into both surface water and groundwater. Proper management of this resource is required to ensure that storm water discharge should be free of contamination.

- Storm Water Management Plan includes the following:
- Good housekeeping at research laboratory building, staff quarter and utilities areas
- Conducting routine inspection to ensure cleanliness
- Secondary containment and dykes at fuel/oil storage facilities
- Preparation of spill response plans, particularly for fuel and oil storage areas.
- Provision of slit traps in storm water drains
- Regular inspection and cleaning of storm drains.

Air Pollution Control Management

Construction Phase

- Transportation of Raw material during Non peak hours
- Idling of delivery trucks should not be permitted on roads
- Use of ready mix concrete carried in enclosed container
- Use of fly ash for ready mix concrete
- Dust covers on trucks used for transportation of material
- Equipment shall be located away from sensitive receptor location
- Frequent water sprinkling to prevent fugitive dust emission
- Use of sharp teeth excavation machinery
- Construction activity shall be carried out in day time only
- Construction area shall be surrounded by GI sheets

Operational Phase

- Both DG (2X 600 KVA) sets will have appropriate stack height (10 mt) as prescribed by the Central Pollution Control Board
- Proper ventilation will be provided to all parts of the building
- Open burning of any waste shall not be allowed.
- Green belt to be provided in consultation with expert adviser.

Noise Environment Management Plan

Construction phase

- **Time of operation**

Construction equipment shall be provided with noise shield and other suitable precautions.

- **Job rotation and hearing protection**

Earplugs / muffs or other hearing protective wear will be provided to those workers working very close to the noise generating machinery.

Operation phase

- **Noise Emission Control Technologies**

DG set shall have in built acoustic enclosure which will be designed for minimum 65 dB (A).

Solid Waste Management Plan

It is estimated that at about 246 kg per day of waste will be generated from the facility during the operation

Collection and transportation

- During the collection stage, the biodegradable and non- recyclable/ non biodegradable waste will be stored and collected separately.
- To minimize littering and odors, waste will be stored in well designed containers/bins that will be located at strategic locations to minimize disturbance in traffic flow.
- The collection vehicles will be well maintained for minimum noise and emissions, and while transporting waste, these will be covered to avoid littering.

Disposal

- With regard to the disposal/treatment of waste, the facility will obtain permission from the BMC.

Bio Medical Waste Management

- Bio-medical waste shall not be mixed with other wastes.
- Bio-medical waste shall be segregated into containers/bags at the point of generation in accordance with Schedule II prior to its storage, transportation, treatment and disposal. The containers shall be labeled according to Schedule III.
- No untreated bio-medical waste shall be kept stored beyond a period of 48 hours

Bio Medical Waste

- Bio Medical waste with tune of 0.25 kg per day will be collected as per the Bio Medical waste handling and management rule and shall be treated in common disposal facility Bhopal Incinerator, at Govindpura , Bhopal (MP)

Energy Conservation

- The buildings have been carefully designed to reduce greenhouse gas emissions and adapt to future climate change, by applying façade optimization principles for daylight and shading according to mass and orientation.
- High Performance design standards are being used for the HVAC and the electrical systems.

Photo-Voltaic Roof Top Generation system:

- Utility block terrace is being planned with space for 30 KW
- solar to electrical power generation facility. However Boq cost is provided for 20KW on grid or 10 KW off grid system. This shall offer approx 24000 units per 10 KW system over a year .

Solar water heaters:

- • Solar water heaters for residential and guest house building are being recommended to complement other systems being designed to conserve energy.
- Use of harmonic filters in system will reduce wastage of power

Energy Efficient Electrical Design

- Energy efficient light fittings, ballast and transformers. T5 fixtures, LED and CFL ixtures shall be considered.
- Provisions of alternate circuits to serve common area light fittings to allow energy saving in off-peak operation.

- Use of Lighting control devices with day light sensors with occupancy to supplement available daylight. - For office lighting, where task areas are permanently located, it is more energy efficient to provide higher levels of task light on the work plane and lower levels of ambient light in surrounding areas. Light placement managed to ensure low lighting power density.
- The buildings have been carefully designed to reduce greenhouse gas emissions and adapt to future climate change, by applying façade optimization principles for daylight and shading according to mass and orientation.
- High Performance design standards are being used for the HVAC and the electrical systems.

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- Solar to electrical power generation facility. However Boq cost is provided for 20KW on grid or 10 KW off grid system. This shall offer approx 24000 units per 10 KW system over a year.

Solar water heaters:

- Solar water heaters for residential and guest house building are being recommended to complement other systems being designed to conserve energy.
- Use of harmonic filters in system will reduce wastage of power

Fire Fighting Measures

- Overhead Fire storage tanks as per NBC 2005
- Fire Hydrant System
- Automatic Fire Alarm System
- Hydrant pumps, Sprinkler pumps & Jockey pumps.
- Hand Held Fire Extinguishers
- Automatic Sprinklers System
- Wet risers, Fire Extinguishers, Hose Reel.

After deliberations committee found the EMP and other miscellaneous submissions satisfactory and acceptable. Hence the case was recommended for grant of prior EC ubject to the following special conditions:

1. Appropriate Photo-Voltaic Roof Top Generation system shall be installed.
2. The net fresh water requirement for the project shall not exceed 57.61 KLD.
3. Permission for ground water abstraction has to be obtained from CGWA.
4. Ground water if proposed for abstraction shall not be used for construction purpose.
5. Estimated waste-water generation from the project is reported to be 65.83 KLD which shall be treated through an efficient STP before recycling.
6. All hazardous wastes have to be quantified and shall be disposed off as per the provisions of Hazardous Waste Rules after obtaining due Authorization from MPPCB.
7. PP shall obtain necessary consents from the MPPCB before commencement of activity.

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8. Necessary certifications shall be obtained for Fire safety from the concerned authority.
9. Lush green area shall be developed in at least 33 % of the total plot area.

12. Case No. – 1194/2013 – M/s Balaji Infra Structure Company, Wardhman Towers, Russel Chowk, Napier Town, Jabalpur (M.P.) 482001 -*Group Housing Project Khasra No. – 151, 152, 155, 156, 157, 158, 159, 160 & 161, Village – Purva, Tehsil.. & Distt. – Jabalpur (M.P.)* ***Total Plot Area = 11,517.35 m^3 Proposed FAR= 22,999.3 m^3, Built Up Area = 31,729.38 m^3*** **Building Construction Project(Qry Reply Presen). Env. Consultant: Grass Roots Research & Creation (I) Pvt. Ltd. Noida (U.P.).**

The project was discussed in the 123rd meeting of SEAC in details. After deliberations PP was asked to submit response to various queries. The same was submitted by the PP and examined by the committee in 126th meeting. As some of the queries were not clear thus committee called upon the PP for clarification and query reply presentation. PP and his consultant presented the point-wise reply for the queries in this meeting which is discussed below. PP was required to clarify the following:

1. Two roads on either side of the core residential sector should have connectivity from between the residential blocks also through cross-roads. Provision of the same has to made; stilt-parking area may be used for the same. Lay-out with above provisions has to be furnished.
2. Chute system has been planned for collection of MSW from individual flats; effective operation of the same has to be ensured by providing adequate ventilation and pumping arrangement to avoid accumulation and unhygienic conditions. The planned arrangement in this context to be furnished.
3. Arrangement of wheel trolleys for every chute system and adequate pathway has to be made for collection & transfer of MSW from the residential blocks-proposal with commitment to submit.
4. Water supply for the project has been planned from the proposed water supply scheme of the Municipal Corporation; if for reasons the scheme of organized water supply is delayed what back-up arrangement is planned by the PP.
5. Installation of bio-compost reactor for MSW has been planned for the project; this option appears to be less feasible as it shall require appointment of professional operators and industrial approach to effectively operate such a system, which may not be possible for the resident's society. Thus, MSW should be disposed off in to the designated land-fill site of the corporation, accordingly commitment and permission from Municipal Corporation to be furnished.
6. The sludge from STP is proposed to be dried in the sludge-drying beds (SDB), PP failed to show the space for the SDB in the project. However, it is suggested that the STP sludge may be separated using centrifuge and the separated sludge can than be disposed off along with the MSW in to the land-fill site.
7. Stacks to be provided with the DG-sets have to be depicted on the lay out map and furnished.

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During presentation it was submitted by the PP that the total fresh water demand of the project is 139 KLD which will be met by Municipal Corporation supply. If the scheme of the organized water supply is delayed then, water will be supplied from the nearby overhead tank of capacity 2250 KL. Also, for this permission has been granted by the Municipal Corporation.
After deliberations it was found that the EMP and other submissions made by the PP are satisfactory and acceptable. Thus the case was **recommended** for grant of prior EC subject to the following special conditions:

1. Total fresh water demand for the project shall not exceed 139 KLD.
2. Estimated waste-water generation from the project is reported to be 171 KLD which shall be treated through STP before recycling.
3. Greenery will be provided in 3,800.73 m^2 i.e. in about 33% of the total plot area.
4. Cross-passage between the two rows shall be provided for smooth movement of the fire-tender.
5. STP sludge shall be dried in the filter-press and the dried sludge shall be disposed off along with the MSW. Sludge-drying bed and any other mode of disposal of sludge shall not be allowed.
6. The stack height of DG set shall be more than 6 meters above the top most floor of tower.

13. Case no. 711/2012 - Shri Ajay Pal Singh, Director & Attorney, M/s Khajuraho Minerals Pvt. Ltd., Post Box No. – 24, P.O. & Distt. – Chhatarpur (M.P.) – 471001 *Pathariya Granite Deposit Mine at Khasra No. 852/8/2,852/11,852/3/25/1,,852/3/25/2,852/3/25/3 Village- Pathariya, Tehsil – Raj Nagar,, Distt. – Chhatarpur (M.P.) Proposed Capa. – 18000 Cum per annumn.* ***Lease Area – 3.642 ha.*** **Env. Consultant: Grass Roots Research & Creation (I) Pvt. Ltd. Noida (U.P.)** ToR issued vide letter no 554 dt. 17/09/12 **- EIA Presentation.**

This is a mining project proposed in an area of 3.642 Ha for mining of Granite. The EIA has been forwarded by SEIAA to SEAC for appraisal. It was observed that the mining project is adjoining to another granite mine of the same proponent dealt as case no. 712/2012. PP was asked to submit cumulative impact expected from the two mines. The salient features of the project along with details of the EIA / EMP and cumulative impacts from the two mines were presented by the PP and his consultant in the meeting. The presentation and submission from PP reveals following:

Background of the Project

- The area was previously sanctioned under prospecting license for 2 years period by State Government vide order no.- 928/Khanij/2011 dated 11.08.2011. The PL deed was executed and registered on 27.08.2011 for 2 years PL period.
- The area under reference has been granted under Quarry lease to the applicant for 30 years period under the provisions of Rule-6 of Granite Conservation and Development rules 1999.

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- The mining plan of the deposit was approved under rule 12 of Granite conservation and development Rules, 1999 by DGM Bhopal; vide letter number 13455/Geology-2/N.K/16/2012 dated 07-09-2012 .
- The proposal is for the production of 18,000 m^3 per annum.
- The honorable MPSEAC has issued project specific TOR vide letter No: 554/PS-MS/MPPCB/SEAC/TOR (98)/2012 dated 17.09.2012 (Case no.711/2012).
- Public Hearing for the project was completed on 26th April 2013.

Mining details

Mining Method	Opencast semi-mechanized method
Ultimate depth of mine	160 m AMSL (16 m below ground level)
Proposed Bench of mining pit	Height : 6.0 m, Width : 6.0 m
Mineral Reserve	1,91,393 m^3
Stripping Ratio	1:2.38
Rate of Production	18,000 m^3
Life of Mine	20 Years
Required Man Power	57
Water Requirement	8.8 KLD
Source of Water	Ground water from dug wells / tube wells
Use of Mineral	Granite is used for building and flooring of tiles.

The salient features of the project include:

Pathariya Granite Deposits (Area: 3.642 Ha & 4.99 Ha)

- There are two mines in the name of Patheriya 3.642 ha and Patheriya 4.99 ha located at a distance of 200m from each other as shown in the map as followes.
- Separate TORs were received for each of the mines on 17.09.2012 for both the projects.
- Separate EIAs has been prepared for each of the projects.
- Before presenting each case, a cumulative impact has been worked out on traffic density and ambient air quality.
- Being adjacent to each other, a common baseline monitoring has been done for both the projects within the common study area which has been covered in each of the two presentations separately.

Cumulative Impact of Both the Project on Traffic Density

<u>During Mine operation</u>

Total Capacity of mine : 18000 m^3
No. of working days : 300 days
Truck Capacity : 4 m^3

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No. of trucks deployed per day : 15 trucks (From each mine)
No. of PCU added/day-both ways : 15 X 2 X 4.5=135
(From Patheriya 3.642 Ha Mine)
No. of PCU added/day-both ways : 15 X 2 X 4.5=135
(From Patheriya 4.99 Ha Mine)
No. of PCU added/day-both ways : 135+135=270
(From both the mines)

From the above analysis it can be seen that the V/C ratio is likely to change to 0.26 and 0.10 with LOS being "B" and "A" which is "excellent" and "very good" for Village Intersection and PWD road, respectively. So the additional load on the carrying capacity of the concerned roads is not likely to have any significant adverse effect.

Road	V (PCU/Day)	C (PCU/Day)	Existing V/C Ratio	LOS
Near Village Intersection	192	1800	0.17	A
PWD Road	816	11000	0.07	A

Road	V (PCU/Day)	C (PCU/Day)	Existing V/C Ratio	LOS
Near Village Intersection	462	1800	0.26	B
PWD Road	1086	11000	0.10	A

Cumulative Impact of Both the Projects on Ambient Air Quality

Prediction of Ground Level Concentrations (GLC's) of pollutants emitting from the mining activities like Drilling and Blasting operations, Excavation and Loading of ore and Transportation on the haul road etc. have been carried out using Gaussian Dispersion Model "ISCST-3". The GLC is found to be acceptable.

CSR- budget

Activities	Area of Investment	Methods of Calculation	Basics	Expenses (in Rs.)
a	Infrastructure development (education, medical, etc.)			1,50,000
	Educational facilities	Rs 0.5 Lakh per Village	No. of Village:1	50,000
	Medical Facilities	Rs. 0.5 Lakh per Village	No. of Village:1	50,000
	Others	Rs. 0.5 Lakh per Village	No. of Village:1	50,000
b	Income Generation Activities	Rs. 500 per head X unemployed population of nearest village	No. of Unemployed Population:200	1,00,000
	Total Capital investment			**2,50,000**

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Conceptual Plan:

S.N	Land Use	End of the 5th Year	Conceptual land use pattern
1	Pits (Broken area)	2.0	(3.14)
2	Dumps	-	-
3	Road	0.05	-
4	Green Belt	0.05	0.502
5	Infrastructure	-	-
6	Reclaimed and Rehabilitated to Afforestation	-	1.035
7	Water Reservoir	-	2.105
8	Others	-	-
9	Undisturbed area	1.542	-
	Total	3.642	3.642

- Green belt will be developed in 0.502 ha and 1.035 ha area will be reclaimed & rehabilitated by plantation.
- The reclaimed area after consolidation & stabilization will be afforested with native species such as Neem, Gulmohar, Mango, Sagwan, Shisham, Kachnar, Gamhar, Jamun, Agaves etc.
- Plant species will be planted after consultation with State Forest Department.

Public Hearing

- Notice for the public hearing was published in two daily news papers, "Raj Express" and "Hindustan Times" on dated 24-03-2013
- The Public hearing was conducted on 26-04-2013 at 11.00 am at Village: Pathariya, Tehsil: Rajnagar, District: Chhatarpur, State: Madhya Pradesh.
- The public hearing in general was in favour of the project. Major demands / suggestions were related to the employment to local residents, health impacts and air pollution etc. Issue of maintenance of the roads was also raised in the PH PP has agreed to spend Rs 1.0 Lac every year for the purpose. PP has also committed to spend Rs 1.5 Lac for providing drinking water in the region. PP has responded the issues satisfactorily.

After deliberations committee found the EIA / EMP and other submissions satisfactory and acceptable hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. OB height shall be restricted up to 20 meters only.
2. Benching and terracing shall be provided on OB dumps every 10 meters.
3. Garland drains shall be provided around every OB dump.
4. Only controlled blasting in presence of experts may be carried out.

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5. Persons from staff shall be provided trainings from authorized agency for implementation of EMp and other environmental issues.
6. All garland drains shall be connected to a settling tank of appropriate volume.
7. All preventions (construction of check-dams etc.) shall be taken up to prevent the run-offs from the site into the nearby water bodies.

14. Case No. 712/2012- Ajay Pal Singh-Khajuraho Minerals Pvt Ltd PB No. 24 Dist Chhhatarpur - Granite deposit mine of 4.990 ha, Village - Patharia Tehsil - Rajnagar, District- Chhatarpur by M/s Khajuraho Minerals Pvt. Ltd.

This is a mining project proposed in an area of 4.990 Ha for mining of Granite. The EIA has been forwarded by SEIAA to SEAC for appraisal. It was observed that the mining project is adjoining to another granite mine of the same proponent dealt as case no. 711/2012. PP was asked to submit cumulative impact expected from the two mines. The salient features of the project along with details of the EIA / EMP and cumulative impacts from the two mines were presented by the PP and his consultant in the meeting. The presentation and submission from PP reveals following:

Brief of the proejct

- The area was previously sanctioned under prospecting license for 2 years period by State Government vide order no.- 927/Khanij/2011 dated 11.08.2011. The PL deed was executed and registered on 27.08.2011 for 2 years PL period.
- The area under reference has been granted under Quarry lease to the applicant for 30 years period under the provisions of Rule-6 of Granite Conservation and Development rules 1999 vide letter No-773/Khanij/2012 dated 17/05/2012.
- The mining plan of the deposit was approved under rule 12 of Granite conservation and development Rules, 1999 by DGM Bhopal; vide letter number 5279/geology-2/N.K16/2011-12 dated 07-09-2012 .
- The proposal is for the production of **18,000 cum per annum**.
- The honorable MPSEAC has issued project specific TOR vide letter No: 556/PS-MS/MPPCB/SEAC/TOR (98)/2012 dated 17.09.2012 (Case no.712/2012).
- Public Hearing for the project was completed on 26th April 2013.

Location of mining lease area	Village: Pathariya, Taluka : Rajnagar District : Chhatarpur, State : Madhya Pradesh
Geographical Co-ordinates	Latitude : 24°56'32.2" to 24°56'40.4" N Longitude : 79°58'07.3" to 79°58'18.7" E
Total Mining Lease area	4.99 ha
Type of lease area	Private waste Land
Nearest Habitation	Pathariya (about 1 km in west)

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Nearest Railway Station	Khajuraho Railway Station (about 16 kms in SW)
Road Connectivity	The mine is connected to NH-75 (about 25 km in SW) through unmettaled road which leads to Chhatarpur
Altitude of the Site	Highest -184 m AMSL, Lowest – 176 m AMSL

Mining Details

Mining Method	Opencast semi-mechanized method
Ultimate depth of mine	160 m AMSL (16 m below ground level)
Proposed Bench of mining pit	Height : 6.0 m, Width : 6.0 m
Mineral Reserve	3,16,913 m3
Stripping Ratio	1:2.38
Rate of Production	18,000 cum
Life of Mine	30 Years
Required Man Power	57
Water Requirement	10 KLD
Source of Water	Ground water from dug wells / tube wells
Use of Mineral	Mineral granite is used for building purpose as tiles and block. Since the granite tests good polish, it is used for provision of flooring tiles.

Air pollution control measures

Mines

- Wet drilling system to be provided for all workers on site.
- Dust masks will be provided to all workers on site , wherever necessary.
- Afforestation for control of dust.
- Plantation of trees and tall grass along approach roads and on barrier zones will be done to help suppress the dust and for aesthetic enhancement

Haulage

- All haul roads will be maintained regularly.
- Water will be sprayed daily on the roads by using water tankers.
- Avoiding over filling of tippers and consequent spillage on the road.
- Ore carrying trucks will be effectively covered by tarpaulin.

Noise pollution control measures

- Workers equipped with PPEs at work place.
- Maintenance of Green belt in and around the mine.
- Avoiding overloading of the trucks
- By controlling the speed of the truck.
- Proper gradient of haul roads to reduce cumulative noise.
- Transportation of materials will be limited to day hours only.

Water Environment (Impact Assessment)

- Impact on surface water can be anticipated during monsoon as the available nallas in the study area are seasonal only.
- Mining will not be intersecting the ground water table.

Water Pollution Control Measures

- Garland drains will be constructed around the dump areas to prevent the runoff water of the mine into the surface drainage channel.
- Providing sufficient gully checks & check dams to protect surface run-off.
- Provision of retention walls at the foot of the dumps.
- The excavated pit will be used as water resources and available for rain water harvesting.
- The domestic waste water will be reused for plantation purposes.

Reclamation Plan

- The exhausted mine pit will be reclaimed with OB and wastes generated during the operations
- In order to retain the topography nearest to the virgin land, few voids will be left un-reclaimed and used as water reservoirs. The reclaimed land will be densely afforested with variety of plant species that are chosen from the background environment
- The proposed rehabilitation plan shall ensure the bio-diversity of the reclaimed land will have more diverse flora than the virgin land
- After backfilling the area will be compacted and leveled, over which the soil will be spread and afforestation will be done as described above.

Post Land use Pattern

SN	Land use	Conceptual land use pattern
1	Pits (Broken area)	**(4.41)**
2	Dumps	-
3	Road	-
4	Green Belt	**0.58**
5	Infrastructure	-
6	Reclaimed and Rehabilitated to Afforestation	1.40
7	Water Reservoir	3.01
8	Others	-

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9	Undisturbed area	-
	Total	**4.99**

Proposed Reclamation Plan

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- In order to retain the topography nearest to the virgin land, few voids will be left un-reclaimed and used as water reservoirs. The reclaimed land will be densely afforested with variety of plant species that are chosen from the background environment
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Post mining land-use plan:

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1	Pits (Broken area)	(4.41)
2	Dumps	-
3	Road	-
4	Green Belt	0.58
5	Infrastructure	-
6	Reclaimed and Rehabilitated to Afforestation	1.40
7	Water Reservoir	3.01
8	Others	-
9	Undisturbed area	-
	TOTAL	4.99

- Green belt will be developed in 0.58 ha and 1.40 ha area will be reclaimed & rehabilitated by plantation.
- The reclaimed area after consolidation & stabilization will be afforested with native species such as Neem, Gulmohar, Mango, Sagwan, Shisham, Kachnar, Gamhar, Jamun, Agaves etc.
- Plant species will be planted after consultation with State Forest Department**.**

After deliberations committee found the EIA / EMP and other submissions satisfactory and acceptable hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. OB height shall be restricted up to 20 meters only.
2. Benching and terracing shall be provided on OB dumps every 10 meters.
3. Garland drains shall be provided around every OB dump.
4. Only controlled blasting in presence of experts may be carried out.
5. Persons from staff shall be provided trainings from authorized agency for implementation of EMp and other environmental issues.
6. All garland drains shall be connected to a settling tank of appropriate volume.

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7. All preventions (construction of check-dams etc.) shall be taken up to prevent the run-offs from the site into the nearby water bodies.

15. Case No. – 1307/2013 Shri Sunlife Infratech, Partner Shri Yogesh Khandelwal, 44, Murar Enclave, Goley Ka Temple - Gwalior, Distt. – Gwalior (M.P.) *Group Housing " Sun Valley " Project Survey No. – 74/3 A, 75/2/1, 75/1, 73/3 A, 74/2/1 A, 74/2/2, 36/2/2, 72/1, 72/2, 109, 111/2, 36/2/2, 72/2, 109, 111/2, 36/2/1, 35, 34/1 A, 73/2A, 73/3A, 34/2 A, 73/3 A , 75/2/1, 75/1, 73/3 A, 74/2/1/A, 74/2/2, 36/2/2, 72/1, 72/2, 109, 111/1, 36/2/1, 35, 34/1 A, 73/2 A, 73/3 A, 34/2. Village – Dongarpur, Tehsil.. & Distt. – Gwalior (M.P.)* ***Total Plot Area = 42,357 m^2, Proposed FAR= 96,723.718 m^2 , Built Up Area = 1,67,580.03 m^2.*** **Env. Consultant : Grass Roots Research & Creation (I) Pvt. Ltd. Noida (U.P.)** ToR issued vide letter no 502 dt. 12/06/13 - **EIA presentation - Building Project.**

This is a building construction project comprising total plot area of ***42,357 m^2*** and total built-up area of ***1,67,580.03*** m^2. The project requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was placed before the committee in this meeting and was presented by the PP and his consultant. The submissions and the presentation made by the PP reveals following:

Salient features of project

Name of Project	Group Housing Project "Sun Valley"
Location	Village Dongarpur, Gwalior, Madhya Pradesh
Plot Area	42,357 m^2
Built-up Area	1,67,580.03 m^2
Landuse	Project is earmarked for the Group Housing purpose as per the Letter no. 2874/035 Dhara-16/2012 Dated 13-Dec-2012 From Town And Country Planning Department, Madhya Pradesh.

Locational features

SN	Features	Description	Distance & Direction
1.	Nearest Airport	Gwalior Airport	12 km; N
2.	Nearest Railway Station	Gwalior Railway Station	4.5 km; NW
3.	Nearest National Highway	NH-3	1.6 km; SE
4.	Nearest College	Maharana Pratap College of Engineering	0.82 km; NNW

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5.	Nearest Hospital	Aaarogya Medical Hospital	2.76 km; NNW

Project details

Project features	**Description**
Plot Area	42,357 m^2
Built-up Area	1,67,580.03 m^2
Estimated Population	6,995 persons
Estimated Water Requirement Construction Phase Operation Phase	837.9 ML (Private Water Tanker) 985 KLD (Fresh 629 KLD) (source: Gwalior Municipal Corporation)
Estimated Wastewater Generation	763 KLD
Power Demand Power Back-up	4,580 kVA 3,020 kVA (2 x 1010 kVA + 2 x 500 kVA)
Source of Power	Madhya Pradesh Kshetra Vidyut Vitaran Company Limited
Solid Waste Generation	3,320.85 kg/day
Parking Facilities Required (As per MoEF/MP Bye Laws) Proposed	 967 ECS 1,231 ECS
Rain Water Harvesting Pits	20 No.
Project Cost	Rs 99.8 Crores
Maximum Height	42.45 m

Area statement

S. No.	**Particulars**	**Area (in m^2)**
1.	Total plot Area	42357
2.	Area Under Road widening	760
3.	Net Plot Area	41597
4.	Permissible Ground Coverage (@ 30% of N.P.A.)	12,479.1
5.	Proposed Ground Coverage (@ 28.457% of N.P.A.)	11,837.074
6.	Permissible FAR (@ 2.33 of N.P.A.) Permissible FAR (@ 2.25 of N.P.A.) FAR area for road Widening	97,013.25 93,593.25 3,420

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7.	Proposed FAR (@ 2.32 of N.P.A.)	96,723.718
8.	Non FAR Area • Balcony, Staircase, Lobby and stilt area • Mumty Room • Podium • Basement	70,856.312 37,724.13 954.233 2,917.098 29,260.656
9.	**Built Up Area**	**1,67,580.03**
10.	Landscape Area (@ 36.8 % of N.P.A.)	15,326.99

Water requirement during construction phase

- Agency: Private Water Tanker
- Approx. Water Demand: 837.9 ML
- Wastewater Generation: 5.4 KLD

Water requirement during Operation phase

S. No.	Description	Total Occupancy/ Area / Capacity	Rate of water demand (lpcd)	T. Water Req. (KLD)
1.	**Domestic Water**			
	Resident	5,470	135	738.45
	EWS	490	135	66.15
	LIG	335	135	45.23
	School (staff & student)	50	45	2.25
	Community building	90	45	4.05
	Convenient shopping	40	45	1.8
	Staff	150	45	6.75
	Visitors	370	15	5.55
A.	**Total Domestic Water Requirement = 870.23 KLD**			
B.	**Horticulture and Landscape development**	15,326.99 m^2	25 KLD/acre	95
C.	**Make-Up Water For Swimming Pool**			5
D.	**Filter Backwash**			15
Grand Total (A+B+C+D) = 985.23 KLD				

Waste water calculation

Domestic Water Requirement	870 KLD
• Fresh water for Domestic use (@ 70% of	609 KLD

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domestic)	
• Flushing (@ 30% of domestic)	261 KLD
Waste Water Generated (@ 80% fresh + 100% flushing+ Backwashing)	487.2 KLD + 261 + 15 KLD = 763.2 KLD Says 763 KLD

Water and wastewater management

S N	Likely impact	Management / mitigative measures
A) **during construction phase**		
1 2 3	**Agency**: Private Water Tanker **Water Demand** = 837.9 ML **Wastewater Generation** = 5.4 KLD	1 The site drainage shall be planned in such a way that there is no accumulation of wastewater within the project premises or in the vicinity of the site. 2. Mobile type sulabh shauchalayas to be provided for construction laborers.
B) **during operation phase**		
1 2 3	**Agency**: Gwalior Municipal Corporation **Total Water Demand** = 985KLD Fresh water = 609 KLD Flushing = 272 KLD Landscape = 95 KLD **Wastewater Generation** = 763 KLD	1. STP of 20% higher capacity proposed to treat wastewater. 2. Drip & Spray irrigation shall be done for reducing water demand. 3. Treated sewage shall be used for Horticulture and flushing.

Solid waste generation (during operation phase)

S. No.	Category	kg per capita per day	Waste generated (kg/day)
1	Residents	5,470 @ 0.50 kg/cap/day	2,735
2	E.W.S.	490 @0.50 kg/cap/day	245
3	LIG	335@ 0.50 kg/cap/day	167.5
4	School	50 @ 0.05 kg /cap/day	2.5
5	Staff	150 @ 0.25 kg/cap/day	37.5
6	Visitors	370 @ 0.15 kg/cap/day	55.5
7	Community Building	90 @ 0.1667 kg/cap/day	15
8	Commercial & Shopping	40 @ 0.15 kg/cap/day	6
9	Landscape waste (3.79 Acres)	@ 15 kg/acre/day considering alternate day mowing	56.85
	Total solid waste generated		**3,320.85 kg/day**

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Green Area details:

- For the project, Greenery will be provided in 15,326.99 sqm (@ 36.8% of the net plot area), which will enhance the beauty of the site and help combat air and noise pollution.
- A diverse variety of indigenous evergreen and ornamental trees would be planted.
- The plant species will be selected on the basis of Urban Standard Plantation norms and CPCB guidelines.

Power requirement

Total Power demand: 4,580 kVA
Source: Madhya Pradesh Kshetra Vidyut Vitaran Company Limited
Power backup: 4 DG sets of total 3,020 kVA capacity (2x1010 kVA +2 X 500 kVA)

Proposed Energy Conservation Measures

- ❖ Maximum use of natural lighting through architectural design.
- ❖ Use of CFL and low voltage lighting fixtures in common areas.
- ❖ Truelite fluorescent lamps in basement.
- ❖ Use of solar energy for street lighting & hot water generation.
- ❖ Appropriate Design to shut out excess heat and gain loss.

Net energy saved

S.N	Description	Saving (kVA)
1	Solar Lighting is proposed for open spaces and signage	19.07
2	CFL based Lighting will be done in the common areas, landscape areas, signage, entry gates and boundary walls etc.	19.07
3	CFL based Lighting will be done in dwelling units	604
4	Use of solar water heater system	360.9
Total energy saved = 1003.04 kVA		
Total energy consumption = 4,580 kVA Total energy saving = 21.9 %		

Environment management cost

Component	Capital cost (Rs. Lac)	Recurring cost (Rs. lac)
Sewage Treatment Plant	142	18
Rain Water Harvesting System	50	4
Solid Waste Management	8	3
Environmental Monitoring	9	9

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Green Area	54	5
Others (Energy saving devices, miscellaneous)	5	1
Total	268	39

During presentation PP has submitted written commitment for making provision of play ground. After deliberations committee found the EMP and other submissions made by the PP satisfactory and acceptable. Hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. Total fresh water demand for the project shall not exceed 609 KLD.
2. Estimated waste-water generation from the project is reported to be 763 KLD which shall be treated through STP before recycling.
3. Greenery will be provided in 15,326.99 sqm i.e. 36.8% of the net plot area.
4. Play ground shall be provided.
5. STP sludge shall be dried in the filter-press and the dried sludge shall be disposed off along with the MSW. Sludge-drying bed and any other mode of disposal of sludge shall not be allowed.
6. The stack height of DG set shall be more than 6 meters above the top most floor of tower.
7. Solar Lighting as proposed for open spaces and signage shall be ensured.

16. Case no. 673/2012- Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462-003 - Ghogra Complex (Medium) Irrigation Project (Main Dam) Catchment Area- 88.50 Sq.km., Gross Storage Capacity- 20.62 MCM, Live Storage Capacity – 17.43 MCM, Gross Command Area – 5250 ha. Cultivable Command Area – 4450 ha., at Village – Ghogra, Tehsil – Nasrulaganj, Distt. – Sehore (M.P.).

Environmental Consultant :

This is a river-valley project with catchment area of 88.50 Km2 and gross storage capacity of 20.62 MCM. The Live storage capacity is reported to be 17.43 MCM and CCA is 4450 Ha. The project is covered under the provisions of EIA Notification hence requires prior EC from SEIAA. The EIA report was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. PP and his consulatant presented the salient features of the project and the EIA report which reveals following :

Location

Tehsil and District - Nasrullaganj/Sehore
River - Ajnal River

Dam

Type	-	Earthen dam
Length of earthen portion	-	2470 m
Length of waste weir	-	230 m
Total length	-	2700 m
Maximum height of dam	-	20.23 m
Top width of earthen dam	-	5.0 m
River Bed level	-	324.27 m
MDDL	-	333.20 m
Top Bund Level	-	344.50 m
Full Tank level	-	341.00 m
Maximum Water level	-	342.50 m

Salient Features of the project:

Reservoir data

Catchment area - 61.75 Sq. km
Gross storage capacity - 20.62 Mcum
Live storage capacity - 17.43 Mcum

Irrigation

GCA - 5300 ha
Designed irrigation - 5300 ha
Rabi - 3950 ha
Kharif - 1350 ha

Land Requirement

S.No.	Project Name	Revenue Land(ha)	Private Land (ha)	Forest land (ha)	Total (ha)
1.	Dam & Reservoir	184.17	194.00	18.50	396.67
2.	Canal Network	-	138	-	138.00
3	Colony & Approach Road and other project components	Nil	Nil	Nil	-
	Total	184.17	332.00	18.50	534.67

Land use pattern: command area

Type of land	Area (ha)	Percentage of command area
Vegetation	2025	21.91
Grasslands	1014	10.98
Barren land	1143	12.37

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Agricultural land	4948	53.55
River/ Water bodies	18	0.19
Exposed Rock	62	0.67
Built-up area	30	0.32
Total	9240	100.0

Impacts from the proposed project were presented by the PP which reveals as follows:

Impact on land environment – construction phase

- Environmental degradation due to immigration of labour population
- Land acquisition for sitting the construction equipments and storage of construction material
- Soil erosion from construction sites

Impact on land environment – operation phase

Change in Cropping Pattern

Name of the crop	**Area under cultivation (ha)**	
	Pre-project	Project operation
Kharif		
Soyabean	1350	1350
Sub-total(A)	1350	1350
Rabi		
Hybrid Wheat	Nil	700
Ordinary Wheat	1900	1200
Gram	2050	2050
Sub-total(B)	3950	3950
Total (A+B)	5300	5300

Impacts on water resources and quality

It was submitted that there would be no impacts on downstream water users, water-logging and soil salinity and effluents from project colony.

It was also submitted that-

- Total Water availability at 75% dependable year -17.89 Mm^3
- Total water requirement - 14.01 Mm^3
- Thus, there is sufficient water available to sustain riverine ecology.

Impacts on terrestrial ecology

Construction Phase :

- Increased human interference
- Tree felling and clearing by labour population for using fuel wood and timber requirement.

Operation Phase:

- Acquisition of 184.17 ha of Revenue land
- Acquisition of 332.0 ha of Private and 18.50 ha of Forest land
- Tree density in submergence area – 56 trees/ha
- Tree density near dam site – 10 trees/ha
- Increased fodder availability would reduce the pressure on existing pasture and vegetal cover
- Overall improvement in vegetal cover due to increase in soil moisture.

Impacts on noise environment

Construction Phase:

- Impacts due to operation of construction equipment
- Impact due to increased vehicular movement
- No major adverse impacts on ambient noise levels are anticipated

Operation Phase:

- Noticeable impact on noise environment is not anticipated

Environmental Management Plan:

Biodiversity Conservation and Management Plan

- Total forest area to be acquired is 18.5 ha.
- Forest clearance has been obtained
- Total land proposed to be afforested is 37 ha
- There is no wildlife sanctuary, national park, etc. within the study area.
- No rare, endangered and threatened species are reported in the project area.
- Measures proposed for conservation and improvement of biodiversity:
  - Forest Protection Plan
  - Public awareness for the protection of wild life and prevention of forest fires
  - Improvement of Wildlife habitats
  - Patrolling and surveillance for anti-poaching

Fisheries Management Plan

- **Release of Environmental Flows**
  - River is practically dry from October to June, i.e. non-monsoon-non lean season and lean season.

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- It is recommended to release 20% of discharge in monsoon season as Environmental Flow
  - Sustenance & enhancement of fisheries potential through supplementary stocking of reservoir
  - Stocking density @ 300 fingerlings/ha
  - Fish seed requirement shall be 6.25 lakh
  - Nursery Pond : 7.0 ha
  - Rearing Pond : 2.22 ha
  - Increase in Fish production from the reservoir

Environmental management in labour camps – Labours shall be provided with following -

- Housing
- Water supply
- Provision of free fuel
- Sewage treatment facilities
- Solid waste management

Greenbelt Development Plan

- Green belt development - 10 ha.
- Inter-connecting/approach roads of various project components, working sites, etc. shall be covered with avenue plantation.
- Available space will be brought under Greenbelt for plantation of fruit, ornamental and shade trees along with shrubs, climbers etc.
- Along the road sides, 2 to 3 rows of ornamental trees shall be planted.
- Saplings for Greenbelt shall be procured from nearby nurseries of the Forest Department.

Control of water pollution

Construction phase:

- Provision of settling tank for treatment of effluent from construction site.
- Provision of septic tank for treatment of sewage generated from labour camp

Operation phase:

- Provision of STP for treatment of sewage generated from project colony

Control of air pollution

- Construction equipment and vehicles will be turned off when not used for extended periods of time.
- Contractor shall ensure that there is effective traffic management at site. The number of trucks/vehicles to move at various construction sites should be fixed
- Road damage caused by sub-project activities will be promptly attended to with proper road repair and maintenance work.
- Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed with water

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- Contractors will be required to cover stockpiled soils and trucks hauling soil, sand, and other loose materials (or require trucks to maintain at least two feet of freeboard).

Noise control measures

- Vehicles to be equipped with mufflers recommended by the vehicle manufacturer.
- Staging of construction equipment and unnecessary idling of equipment within noise sensitive areas to be avoided whenever possible.
- Maximum permissible sound pressure level for new diesel generator sets with rated capacity upto 1000 KVA shall be 75 dB(A) at 1 m from the enclosure surface.
- Noise from the DG set shall be controlled by providing an acoustic enclosure or by treating the enclosure acoustically

Resettlement and rehabilitation plan

Details of project affected families

- Project does not envisage any displacement

S. N	Village	No. of PAFs
A	Families losing land under reservoir submergence	
1	Ghotwani	80
2	Pipalwani	10
3	Itawakhurd	5
	Sub-Total (A)	95
B.	Families losing land under canal network	631
	Sub-Total (B)	631
	Total	726

Resettlement and Rehabilitation Plan

Measures for rehabilitation for PAF's

- Each PAF shall be entitled to a rehabilitation grant equivalent to 750 days minimum agricultural wages
- A provision of Rs. 10,000 per PAF is being kept for a one-time financial assistance to each khatedar in the affected family for loss of agricultural production
- A provision of Rs. 500/month for 6 months for one person per PAF shall be given for training
- Scholarship @ Rs. 500 per month to atleast 1 child per PAF for a period of 1 year
- One person from each affected family shall be offered necessary training facilities for development of entrepreneurship, technical and professional skills for self-employment
- Preference to willing landless labourers and unemployed affected persons while engaging labour in the project during construction phase

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- Compensation for land of Rs. 171.3 million as per the award by the District Administration
- In addition of above provisions Govt of MP has given additional land compensation to all PAF for Rs. 105.8 million at the rate
  - Irrigated land - 12.50 lac/ha
  - Un-irrigated land - 6.25 lac/ha

Budget for R&R Plan

S. No.	Components of R&R	Cost (Rs. million)
A	Rehabilitation Plan	
1.	Land required under "land for land" option = 332 ha irrigated land in the command area	
2.	Land development cost in case wasteland or degraded land is allotted	10.89
3.	Financial assistance for agricultural production	7.26
4.	Training to take on suitable jobs	2.18
5.	Scholarships	4.36
6.	Other Skill Development	2.18
7.	Training facilities for development of entrepreneurship, technical and professional skills for self-employment	4.36
8.	Rehabilitation Grant - in case "land for land" or "jobs in project" are not given	81.68
	Sub-Total [A]	112.91
B	Project Monitoring & Evaluation [B]	1.50
	Total [A+B]	114.41

Local Area Development Plan

- A budget of 0.5% of the project cost has been earmarked for implementation of Local Area Development Plan (LADP).
- It is proposed to upgrade the primary schools in 5 villages in the periphery of the affected villages.
  - Up-gradation of school infrastructure, equipment
  - Improvement of drinking water and sanitation facilities
  - School bus service
- Up-gradation of existing PHC as part of the LADP of the area
  - Furniture, Beds and other items
  - Up-gradation of Pathological laboratory
  - Up-gradation of operation theater

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Budget for Implementation of local area development plan

SN	Items	Budget (Rs. million)
1	Construction/ Up-gradation schools in Study Area	5.5
2	Improvement of Primary Health Sub-centre	2.0
	Total	7.5

Catchment area treatment plan

- Catchment area Treatment Plan has been prepared using SYI method.
- Delineation of sub-watersheds in the catchment area.
- Land-use pattern using satellite data, slope map using Survey of India toposheets, etc. has been prepared.
- Mapping of critically degraded areas based on Integration of Remote Sensing technique, GIS methodology and Silt Yield Index method.
- Prepared Catchment Area Treatment (CAT) Plan for sub- watersheds with high erosion intensity.

Proposed CAT Measures- Biological

S. N	Item	Rate/unit (Rs.)	Target	
			Physical	Financial (Rs. million)
1.	Gap plantation	45,000/ha	60	2.7
2.	Afforestation	50,000/ha	149	7.45
2.	Pasture Development	15,000/ha	131	1.96
3.	Social forestry	70,000/ha	25	1.72
4.	Nursery development	3,00,000/no.	5 no	1.5
5.	Maintenance of nursery	2,70,000/no	5 no.	1.35
6.	Barbed wire fencing	100,000/km	7 km	0.7
7.	Watch and ward for 3 years for 10 persons	5000/ man-month	360 man months	1.8
	Total (A)			19.18

Proposed CAT Measures- Engineering

SN	Item	Rate (Rs.)	Unit	Target	
				Physical	Financial (Rs. million)
1.	Contour Bunding	15000	ha	370 ha	5.55
2.	Check dams	40,000	No.	15No.	0.60
3	Silt retention	30,000	No.	5 No.	0.15

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	dams				
	Total (B)				6.30

Cost of Catchment Area Treatment

- Biological Measures - Rs. 19.18 million
- Engineering Measures- Rs. 6.30 million
- Administrative expenditure - Rs. 4.08 million

Total - Rs. 29.56 million

S. No.	Item	Cost (Rs. millions)
1.	Environmental Management in labour camp	0.60
2.	Restoration of Quarry sites	10.60
3.	Restoration of construction sites	3.00
4.	Water Pollution Control	1.50
5.	Air Pollution Control	2.72
6.	Bio-diversity conservation Plan	10.81
7.	Fisheries Management Plan	20.30
8.	Resettlement and Rehabilitation Plan	114.41
9.	Local Area Development Plan	7.50
10.	Catchment Area Treatment Plan	29.60
11.	Disaster Management Plan	15.0
12.	Purchase of meteorological instruments	0.70
	Total	216.74

Public Hearing

The proceedings of Public Hearing were discussed in detail. Major issues raised during the public hearing and the response of PP are as below:

Issues raised in public hearing

SN	Suggestion/Complaint	Response of WRD
1	Participants said that they have pattas of land but Irrigation department officials are telling they are unauthorized and demanded the compensation of land. They also requested that boundaries of the remaining land should be fixed	Application will be forwarded to the Revenue Department for taking the necessary action in the matter.

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2	One of the PAF said that he has 4.69 ha of land and canal is likely to pass through total area but has been paid the compensation only for 43 decimals of land. He demanded the compensation for the total land	Application will be forwarded to the Revenue Department for taking the necessary action
3	On PAF raised the issue regarding the compensation of his land. He mentioned that his land has been considered as unirrigated land, while he has a well in this land. Hence demanded the compensation as per the rates of irrigated land	Necessary action will be taken as per rules after inspecting the site.
4	Compensation has been received by cheque No 559146 and the same was deposited in bank on 30.10,12, but the amount has not been transferred in to my account	Necessary action will be taken in the matter. However, SDM Nasrullaganj informed that the case is pending with Hon'ble Court and appropriate action will be taken as per the Hon'ble Court's decision.
5	One of the PAF requested that canal may be aligned so as to avoid his well from acquisition	The alignment of canal has been approved by competent authority after conducting the detailed survey.
6	One of the participant said that his land will be getting affected, while the compensation is being paid to other farmer	Necessary action will be taken in the matter. However, SDM Nasrullaganj informed that the case is pending with Hon'ble Court and appropriate action will be taken as per the court's decision.
7	One of the PAF requested that canal may be re-aligned so as to avoid his well and mango trees being acquired. He also told that rain water may be stored at few places in the upper side of the canal.	Necessary structures will be constructed for passing the rain water properly

The response submitted by the PP is satisfactory and acceptable. The EIA, EMP and other miscellaneous submissions made by the PP were found to be satisfactory and acceptable. Hence the case was **recommended** for grant of prior EC subject to the following special conditions:

1. The water quality reveals high TDS hence irrigation department shall carry out detailed study to check the source of TDS accordingly appropriate treatment shall be carried out through experts.
2. SAR shall be analyzed periodically and reported to concerned authorities.
3. Using the analytical data sedimentation rate shall be studied so as to validate the design capacity and life of the dam.

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4. Catchment area treatment has to be optimized (and if required may be revised) using sedimentation study.

17. Case No. – 1699/2013 - M/s Lotus Infrarealty Ltd., Sr. Manager (Project) Shri Anupam Soni, NH-75, Panna Road- Satna , Distt. – Satna (M.P) – 485001 *Residential Plotted Colony at Khasra No. – 61/2/k/1, 62/k/2, 62/2/k/1,1/2, 2/1/k/1, 2/1/k/2, 2/2, 2/2/k/1/kh, 3/23/2/k,4/k/1/kh, 4/k/1/k/4,4/k/da/2, 4sa/3/2/k/1, 4k/1/k/2,4/k/1/k/3, 4/k/1/g, 4/k/1/gha, 4/k/1/da, 4/k/1/cha,Village – Majhbogva, Tehsil – Satna, Distt. – Satna (M.P.) (Total Plot Area = 85506.97 m2, Proposed FAR - 43,984.00 m2, Total Built up Area – 46,106.33 m2)* **Env. Consultant: Grass Roots Research & Creation (I) Pvt. Ltd. Noida (U.P.) For – Building Construction.**

The case was scheduled in the 136th meeting dated 23/07/2013. On request of PP and his consultant the case was considered in this meeting. It was submitted by the PP that the project is existing and as earlier plan was for built-up area of less than 20000 m^2. Committee deferred the case and decided to consider it only after submission of following documents by the PP:

1. Copy of lay out plan initially approved by the Town & Country Planning department along with the approval letter.
2. Copy of revised lay out plan approved by the Town & Country Planning department along with the approval letter.
3. Details of the submissions made to MPPCB for consents etc.
4. Other relevant papers in support of the statement made by the PP.

Carry forwarded Mining Projects with less than 5 Hec. Lease area

The cases were allowed for presentation on request of PP with due permission from the Chairperson.

1. Case No. 1256/2013 Shri Prakash Chandra Yadav S/o Shri Dhannalal Yadav, Village – Julwania, Tehsil – Rajpur, Distt. – Badwani (M.P.) 451551 ***Lease Area – 0.983,*** *Stone/Boulder Quarry (New). at Survey No. - 144,/2/4, 114/4, 114/2,5, 114/2/9, Village – Julwania, Tehsil – Rajpur, Distt. – Badwani (M.P.) Capacity – 10,000 Cubic.*

This is a case of mining of stone. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Survey No. - 144,/2/4, 114/4, 114/2,5, 114/2/9, Village – Julwania, Tehsil – Rajpur, Distt. – Badwani (M.P.)* in 0.983 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It

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is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of stone shall be restricted to *6500 m^3 / year and the average depth of the pits shall not exceed 7.00m at the end of 10 years.*
- Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- The validity of the prior EC & the lease shall be for a maximum period of ten years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

2. Case No. - 1382/2013 M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road - Mhow Distt. – Indore (M.P.) - 453441 *Ashapura Stone / Murum Mine at Survey No. – 127 & 135/1, Rau- Mhow- Mandleswar Road, Tehsil- Mhow, Distt. – Indore (M.P.). Lease Area – 3.182 Ha. Capacity – 15,000 Cubic Meter/Year, Lease Period – 02 Year.*

This is a case of mining of stone/murrum. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Survey No. – 127 & 135/1, Rau- Mhow- Mandleswar Road, Tehsil- Mhow, Distt. – Indore (M.P.)* in 3.182 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be

satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of stone/murrum shall be restricted to *15000 m^3/ year and the average depth of the pits shall not exceed 7.00m at the end of 02 years.*
- Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

3. Case No. – 1545/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Sand/Bajri Mine **Lease Area – 4.800 Ha.** at Khasra No. – 44 & 61, Village – Dusghat, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) Capacity – 3,000 Cubic Meter/Year. Lease Period – 02 Year.*

This is a case of mining of sand/bajri. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 44 & 61, Village – Dusghat, Tehsil - Khaknar, Distt. – Burhanpur (M.P.)* in 4.800 Ha. The project requires prior EC before commencement of any activity at site. It is reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity.

- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Sand shall not be extracted from the main stream of the river.
- Transportation of material shall be done in covered vehicles.
- Production of sand shall be restricted to *3000 m^3/ year.*
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

4. Case No. – 1546/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Khandwa- Dehtalai- Burhanpur (SH-54) Road on(BOT) Basis 127.44 km., Sand/Bajri Mine* ***Lease Area – 4.800 Ha.*** *at Khasra No. – 222, Village – Shikarpur, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) Capacity – 700 Cubic Meter/Year. Lease Period – 02 Year.*

This is a case of mining of sand/bajri. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 222, Village – Shikarpur, Tehsil - Khaknar, Distt. – Burhanpur (M.P.)*in 4.800 Ha. The project requires prior EC before commencement of any activity at site. It is reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Sand shall not be extracted from the main stream of the river.
- Transportation of material shall be done in covered vehicles.
- Production of sand shall be restricted to *700 m^3/ year.*
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

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5. Case No. 1547/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Sand/Bajri Mine* ***Lease Area – 4.980 Ha.*** *at Khasra No. – 88, 89, & 121, Village – Tembhi, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) Capacity – 2,000 Cubic Meter/Year. Lease Period – 02 Year.*

This is a case of mining of sand/bajri. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 88, 89, & 121, Village – Tembhi, Tehsil - Khaknar, Distt. – Burhanpur (M.P.)* in 4.980 Ha. The project requires prior EC before commencement of any activity at site. It is reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Sand shall not be extracted from the main stream of the river.
- Transportation of material shall be done in covered vehicles.
- Production of sand shall be restricted to *2000 m^3/ year.*
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

6. Case No. – 1548/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Khandwa- Dehtalai- Burhanpur (SH-54) Road on (BOT) Basis- 127.44 km., Red Soil & Murum Mine* ***Lease Area – 4.00 Ha.*** *at Khasra No. – 199/1, Village – Khaknar, Tehsil -*

Khaknar, Distt. – Burhanpur (M.P.) Capacity – 700 Cubic Meter/Year. Lease Period – 02 Year.

This is a case of mining of *Red Soil & Murum.* The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 199/1, Village – Khaknar, Tehsil - Khaknar, Distt. – Burhanpur (M.P.)* in 4.00 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mining operation is over.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of *Red Soil & Murum* shall be restricted to *700 m^3/ year and the average depth of the pits shall not exceed 4.00m at the end of 02 years.*
- Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

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7. Case No. 1549/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Red Soil, Boulder & Murum Mine* ***Lease Area – 4.500 Ha.*** *at Khasra No. – 10, Village – Rai Talai, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) Capa. – 8,000 Cubic Meter/Year. Lease Period – 02 Year.*

This is a case of mining of *Red Soil, Boulder & Murum*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 10, Village – Rai Talai, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) in* 4.500 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mining operation is over.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of *Red Soil & Murum* shall be restricted to *8000 m^3/ year and the average depth of the pits shall not exceed 4.00m at the end of 02 years.*
- Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**

8. Case No. – 1550/2013 Shri Gulab Chand Patidar (GM), M/s Prakash Asphalting & Toll Highways (I) Ltd., 76, Mall Road, Mhow, Distt. – Indore (M.P.) 453441 *Khandwa- Dehtalai-Burhanpur (SH-54) Road on (BOT) Basis- 127.44 km., Red Soil & Murum Mine* ***Lease Area – 4.00 Ha.*** *at Khasra No. – 69, Village – Sai Kheda, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) Capacity – 700 Cubic Meter/Year. Lease Period – 02 Year.*

This is a case of mining of *Red Soil & Murum*. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No. – 69, Village – Sai Kheda, Tehsil - Khaknar, Distt. – Burhanpur (M.P.) in* 4.00 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has decided to **recommend** the case for grant of prior EC subject to the following special conditions:

- The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mining operation is over.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of *Red Soil & Murum* shall be restricted to *700 m^3/ year and the average depth of the pits shall not exceed 4.00m at the end of 02 years.*
- Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- The validity of the prior EC & the lease shall be for a maximum period of two years only.
- Transportation shall not be carried out through forest area.
- PP shall take CSR activities in the region through the 'Gram Panchayat'.
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

Meeting ended with thanks to the Chair and the Members.

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[A.P. Srivastava, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[K.P. Nyati, Member]**