MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

139th MEETING 29th August 2013

1. **Case No. – 1701/2013 Shri Rishabh Mahajan, Director "Ruchi Lifescapes" of M/s Vishal Resorts & Hotels Pvt. Ltd., 2/1, South Tukoganj, Behind High Court, Indore (M.P.) 452001** *"Ruchi Lifescapes" at Khasra No. – 235/1, 235/2/1, 236/1, 239/1, 239/2, 240/2 , 252/1, 253, 254/1, 254/2, 256/1, 256/2, 256/3, 259/1, 259/2, 259/3, 260/1, 260/2, 260/31, 261/1, 261/2,Village- Jhalaria, Tehsil - Indore, Distt. – Indore (M.P.)* ***Total Land Area – 25,1500 sq.mt., Total Built Up Area – 53,938.22 sq.mt. (Total Maximum Heights of the project will be 18 Meter).*** **Building Construction. Env. Consultant : In Situ Enviro Care, Bhopal (M.P.)**

This is a building construction project comprising total plot area of ***25,1500*** m^2 and total built-up area of ***53,938.22*** m^2. The project is covered under the provisions of EIA Notification mentioned as item no. 8 of the schedule and hence requires prior EC before initiation of activity at site. It was reported by the PP that no activity has been taken up at site as of date and the task of construction shall be taken up only after obtaining prior EC and other necessary permissions from concerned authorities. The project was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

Salient feature of the project

Total Area Of The Plot	251500 Sq.mt
Proposed Builtï Up Area	53938.22 Sq.mt
Land Use	Residential
Building Height	18 m (max)
ROW	18 m Wide Road
Total Net Fresh Water Demand	671.0 KLD
Ground Water Supply	671.0 KLD
STP Capacity	925 KLD
Solid Waste Generation	3.40 TPD
Power Demand	5 MW
Back Up Source	750 KVA (D.G. Sets ï 6 x 125 KVA)
Description of project Unit	Duplexes - 82 Nos
Group Housing (G+6)	336 Nos.
EWS	280 Nos.
Other ï Plot development for the purpose of Duplexes, Apartment, Residential/Commercial, Convenience/Local shopping & School.	
Railway Station	Indore Railway Station ï 15.0 Km away from site
Air Port	Indore Airportï 22.0 Km away from site

Statutory approvals obtained

1. T & CP approval-indore- SN/6825/NGRANI/2012/Indore dated 06/11/2012.
2. Copy of Memorandum & Articles.
3. Copy of buildings permission from Gram Panchayat ï dated 17/11/2012.
4. Copy of permission for colony development from Indore Collector-dated 28/04/2012.
5. Colonizer registration - sn/19/2011 dated 18/03/2011.

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6. Tanker water supply agreement for construction phase.
7. Corpus fund letter along with an affidavit for creation of funds.
8. Copy of fire fighting NOC

Area statement

SN	Component		Area sq.mt.
1	Total site area as per revenue record		263600
2	Less area reserve for future expansion		12100
3	Area proposed development plan		251500
4	Area under master plan road widening		6082
5	Net planning area		245418
	Overall land utilization		
	Type	Area (Sqmt)	%
1	Plotted/Apartment Development/Informal	218,803	89.16
2	Group Housing	26615	10.84
	Total	245418	100
	Land Allocation (Plotted Development)		
	Type	Area(Sq. mts)	%
1	Roads	55,476	25.354
2	Gardens	22,007	10.058
3	Plottable Area	112,746	51.529
4	Multi utility plot	16,382	7.487
5	Convenience Shopping	144	0.066
6	Local shopping	775	0.354
7	Residential/commercial	1,142	0.522
8	Area for service Milk both, Dustbin, Transformer (physical)	752	0.344
9	Over Head Tank & S.T.P.	287	0.131
10	School	2,088	0.954
11	Club house and community hall	1,110	0.507
12	EWS (informer sector)	5,894	2,694
	Total	218803	100.00

Proposed source of water supply

1. In construction phase we will take water supply form the private tanker suppliers.
2. The Main source of water supply in operation phase will be existing bore well. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP.

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Water Balance:

SN	Item Description	Water Require KLD
1	Domestic Water Requirement	670.4
2	Flushing Water Requirement	341.5
3	Landscaping & other uses	325.0
4	Total Water Demand	1337.0
5	Available Treated Water through STP	820
	Net Fresh Water	**671.0**

Detailed water balance in the project as proposed:

Item Description	Number of Persons / Seats	Water Requirement / head (litres)	T.water Requirement (litres)
Fresh Water Requirement			
Apartments/Flats/Duplex	6,235	90	561150
EWS	1120	90	100800
Maintenance Staff	20	20	400
Commercial Shops	401	20	8020
Sub Total of A			670370
Flushing Water			
Apartments/Flats	6,235	45	280575
EWS	1120	45	50400
Maintenance Staff	20	25	500
Commercial Shops	401	25	10025
Sub Total of B			*341500*
Treated Effluent Water Requirement – Misc. Uses			
Landscaping			200000
Misc. ï Other Uses			125,000
Sub Total of C			*325,000*
Total water requirement (A+B+C)			*1,336,870* Or says 1337 KLD

Total Daily Water requirement	1337 KLD
Treated Effluent from STP @ 90% of STP Capacity	820 KLD
Fresh Water required from Municipal Water	671 KLD

STP:

- Treatment Concept: SAFF Based on Preliminary treatment + Aerobic biodegradation treatment followed by tertiary treatment.

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- Treatment objective: To use the water for safe disposal or to use the water in auxiliary purposes like flushing, gardening etc.
- Capacity : 925 KLD
- Operation : 20 Hours

Brief Description of Fire-Fighting

Automatic & Manual fire detection & alarm system

In order to detect the fire in its incipient stage, Manual call boxes, Electronic alarms; Integrated Public Announcement System is proposed in the entire Building of each Block. The system also incorporate, Auto dialers and all the Controls kept in a Centralized Control room of the building at ground/stilt level.

Fire hydrant/wet-riser/down-comer system

An independent fire hydrant ring main is proposed to run around the building. External Fire hydrants (Yard hydrants) provided on this ring header ï located approx. 30-45 M apart covering the entire building of each block. A total of 21 nos. in External yard hydrants is provided on 150mm dia. M.S. headers which laid in Ring form and the underground portion properly coated & wrapped against corrosion as per IS: 10221 by 4mm thick anticorrosive tape (Pypkot/ equal). Each of the yard hydrants consist of a 63mm dia. Gun metal/SS Oblique pattern hydrant landing valve which shall be properly protected in a glass fronted weather proof cabinet ï also housing required no. of Hose pipes & branch pipes with nozzles.

In addition to the ground external hydrants, the upper floors of the building including Ground and upper floors of the building in blocks provided with 1-nos., 100 mm Wet-riser in each block mains right up to the terrace. From each riser, 63 mm dia. internal landing values together with hosepipes & branch pipes provided at every floor including terrace of each block. A 20 mm dia. 30M long First Aid hose reel also provided near each internal hydrant and all these equipments neatly enclosed in a suitable hose cabinet flushed with the wall.

Automatic sprinkler system

As per the prevailing local By-laws, Automatic sprinklers system is not required in the apartments less than 45M in height. Automatic Sprinklers System is required in Basement (Parking Area) floor level but we not have any parking area. However, the still area at ground level is proposed to be used for car parking and this being covered parking.

Water supply

2nos. of Underground Water storage tanks of capacity 2,50,000 liters is proposed exclusively for the purpose of Fire Protection to adequately cover the entire building and individual Overhead water storage tanks of 25,000 liters in block A,B & C the terrace level of the building in each block.

Access to Fire Tenders:

A clear access way of 6.0 M wide with turning radius of not less than 9 M shall be made available around the building for easy movement of Fire tenders/rescue vehicles. This access way shall be always kept free from any obstruction as per the bylaws.

Solid waste

- Total solid waste generated will be around 3.40 TPD
- Biodegradable & Non-Biodegradable waste will be segregated at source in accordance with MSW (M&H) Rules, 2000.
- 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.

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- 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.
- 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.

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**

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- 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.

Å **Operational Phase**

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

Cost of Environmental Management Plan

Description	Capital cost (lac)	Running cost (lac/yr)
Air		
Construction Phase	1.5	
Operation Phase		0.6
Noise		
Construction Phase	1.0	
Operation Phase		0.4
Water and Land		
Construction Phase	4.0	
Operation Phase		0.6
Sewage Treatment Plant	60.0	23.63
Rainwater Harvesting & Storm Water Management	4.0	0.8
Solid Waste Management	2.0	0.6
Energy		
Lighting	10	0.8
Biological		
Landscaping	5.0	0.6

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Total	Rs. 87.5 Lac	Rs. 28.03 Lac/ Yr

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

- Water balance, sewage estimation and the capacity of the STP to be re-examined keeping in view the worst scenario case.
- Under taking from Municipal Corporation for supply of requisite quantity of fresh water for the project during operation phase.
- Storm-water management plan of the township after the township is completed to be furnished along with the related maps & drawings.
- Parking space in all the blocks has to be ensured to avoid parking on roads during operation phase.

2. **Case No. – 1702/2013 Globus Life Style P Ltd. Through Keshav Nachani Developer Ravindra Singh Bhatija, 176, M.P. Nagar, Bhopal (M.P.) 462011** *Globus Life Style P Ltd. at Khasra No. – 32/282/32/1/1, 32/282/32/1/2, 34/2, Village- Raslakhedi, Bhanpur, Tehsil - Huzur, Distt. – Bhopal (M.P.)* ***Total Land Area – 6.194. Ha., Total Built Up Area – 54,240 sq.mt.*** *for residential area dev. and 3212.15 sq.mt. for Plotted Area.* **Env. Consultant : Creative Enviro Sevices, Bhopal (M.P.) Building Construction**

This is a building construction project comprising total plot area of 6.194. Ha. and total built-up area of 54,240 m^2. The project is covered under the provisions of EIA Notification mentioned as item no. 8 of the schedule and hence requires prior EC before initiation of activity at site. It was reported by the PP that no activity has been taken up at site as of date and the task of construction shall be taken up only after obtaining prior EC and other necessary permissions from concerned authorities. The project was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

Salient features of the Project:

Project Proponent	Globus Life Style P Ltd through Shri Keshav Nachani
Developers	Shri Ravindra Singh Bhatija
Total Plot Area	6.194 ha
Total Built up Area	Total Built Up Area = 54240 sq mt for residential area development and 3212.15 Sq Mt for Plotted Area
Units Details	Total Number of Flats : 240 no + 30 (LIG) + 45 (EWS) + 252 Duplexes + 18 Plots
Location of Project	Raslakhdi, Bhanpur ,Tehsil- Huzur, Bhopal, MP
Khasra No.	Khasara No. 32/282/32/1/1, 32/282/32/1/2, 34/2
Occupancy	Own Land

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Geological Location	latitude 23^{0}18ôö16ôN and longitude 27^{0}25ò20ôE
Permission from T & CP	957/LP-230/29(3)/B-88/NAGRANI/JIKA/2011-12 dt 08.11.2012

Environmental Setting of Project

Criteria	Details
Nearest Highway	NH- 12 (Bypass) ï 250m
Nearest Railway Station	Bhopal Railway Station (~ 06 km)
Nearest Airport	Raja Bhoj Airport (~ 08 km)
Seismic Zone	II
Annual avg. Temperature	Max. 450 & Min. 6.00
Annual avg. Rainfall	1150 mm
Topography	Plain
Land use pattern	Commercial & Residential
Surrounding Feature	North ï Road followed by Township (Sukhsagar Phase ï IV) East - Road followed by Mall (people mall) South- Agriculture land followed by Wall mart West ï Road followed by otherôs land

Technical Features of Project

Project Requirement	**Details**
Plot Area	6.194 ha
Proposed Built-up Area	Total Built Up Area = 54240 sq mt for residential area development and 3212.15 Sq Mt for Plotted Area
Landscaped Green Area	7433.76 sq mt
Units	240 no + 30 (LIG) + 45 (EWS) + 252 Duplexes + 18 Plots
Total Population	3025 Nos.
Total Water requirement	395 m^3/day
Total Fresh Water requirement	264 m^3/day
Total waste Water Generation	339 m^3/day
Solid waste generated	1566 kg/day
No. of Parking proposed	7200 sq mt stilt and 135 sq ft for each duplexes

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Total Power requirement	2000 KW
Width of Road in front	12 m
Height of Building	18 m
Internal ROW	6.0 m
DG Sets	1 X 100 KVA
Nearest Fire Station	8.90km

Statement of Area

Statement of Areas		
S No	**Particular**	**Proposed**
	Total Plot Area	**6.194 ha**
	Total Built up area	**54240 sq mt**
1	Organized Open Area/Services Area	7433.76 sq mt
2		
3	Maximum Far	1:1.25
4	Road & Circulation Area	9158.52
5	Maximum Ground Coverage	30% i.e. 19120 sq mt
6	Front MOS Rear MOS M O S	12 m 6 m 6m
7	Maximum Height	Stilt + 18 mt

Particular	**Area in sq mt**	**Number of vehicle**	**Type of vehicle**
Basement	-	-	-
Stilt	7200 sq mt	240	04 wheeler
Ground and open	135 sq ft for each duplex = 3160.56 sq mt	252	-

Water demand

Water demand calculations for residential	
1	Occupancy Load = 5 Person / flat
2	Daily Water Demand = 135 lit/cap/day
Water demand calculations for commercial	
1	Occupancy Load = 1Person / 10 sqm
2	Daily Water Demand = 45 lit/cap/day
Water demand calculations for visitors	
1	Occupancy Load = 1 Person / 200 Sq.ft
2	Daily Water Demand = 15 lit/cap/day
Water demand calculations for club house	

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1	Occupancy Load = 1 Person / 200Sq.ft
2	Daily Water Demand = 45lit/cap/day
Water demand calculations for landscape	
	@ 5 Litres per Sq.m.

Water Balance

Total Water Balance												
SN	Description	Total Population	Water Requirement				Total Water	% flow to Sewer				
			Flushing		Domestic			Flushing		Domestic		Total waste water
			A		B		A+B					
			LPD	KLD	LPD	KLD	KLD	%	KLD	%	KLD	KLD
1.	Flats & duplexes (567)	2835	45	126	90	255	381	100	126	85	200	326
2	Plots :18	90	45	04	90	8	12	100	04	85	07	11
2	Visitors & Others	100	05	0.5	10	1.0	1.5	100	0.5	85	0.85	0.90
	Total						**395**		**131**		**208**	**339**

Strom Water Management Measures

- Separate and independent rain water drainage system shall be provided for collecting rain water from terrace, paved area, lawns and roads. Independent rain water down takes of appropriate size and number shall be provided in close coordination with architect.
- Perforated pipe drainage system shall be provided for open-to-sky courtyard/lawn. The storm water runoff from the ramp shall be separately collected and connected to sump.
- No storm water ingress shall be allowed into stilt portion. It shall be ensured to have electrical supply for all sump pump panel from electrical panel.
- Emergency supply shall also be made available to the sump pump electrical panel. It is also proposed to provide standby diesel engine pump for storm water drainage in inventory in case of extreme emergency.
- Provision of slit traps in storm water drains and regular inspection and cleaning of storm drains.

Fire Fighting Measures

- Overhead Fire storage tanks as per NBC 2005
- Fire Hydrant System
- Hydrant pumps, Sprinkler pumps & Jockey pumps.
- Hand Held Fire Extinguishers
- Trolley mounted CO_2 system
- Automatic Sprinklers System
- Wet risers, Fire Extinguishers, Hose Reel.

Air Pollution Control Management

Construction Phase

- Transportation of Raw material during Non peak hours

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- Idling of delivery trucks should not be permitted on roads
- Use of ready mix concrete carried in enclosed container
- 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
- Covered fencing around the site will be provided.

Operational Phase

- DG set will have appropriate stack height as prescribed by the Central Pollution Control Board
- Proper ventilation will be provided to all parts of the building
- Open burning of any waste shall not be allowed.
- Green belt area shall be 7433.76 sq mt area.

Solid Waste Management Plan

It is estimated that at about 1566 kg per day of waste will be generated from the facility during the operation

Construction debris

- Construction debris is bulky and heavy and re utilization and recycling is an important strategy for management of such waste. As concrete and masonry constitute the majority of waste generated, recycling of this waste by conversion to aggregate can offer benefits of reduced landfill space and reduced extraction of raw material for new construction activity.
- Recycled aggregate will be used for filler application, and as a sub base for road construction. Mixed debris with high gypsum, plaster, shall not be used as fill, as they are highly susceptible to contamination, and will be given to recyclers.
- Construction contractors shall remove metal scrap from structural steel, piping, concrete reinforcement and sheet metal work from the site. A significant portion of wood scrap can be reused on site. Recyclable wastes such as plastics, glass fiber insulation, roofing etc shall be sold to recyclers.

Operation Phase

Collection and transportation

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

Disposal

- With regard to the disposal/treatment of waste, the facility will disposed off the waste and STP sludge at trenching ground of Bhopal Municipal Corporation.

Noise Environment Management Plan

Construction Phase

- **Time of operation** - Noisy construction equipment should be permitted with suitable precautions.

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- **Job rotation and hearing protection** ï Workers employed in high noise areas will be rotated. Earplugs / muffs or other hearing protective wear will be provided to those working very close to the noise generating machinery.

Operation Phase

- **Noise Emission Control Technologies**: DG generator will have suitable acoustic enclosure which shall be designed for minimum 65 dB (A).
- Ambient Noise Monitoring shall be carried out as per direction of MPPCB

Energy Conservation

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

After deliberations SEAC has observed that the 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. Fresh water requirement for project shall not exceed 395 m^3/day.
2. Construction debris shall be recycled through conversion into aggregate as proposed by the PP
3. Green area shall be not less than 7433.76 sq mt .
4. Solar panels shall be installed for street lights and other utilities.
5. STP shall be regularly operated and maintained by the developer of the township.
6. Developer shall ensure compliance of all the terms and conditions of the EC.

3. **Case No. – 1703/2013 Gwalior Development Authority, Gwalior, M.P. Through Chief Executive Officer, Shri S.K. Mishra, Vikas Bhawan, 1, Ravi Nagar, Gwalior (M.P.) 474002** *Commercial Complex " Madhav Plaza " at Khasra No. – 756, Village – Lashkar, Tehsil - Huzrat Road,Lashkar, Distt. – Gwalior (M.P.)* ***Total Plot Area – sq.mt., Total Built Up Area – 54,240 sq.mt.*** *for residential area development and 3212.15 sq.mt. for Plotted Area.* **Building Construction Env. Consultant : Kadam Env. Con. , Delhi**

This is a case of building construction comprising total plot area of 41.484 hectare and total built-up area of **54,240** 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 started without obtaining prior EC and has reached to substantial levels. Thus, this is a clear case of violation of EIA Notification. Committee decided to return the case to SEIAA for taking necessary credible action and if need be, issue of directions for immediate suspension of

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construction at existing level, in light of the MoEF O.M. no J-110131/41/2006 ï IA- II (I) dated 12/12/2012 and dated 27/06/2013

4. **Case No. – 563/2010 M/s Khajuraho Minerals, Post Box No. 25, Toria House Tehsil & Distt. Chhatarpur-(M.P.) Pin – 471001** *Stone quarry 11.00 ha at village Bodoar, Teh- & Distt- Chhatarpur-(M.P.) Capacity – 1,50,000 MTA.* **EIA Presentation Env. Consultant : GRC I. (P) Ltd. Noida (U.P.)** ToR issued vide letter no 536 dt. 20/07/10.

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 the project in coming meetings as per turn.

5. **Case No. – 1704/2013 M/s Saicharan Properties Ltd. Through Authorised Signatory Mr. Sanjat Daga, 101, kalptaru Synergy, Opp. Grand Hyatt., Santacruz, East Mumbai (M.S.) 400 055** *Proposed " Residential & Commercial Development " Project of M/s Saicharan Properties Ltd. at Plot No. – 27, Yaswant Road, Tehsil &, Distt. – Indore (M.P.)* ***Total Plot Area – 12,626.00 sq.mt., Total Built Up Area – 62,262.67 sq.mt.*** *(28657.86 sq.mt. F.A.R. + 26565.60 sq.mt. Non F.A.R. + 7039.21 sq.mt. Basement Area.* **Building Construction. Env. Consultant : J.M. EnviroNet Pvt. Ltd., Gurgaon (Haryana)**

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. Request from PP was submitted for consideration of the case in the meeting scheduled for 30th August 2013. With due permission of the Chairman Committee agreed allow the PP for presentation in the meeting scheduled for 30th August 2013 subject to availability of time.

6. **Case No. – 1705/2013 Shri Raghuraj Singh Chourdiya S/o Shri Fateh Singh Chourdiya, R/o Rajmandir Complex, Neemuch M.P. 400 05** *Kandaka Limestone Mine at Survey No. – 142/2, Village - Kandaka, Tehsil – Jawad, Distt- Neemuch (M.P.)* ***Lease Area – 5.00 ha.*** *Capacity – 5,00,000 MT/Annum.* **ToR. Env. Consultant : Not disclosed.**

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 the project in coming meetings as per turn.

7. **Case No. – 684/2012 Shri Jasjeet Singh Walia, M/s Broken Hill Mining Company, 188, Rizwzn Bagh, Lalghati, VIP Road, P.O.- Bhopal, Distt. Bhopal (M.P.) – 462032** *Gidurha Laterite & Iron Ore Mine Khasra No.- 633,634,,397 at Village – Gidurha, Tehsil – Sihora, Distt. – Katni (M.P.)* ***Lease area – 9. 20 ha.*** *Capacity – 0.30 MTPA.* **EIA Presentation. Env. Consultant : GRC I. (P) Ltd. Noida (U.P.)** ToR issued vide letter no 313 dt. 22/06/12.

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This is a mining project comprising total lease area of 9.2 Ha. and production capacity of 0.30 MTPA of Laterite & Iron Ore. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site.

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

- Clarification from the competent authority regarding location of temple with respect to the mining site in response to the public hearing issue.
- Water budget to be re-calculated justifying all the resources and the associated impacts.
- Revised plantation scheme to be furnished.

Special conditions to be imposed:

1. STP to be installed for re-cycling of domestic waste water.
2. Ore shall be used for own use and not for sale in accordance to the lease deed.
3. EC shall be strictly subject to the decision of the Honôable Court in the matter regarding retention of lease deed with the present PP.

8. **Case No. – 1247/2013 Mr. Rajkumar Suhane, Managing Director, M/s Agro Phos(India) Ltd.. M-87, Trade Centre, 18, South Tukoganj, Indore (M.P.) – 452001** *M/s Agro Phos (India) Limited, Plot No.- 135-A to 138-A, Industrial Growth Centre – Meghnagar, Distt, - Jhabua (M.P.) (a) Single Super Phosphate(Powder/Granulated) – 115500 MT/Year., (b) Dicalcium Phosphate – (DCP) 3300 MT/Year.* **EIA Presentation. Env. Consultant : Klean Laboratories and Research (P) Ltd. Pune (M.S.)**

Considering the products & project location of the proposed project it is observed that the proposed project falls under *Category 5 (a) "B"* of the Schedule ï I of EIA Notification hence it requires prior EC under the provisions of EIA Notification. The Application and later EIA report were forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The salient features and various submissions were made by the PP and his consuiltant which reveals following:

Proposed Project

- The proposed new unit shall be set up at Plot no 135 A to 138 A, Industrial Growth Center, Meghnangar , District Jhabua, Madhya Pradesh.
- Proposed Project Cost ï Rs. 10.35 Crores
- Proposed Product ï
- Single Super Phosphate SSP (Powder/Granulated) ï 115,500 MT/Year (350 MT/Day)
- Dicalcium Phosphate (DCP) ï 33,00 MT/Year (10 MT/Day

Details of Finish Product & Raw Material

Products to be Manufactured

- The proposed project is for the manufacture of SSP, GSSP and Di calcium Phosphate . The production capacity planned is as follows:
- Single Super Phosphate SSP (Powder/Granulated) ï 115,500 MT/Year (350 MT/Day)
- Di calcium Phosphate (DCP) ï 33,00 MT/Year (10 MT/Day)

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Raw material required for SSP & DCP

- Rock Phosphate ï 213 MT/Day
- Sulphuric Acid ï 138 MT/Day
- Calcium Carbonate ï 5 MT/Day

Water Balance:

SN	Station	Input in lit/day		Loss In lit/day	Reason For Loss	Effluent in lit/day
		Fresh water	Recycle water			
A.	Domestic purpose	20,000	0	5,000	Consumption & evaporation	15,000
B.	Industrial purpose	10,000	*60,000	70,000	Consumption	Nil
C.	1.SSP acid dilution	70,000	0	10,000	Consumption & evaporation	*60,000
		75,000	*75,000	75,000		*75,000
	2. Scrubbing	15,000	0	15,000	Consumption & evaporation	Nil
	3. DCP PLANTATION				Consumption & evaporation	
		190,000	*135,000	175,000		15,000

Scrubbing water will be reused in process

*** DCP effluent is recycled back in process**

Effluent treatment process methodology:

The industrial effluent (Washing, Overflow, Leakages) will be collected in a 10,000 Liter capacity RCC AHR brick lined. This effluent will be sent to reaction tank by gravity. In this tank Lime solution will be added for neutralization of effluent. Lime will be mixed with the help of reaction tank mixer. This coagulated effluent will be sent to hopper bottom settling tank. Chemical sludge will settle at bottom and this sludge will be dried with help of Sludge drying beds and dry sludge will be sent to SSP godown for reuse. Clear supernatant will be collected in treated water tank and same will sent back to process. This will ensure the Zero discharge.

The industrial effluent treatment plant will be as follow

- Å Effluent collection sump of 10 m^3 capacity
- Å Reaction tank with mixer (1000 mm x 1000 mm x 1500TD)
- Å Hopper bottom settling tank of 10 m^3 capacity
- Å Sludge drying beds 4 nos.
- Å Domestic effluent will be treated in Septic tank

Permission for supply of Water

It was reported by the PP that As per office order of Industries and Commerce Department Government of MP vide order no F B 16/82/11/8 dtd 15.3.2004 all the facilities including Water supply, Power supply and Infrastructural support will be provided to all the new units coming up in AKVN. Meghnanagr is one of the AKVN area. Accordingly demand for supply of water has been submitted the to AKVN by the PP.

Environmental Scenario

Predicted incremental concentrations

Description	Maximum ground level concentrations (mg/ m3)

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Stack attached to SSP Scrubber GSSP plant DCP Plant	PM	So2	Nox	Hf
	2.68	1.28	0.46	0.08
Maximum 24 Hourly concentration				
Pollutant	Maximum baseline concentration (mg/ m3)	Incremental concentration (mg/ m3)	Resultant concentration (mg/ m3)	Limits as per CPCB (mg/ m3)
PM	70.24	2.68	72.92	100
S02	26.07	1.28	27.35	80
Nox	32.74	0.46	33.2	80
HF	2.4	0.08	2.48	60

Details of HW – Expected HW from the industry is only spent oil from DG sets:

SN	Process generating HW as per Schedule I	Type of Waste	Quantity	Disposal
1	5.1	Spent oil/Used oil	0.75 MT/year	Reused for lubrication to the maximum extent and balance will be sold to authorized re-processor.

Green area development:

The industry has a total plot of 8821 Sq Mtr out of which 4000 Sq Mtr will be used for greenbelt development. Trees, hedges and ground cover varieties will be used for plantation. Management has reserved Rs. 15 Lac for Green Belt Development

Environmental Management Plan

Detailed environment management plan has been provided with specific reference to

- Air pollution control system
- Water and Waste Water management
- Solid and Hazardous Waste management
- Management plan for mitigation measures
- Greenbelt Development plan
- Post Project Monitoring

Breakup of Cost for Environmental protection

SN	Particulars	Rs (Lac)
1.	Bag house for Ball Mill dust collecting system	1.75
2.	Venturi Scrubbers 3 nos. for fluorine scrubber including chimney	20.29
3.	Dike wall for 500 MT of sulphuric acid storage	1.50
4.	Environmental laboratory with monitoring equipment.	5.50
5.	Tree plantation and rain water harvesting	2.50
6.	Waste Water treatment plant	3.00
7.	Solid and hazardous waste storage	6.00
8.	Internal roads and dust control	36.35

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	Total	76.89

CSR: social welfare & up-liftment activities

APIL is known for actively participating in social welfare program and organize the social activities. They directly organize various programs for social welfare & up liftment of society. They contribute in activities conducted by other organizations by providing financial & other aids. They believe in success, with the trust and support of the local communities.

APIL has created following facilities for welfare of its employees and of local communities:

- Å Free medical help for staff as well as their family. There is 24 x 365 facility of first aid and availability of Doctor in the factory premises on emergency/call.
- Å Financial support extended for the education and welfare of visually impaired students.
- Å To provide a source of livelihood to needy women.
- Å Financial support to Meghnagar AKVN Industrial association for betterment of AKVN.

Budgetary provisions for csr:

- Å APIL has decided to earmark 5% of the total cost of the project towards the Social welfare program in a period of 10 years based on locals need . The funds will be utilised through local SDM, Tehsildar and AKVN Industrial association.

SN	Activity	Yearly Budget Rs. lac
1	Medical Check up of all Employees	0. 50
2	Medical Check up camp for surrounding villagers	1.0
3	Eye, Blood donation and HIV test camps	1.0
4	Financial support extended for the education and welfare of visually impaired/ physically challenged students.	1.5
5	To provide a source of livelihood to needy women	1.0

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

- Chemical composition of the Rock Phosphate to be submitted along with the nature of associated minerals.
- Proposed On-site emergency plan.

9. **Case No. – 1706/2013 Shri Venishankar Upadhay, Ward No. – 5, Tehsil – Sihora, Distt. – Jabalpur (M.P.) – 483225** *Gandhigram Iron Ore & Laterite Mine* ***(ML Area – 4.98 ha****.) at Khasra No. – 1547, Village – Gandhigram, Tehsil – Sehora, Distt. – Jabalpur (M.P.) Proposed expansion in production Capacity from 2564 T/Y to 82,400 TPA., Lease Period - 20 Years (20/02/2009 to 19/09/2029)*ToR **Env. Consultant : J.M. Enviro Net Pvt. Ltd., Gurgaon (Haryana)**

This is a mining project comprising total lease area of 4.98 Ha. The mine is reported to be operating with Laterite & Iron Ore production capacity of 2564 T/Year. PP has applied for EC in view of enhancement in production capacity up to 82400 T/Y. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site. Mining lease is valid up to September 2029. PP and his consultant presented the case before the committee.

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After deliberations committee has approved the proposed TOR to carry out EIA and prepare effective EMP for the proposed project with inclusion of following additional points:

- Certified distances of the nearest settlement and forest boundaries to be submitted with EIA.
- One of the AAQMS shall be placed towards the RF border and one towards the border facing National Highway which is reported to be 150 meters from the lease area boundary.
- Cummulative impacts to be evaluated considering all the mines in the region.
- Inventory of all the mines operating / proposed within the 500 meters around the proposed site to furnished with EIA.
- A broad EMP to be followed by the mine operators of the region to be prepared with budgetary provisions.
- Other standard TORsôshall be applicable.

10. **Case No. – 695/2012 Shri Pradumna Trivedi, Partner, M/s J.K. Minerals "Gayatri Kripa" Ward No.- 5, Balaghat Road, Waraseoni, Distt. – Balaghat (M.P.) – 481331** *G.F. Sonewani Range Manganese Ore Mine of M/s J.K. Minerals, at G.F. Sonewani Forest Range (10.0 ha.) khasra no. 460,461,466 Village – G.F. Sonewani Forest Range, Tehsil – Lalburra, Distt. – Balaghat ,(M.P.) Mine lease area – 10.0 ha. Capacity:10,000 TPA.* **EIA Presentation Env. Consultant : Creative Enviro Sevices, Bpl.(M.P.)** ToR issued vide letter no 323 dt. 22/06/12.

This is a mining project comprising total lease area of 10 Ha. and production capacity of 10, 000 MTPA of Manganese ore. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site. The under-ground mining is proposed in the forest land. Mining technology proposed is Other than Fully Mechanized (OTFM). PP has already obtained Forest Clearance. It was reported by the PP that no activity has been taken up at site as of date and the task of construction shall be taken up only after obtaining prior EC and other necessary permissions from concerned authorities. The EIA / EMP/ Public Hearing proceedings were forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

Back ground of project

Production Capacity	10, 000 MTPA
Jurisdiction of Mine	Forest Land
Public Hearing	20.06.2013
Location of Mine	G. F. Sonewani Forest Range, Tehsil- Lalburra, Dist.- Balaghat
Forest Compartment	No.460, 461, 466
Lessees	M/s J. K. Minerals, Main Road, Balaghat (MP)
Altitude	425-376 AMSL
Capital Cost of project	Rs. 1.0 Crore

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Lease Sanction details	Letter no 5-19/2010/M-IV dt 05.03.2010

Environmental setting of project

Village & Forest Range	G. F. Sonewani Forest Range
Tehsil	Lalburra
District	Balaghat
Khasra no./ Compartment No.	460, 461, 466
Lease area	10ha
Latitude Longitude	21°52ô42.422ò to 21°52ô59.524ò N 79° 58ô13.191ò to 79°58ô35.665ò E
Boundary Co-ordinates	1. 21°52ô58.544ò N - 79°58ô35.609ò E 2. 21°52ô57.417ò N - 79°58ô30.274ò E 3. 21°52ô52.400ò N - 79°58ô24.100ò E 4. 21°52ô42.422ò N - 79°58ô16.788ò E
General ground level	376m
Elevation range	Highest - 425m RL Lowest - 376m RL
Nearest National/State Highway	Waraseoni ï Lalburra - 7.25km - EES
Nearest Railway Station	Sawangi - 9.50 km- SSE
Nearest Airport	Nagpur - 121km
Nearest Tourist Place	None within 10km radius
Archaeological Important Place	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10km radius.
Reserved / Protected Forest within 10km radius	G. F. Sonewani Forest Range
Nearest major city with 100000 population	Nil within 10km radius.
Nearest Town / City within 10km radius	Lalburra - 10.25 km - NE
Nearest Village	Waratola - 2.75 km - SW
Nearest River	Sarathi Nadi - 6.0km - NE
Near by surface water bodies	Sarathi Tank - 5.00km - N Kamti Talav - 4.50km - SE Katangjhari Tank - 3.30km - SSW Chapa Tank - 5.70km - SW Dokhariya Nalla - 7.75km - SW Mahadeo/Kas Nalla - 4.15km - WWS Tondia Nala - 5.90km - SE Pathri Talav - 8.75km - SE Katangjhari Canal - 4.30km - SSW
Nearest Hill Ranges	None
Other mining lease falling within the 10km radius	1. AP Trevedi & Sons ï Ramrama 2. J.K. Minerals ï G.F. Sonewani 3. J.K. Minerals ï Katangjari (02)

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	4. Sandesh Developers ï Kamti 5. Pacific Minerals Pvt. Ltd, Netra 6. DP Rai, Botejhari (02mines)
Industrial activity falling within the 10km radius	M/s Ramnik Power & Alloys, Sarandi

Conceptual Plan

Items	Existing	At the end lease period
Total lease area	**10.0 ha**	
Area under pits	Nil	Underground working
Area under Dumps	Nil	Nil
Infrastructure & Road	Nil	Nil
Mineral storage	Nil	Nil
Plantation	10 ha with 0.5-0.6 density (Undisturbed)	
Water reservoir	Nil	Nil

Proposed method of the project: Underground Mining Method / OTFM.

The ML area falls under the forest where surface mining in not permitted to preserve the forest cover. An underground working is permitted under stringent conditions laid down by the forest department.

Proposed mining method:

Access/ entries to underground workings:

Ore deposit is approached by underground method i.e. by inclines, x-cuts, drives, winzes/raises etc. as mining lease area falls under forest area. Proposed mining lease is adjoining the other lease of 33ha and belong to same lessee. Hence accesses/entries of 33ha ML is proposed to be utilized for access to proposed 10ha mining lease area.

Proposed EMP

Air Pollution Contorl Measures

Following air pollution control measures will be taken to minimize negative impact due to mining activity.

- The approach road from lease area to PWD road (about 3.5km) is kuccha Road. Thick plantation on both side of road is observed, which help to attenuate the fugitive emission. Water spraying is already in practice on same road a and same will be continue in future also
- Proper maintenance of haulage and roads, which shall be used for transportation of material
- Thick plantation is observed along the mining lease boundaries which will help to reduce the spread of dust
- Existing over burden dumps lying at adjacent lease has already been stabilized with legumes and grass to prevent the erosion of soil and arrest the dust emission during windy days.
- Water has been sprayed over the muck pile to reduced the dust generation and same practice will be adopt for subject proposal
- Dust mask has been provided to all workers working in dusty atmosphere and new workers shall also be provided with PPE
- Regular maintenance of vehicles has been carried out in order to control emissions;
- The mineral reject is advised to use for maintenance of road, which will prevent the fugitive emission.

Water Pollution Control Measures

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- Waste will be dumped in adjoining lease area. Garland drains has been made along the existing waste dumps, which is 1200m long and 0.25 deep and help to restrict/retain the loose particles.
- The nalla flowing from lease area shall be provided embankment on both side. No new tunnelling/underground working is proposed under the section of nalla.
- It is proposed to drop the seeped water at nalla and pond located to nearby of area, which will help to regain the ground water profile of area.
- The subject project will not generate any wastewater. However, small quantities of domestic waste water will be released from the mines site for which septic tank and soak pit provided.
- The nearby water body is Chapa tank, Katangjhari tank (Pond) and Kas nalla (Mahadeo nalla), which are 5.70km, 3.30km & 4.15km away in SW, SSW and WWS direction respectively. One seasonal surface water channel has been observed within lease area. No Dumping of waste is proposed in subject lease area. Mineralized rejects will be generated, which is about 15% of ROM; will be stored over existing dumps of adjoining lease area of 33ha.
- The seepage water shall be drained to Kas Nalla and pond, which in turn help to raise the water table of the area.

Solid waste management

- The ML area defined as forest area where surface mining in not permitted for preservation of forest covers. Underground working is permitted under stringent conditions to ensure minimum damage to forest land.
- The lessee has carried out massive plantation over adjoining lease areas. In proposed underground mining operations, generation of soil is not envisaged.
- The mine waste consists of pegmatite veins in ore body, clay pockets and silicious Manganese ore and Gondite and mineralized rejects, fines etc. Most of the developments are proposed in ore body itself, hence no waste is expected to be generated.
- Mineralized rejects will be generated from sizing of ore, which is about 15% of ROM; will be stored over existing dumps laying at adjoining lease area (15ha). During the first five year about 7058 m^3 mineral reject will be generated.
- Though surface cover of land will not be disturbed but it is addressed to plan the backfilling of complete exhausted portion of the underground working to protect the strength to the existing land use. It is also advised to make effort for densification of existing green cover of the lease area.
- Garland drain has already been made around the existing waste dumps lying at nearby lease area.
- The reject will be utilized for backfilling and maintenance of road of the area.

Public Hearing Proceedings:

Public hearing was conducted on 20.06.2013 from 04.00 pm at the mine site, Village- G. F. Sonewani, Dist Balaghat (MP). Total 127 people have attended the public hearing. In general the public opinion was in favour of the project. No adverse comments were observed in the public hearing.

Socio-economic activities already carried out by lessee

Activity	Amount in Rs
Donated A College Building in the Balaghat for higher education	Approximate cost of Building is Rs. 5,00,000/-

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Eye camp at Village Ramrama	Rs. 37000/-
Regular supply of material for maintenance of village road	-
Donation to Red Cross Hospital for improving the environment near Rani Talab	Rs. 50,000/-
Creation Charitable trust for helping needy & deserving cause	-
Construction of High School Building at Village Katangjhari	Rs. 17.00Lac
Medical check up of employees and their family each year	Rs 1.0 Lac
Additional fund for socio economic development for each year	Rs 2.0 Lac

PP was asked to enhance the CSR budget to Rs 5.5 Lac / Year for which PP has agreed in the meeting.

After deliberations SEAC has 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. The nalla flowing from lease area shall be provided embankment on both side. No new tunnelling/underground working is proposed under the section of nalla.
2. All conditions laid down by the forest department shall be complied with.
3. CSR as proposed shall be taken up in coordination with the Gram Panchayat and Local Authority.
4. PP shall ensure that no dumping of waste is done in the subject lease area. Mineralized rejects will be generated, which is about 15% of ROM; will be stored over existing dumps of adjoining lease area of 33ha.

11. **Case No. – 1709/2013 M/s GMV Pvt. Ltd. through Director Jaydeep Singh, I^st^ Floor, Virndavan, 4, Malviya Nagar, Bhopal (M.P.) – 462003** *Ananta of M/s GMV Pvt.Ltd. at Khasra No. – 61, Village- Bagali,Tehsil -Huzur, Distt. – Bhopal (M.P.)* ***Total Plot Area – 40470.00 sq.mt. (4.047 ha.) Total Built Up Area – 24872.32 sq.mt.*** **Building Construction**
Env. Consultant: In Situ Enviro Care, Bhopal (M.P.).

This is a case of building construction comprising total plot area of **40470.00 sq.mt.** and total built-up area of **24872.32** 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. Scrutiny of the documents revealed that the land is owned by Shri Patidar, whereas, the applicant for the project M/s GMV Pvt. Ltd. is only the developer. It was observed by the committee that the (applicant) i.e Developer of the project shall leave the site once the project is completed . Under such conditions, the land owner have share the responsibility of complainces of EC conditions along with the Residents Society which shall be formed only after the houses are sold and occupied by the residents. Hence, PP was asked to submit a revised application in name of the current Owner of the land whereas, the Developer can remain as associate to the Owner. The case shall be taken up only after receipt of revised application through SEIAA.

12. **Case No. – 659/2011 Shri Neeraj Kumar Jain, Sawarkar Ward, Nai Basti, Katni, Distt. – Katni (M.P.) - 483001** *Budhanwara Laterite and Red Ocher Mine at Khasra no. 339/543, Village- Budhanwara tehsil- Bohriband Distt.- Katni (M.P.) Area- 15.00 Ha. Proposed*

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production Capacity – 16,500 MTPA. **For – EIA Presentation. Env. Consultant : PECS. Nagpur (M.S.)** ToR issued vide letter no 161 dt.18/04/12

This is a mining project comprising total lease area of 15.0 Ha. and production capacity of 16500 MTPA of *Laterite and Red Ocher*. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site. Application & than the EIA were forwarded by SEIAA to to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee which reveals following:

Salient features of the project site:

Features	Details
Reserved Forest	Nil
Protected Forests	None
Villages/Habitation	None
Canal/River/ Major Stream	None
Proposed lease area	15.00 Ha
Govt. Revenue Land	15.00 Ha
Forest Land	Nil

Environmental settings of the project:

Features	**Details**	**Distance**
Village	Budhanwara	1.5 km
River	Suhar River	4 km (N)
Reserved Forest Protected Forest	Nil Nil	-
National Highway	NH-7	7 km
Plantations	None	-
Industries	None	-
Thermal Power Plant	None	-
Mines	Yes	About 500 m.
Railway Line	None	-
Archeological Monument	None	-
National Park	None	-
Wildlife Sanctuary	None	-

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Interstate Boundary	None	-

Salient features

- The mining lease is located at Village - Budhanwara, Tehsil ï Bahoriband, District - Katni M.P.
- It is proposed to mine 20,000 M.T./per annum Laterite and Red Ochre from this mine.
- The applied area is having three hillocks and this forms a rolling topography on the central side. This hillock having slope in the north and south direction. The applied area is a part of the Lateritic/ murrum mounds. The average thickness of Laterite is 3 m to 4 m in this area below which ochre is present.
- The Entire applied area is mineralized except southern part.
- Plantation will be done on 33% of the total mine lease area. Initially plantation will done in barrier zone and sides of the mine roads.
- The red ochre in the applied area is red to crimson red in colour, massive and amorphous and on applying pressure it becomes in powder form. Its hardness is about 2.5 and bulk density is 2.1.
- The groundwater in the study area occurs in shallow aquifers at a depth of about 18 m to 20 m.
- The general drainage pattern is dendritic. Which follows the natural course i.e. towards in north and south and these drainages are seasonally active.
- The Proposed mining will be carried out by opencast manual of mining using tools such as chisel, Crowbar, hammer. Mining activities such as excavation, haulage and transportation of mineral up to loading point will be done manually, using can baskets and tagari.

Public Hearing discussion

- The public hearing was conducted on 31.01.2013 at mine site.
- 56 people Participated in Public Hearing.
- There was positive response from the participants as the project is likely to provide employment opportunities.
- Gram Panchayat Budhanwara has opposed the Mining Project on private land in view of the impact on animal and domestic life. PP has responded that the improve the life quality in the region. Also it was pointed out by the PP that lease has been granted on pahar-chattan land and is not going to effect the Charnoi land of animalsd.
- Shri Mahesh Prasad of Budhanwara has demanded housing, medical and other facilities in the village, to which PP has responded.
- Beside above some more people have demanded various facilities such as public toilets, drinking water facilities, etc. PP has responded the issues satisfactorily.
- In general the Public opinion was in favour of the project.

EMP proposed in the Project

Air quality management

- Haulage roads will be frequently sprinkled with water.
- Regular maintenance of vehicles and machineries will be carried out in order to control emissions.
- Green belt development would be taken up all along the haul roads and overburden dumps.

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- Protective appliances will be provided to all the workers exposed

Water quality management

- During first five year mining will be limited to a depth of only 07 m from the surface and there will not be any interference of mine excavations with the ground water table.
- There will not be any mine drainage problem.
- There may be accumulation of surface water during rainy season which will be pumped out through pump.

Waste management

- The waste generated from mining operations is alluvial soil and murrum which is inorganic in nature and does not react with water or air hence no possibility of chemical pollution is envisaged.
- The details of Laterite and Overburden waste generated during proposed mining is as follows:

Year	Laterite (Sub ï Grade) M^3	Mine Waste / OB 30 (%) M^3
1st	6292	1495
2nd	7452	2106
3rd	7452	2106
4th	Nil	2318
5th	Nil	2115

Break up of corporate social Responsibility

Sr. No.	Activity/Items	Units	Amount Rs. (Lacs)	
			Unit cost	Total cost
Capital Investment				
1	Drinking Water (Handpump) for village Budhanwara.	2 nos.	1.5	1.5
2	Aid for repairing and construction of toilet and Aanganwadi at Kurro village.	2 nos.	1.0	2.0
	Capital investment total			3.5
Recurring annual expenses				
1	Medical camps- eye check up, HIV/AIDS awareness, general check up and distribution of free medicines, spectacles, and support to eye operation for required patients.	2 per year	0.75	1.5
2	School Books, stationary, uniform, raincoat, sport items	Lumpsum	--	0.50
3	Plantation in village and along road side with tree guards	100 trees	0.005	0.50
	Recurring annual expenses total			2.50

Proposed environmental management Budget

Activity	Capital Investment	O & M Expenses per annum
Water Pollution Control System	Rs. 2.00 Lacs.	Rs. 20,000/- per annum
Dust Suppression by water spraying on internal Road by water tankers	Rs. 4.00 Lacs.	Rs.40,000/- per annum

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Plantation	Rs. 3.00 Lacs	Rs. 30,000/- per annum
Providing Mask, ear muffs to workers	Rs. 1.00 Lacs	Rs. 10,000/- per annum
Environment Monitoring	Nil	Rs.2.50 Lacs

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

1. Mineral wise production capacity figures to be furnished.
2. Written commitment for all the issues (such as maintenance of local roads, provisions of public toilets etc.) raised and committed by the PP in the Public hearing to be furnished.

13. **Case No. - 821/2012** **Shri Arun Kumar Dongsare, Budhwari Bazar, Narmdajee Ward, Mandla, Distt . -Mandla (M.P.)** *Kakaiya Dolomite mine at Khasra No. 1488/2 Village – Kakaiya, Tehsil – Bichiya, Distt. – Mandla (M.P.)* ***Lease Area – 1.40 Ha.*** *Praposed Capa. – 6712 MT per year* **For - ToR** **Env. Consultant: CES, Bhopal (M.P.).**

This is a mining project comprising total lease area of 1.40 Ha. and production capacity of 6712 MTPA of Dolomite. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site. Application for EC has been forwarded by SEIAA to SEAC for scoping so as to determine the TOR to carry out EIA / EMP for the project. The case was presented by the PP and his consultant. During presentation it was informed by the PP that the site exists in forest land and FC has already been obtained. It was also informed by the PP that legal action against the PP has been initiated by MPPCB for the violation committed by the PP in past.

After deliberations committee has approved the proposed TOR to carry out EIA and prepare EMP for the project with inclusion of following points:

- Production figures since from 1994 onwards have to be furnished after due validation from Mining Department.
- Certified distances of the nearest settlement and forest boundaries to be submitted with EIA.
- One of the AAQMS shall be placed towards the forest border.
- Cummulative impacts to be evaluated considering all the mines in the region.
- Inventory of all the mines operating / proposed within the 500 meters around the proposed site to furnished with EIA.
- A broad EMP to be followed by the mine operators of the region to be prepared with budgetary provisions.
- Other standard TORsôshall be applicable.

14. **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)* **For – Building Construction.** **Env. Cons. : Grass Roots Research & Creation (I) Pvt. Ltd. Noida (U.P.)**

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This is a building construction project comprising total plot area of 6.194. Ha. and total built-up area of 54,240 m^2. The project is covered under the provisions of EIA Notification mentioned as item no. 8 of the schedule and hence requires prior EC before initiation of activity at site. It was reported by the PP that no activity has been taken up at site as of date and the task of construction shall be taken up only after obtaining prior EC and other necessary permissions from concerned authorities. The project was earlier appraised in the 136th SAEC Meeting dated 25th July 2013. 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.

PP has submitted the above mentioned documents. According to which the first building permission was accorded by Gram Panchayat Babupur, Janpad Panchayat Sohawal Distt. Satna (M.P) vide letter dated 05/04/2012 for built-up area of **16516.21 m^2**. Later, PP has obtained building permission for total built-up area of **34798.84 m^2** vide letter dated 11/10/2012. Thus with expansion in the built-up area above 20000 m^2 the project required prior EC hence it was observed by the committee that the project does not falls under the violation category. Accordingly, PP and his consultant were allowed to make the presentation before the committee. The presentation and the submissions made by the PP reveals following:

Salient Features of the Project:

- This is a Residential Plotted Colony located at Village Majhbogva, Distt. Satna, (M.P.)
- Total Plot area of this project is 94,326.02 Sq. m. and application has been filed for EC having plot area 85,506.97 Sq. m. (or 21.1 Acres).
- Colonizers License has been granted in the name of M/s Lotus Infrarealty Ltd.
- They have been successful in providing specifically designed plots to the elite professional keeping in mind their daily needs and their exquisite taste in lifestyle.

Locational features

SN	Features	Description	Distance & Direction
1.	Nearest Airport	Satna Airport	7.79 km (ESE)
2.	Nearest Railway Station	Satna railway station	5.50 km (ENE)
3.	Nearest National Highway	NH-75	Adjacent to the Project Site
4.	Nearest Temple	Hanuman Temple	3.20 (SE)
5.	Nearest School	St. Michel School	1.68 km (NE)
6.	Hospital	Samaritan Hospital	3.45 km (SE)

Project area details

SNo	**Particulars**	**Area (in m^2)**
1.	Total plot Area	94,326.02

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2.	Total Plot Area for Residential part (EC applied for)	85,506.97
3.	Total Road Area	25,896.86
4.	Net Planned Area	59,610.11
5.	Ground Coverage Area (@ 0.26 % of Total Plot area)	22,140.36
6.	Total Residential (FAR) (@ 0.51 % of Total Plot area)	43,984.00
7.	Total Open Area + Total Open Area Besides Nalla	13,504.07
8.	Area for Informal Sector • Area required for Built-up (25%)	8,489.34 2,122.33
9.	Landscape Area (@ 32.6 % of plot area)	27,892.27
10.	Total Built Up Area Å Constructed BUA (20% of Total BUA) Å Remaining BUA area to be constructed (80% of total BUA)	46,106.33 9,000 37,106.33

Project details

Project features	Description
Estimated Population	1,994 persons (Residents, Staff & Visitor)
Estimated Water Requirement Construction Phase Operation Phase	185 ML (Agency: Municipal Supply) 399 KLD (Fresh Water = 244 KLD)
Estimated Wastewater Generation	194 KLD
Power Demand Power Back-up	1336 kVA 150 kVA
Source of Power	Madhya Pradesh Electricity Board (MPEB)
Solid Waste Generation	875 kg/day
Parking Facilities	Parking shall be within the plots & plot owners will be responsible for providing parking within their plots.

Water requirement during construction phase

- Agency: Municipal supply
- Approx. Total Water Demand : 185 ML
- Sewage Generation: 7.2 KLD (considering @45 lpcd for drinking purposes for labours)

Water requirement during operation phase

S. No.	Description	Area (in m^2)	Total Occupancy	Rate of water demand (lpcd)	Total Water Requirement (KLD)
A.	Domestic Water				
	a)Residential Development				
	• Residents		1595	135	215.32
	b) Visitors		239	15	3.58

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	c) Staff		160	45	7.2
Sub Total (a + b + c)					226.1 say 226 KLD
B.	Horticulture and Landscape development	6.89 acres		25 KLD/acre	172.25 say 172
C.	DG Set Cooling (1 X 150 kVA)			0.9 lt./KVA/hr	0.81
Grand Total (A+B+C) = 399.16 KLD say 399 KLD					

Proposed EMP in the project:
Water and sewage management

SN	Likely impact	Management / mitigative measures
A) during construction phase		
1 2 3	Agency: Municipal Supply Water Demand = 185 ML Wastewater Generation = 7.2 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: Municipal Supply Total Water Demand = 399 KLD Fresh water = 244 KLD Flushing = 68 KLD Landscape = 172 KLD (86 KLD from treated water from STP) DG cooling = 1 KLD Wastewater Generation = 194 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, flushing and DG Cooling.

Noise and vibration control

SN	**Likely impact**	**Management / mitigative measures**
A) during construction phase		
1	Noise level will be expected to meet standards as applicable by SPCB/CPCB norms.	1. Barricading of construction site. 2. Provision of required mufflers / enclosures. 3. Propose to restrict construction hours to day time.
B) during operation phase		
1 **2**	Traffic movement is anticipated to generate noise. Noise level expected to be around 25 dB(A).	1. Non-igniting, self extinguishing mineral wool of 100 mm thick with resin bounded used for noise and thermal insulation. 2. Acoustic enclosure will be provided.

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Following mitigation measures have been proposed to minimize the noise levels generated due to construction activities:

- Adhering to the hours of normal operation and no work will be done on public holidays.
- Remedial works to ensure no damage has occurred.
- All plant equipment and vehicles being fitted with appropriate noise suppression equipment to reduce noise levels as far as are practicable.
- A list of all machinery with max. noise levels will be available with operator and noise levels of high, medium & low potential zones will be displayed at main gate along with noise standards. Noise hazards will be available with project safety officer and displayed at work area.
- All site workers will be trained in noise reduction (such as proper use of machinery and make use of noise protection devices like ear muffs, head phones and ear plugs).
- Warning signs should be set up in active work areas, prohibiting entry to persons without hearing protection.

Air environment

Construction phase

Dust Suppression System:

- Seeding on the top of preserved top soil so as to prevent dust emissions from it.
- Wind breakers all along the periphery of the project site.
- Sprinklers.

Operation phase

- Source of air pollution: Vehicular movement and DG sets
- To combat air pollution ($PM_{2.5}$, PM_{10}, SO_2, CO and NO_2), development of green belt has been proposed and proper traffic management would be ensured.
- Stack height of 6 m above the roof top is proposed to be provided as per CPCB guidelines.

Solid waste management (During construction phase)

S.N	Likely impact	Management/ mitigative measures
1. **2.**	Types of waste such like bricks, concrete, MS rods, tiles, wood etc. is expected to be generated. Soil will be excavated periodically from earth work in phased manner.	1. Construction yards are proposed for storage of construction materials. 2. Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the project. 3. Remaining soil shall be utilized for refilling/road work/raising of site level at locations. 4. There shall be ñRefuse Containersò at site for the management of domestic waste generated by the construction labourers and these containers shall be emptied at least once daily. 5. Cement bags, waste paper and packing material (cardboard) will be sold off to recyclers.

Solid waste management (During operation phase)

S.N	Category	kg per capita per day	Waste generated (kg/day)
1.	Residents (1,595)	@ 0.5 kg/capita/day	797.5
2.	Visitors (239)	@ 0.15 kg/capita/day	35.85

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3.	Staff (160)	@ 0.25 kg/capita/day	40
4.	Landscape waste (6.89 acres)	@ 0.2 kg/acre/day	1.378
	Total solid waste generated		**874.728 kg/day Says 875 kg/day**

Hazardous waste and e-waste management

Type of Waste	Colour of Bins	Category	Disposal method
Used Oil, batteries etc.	Black with Label	Hazardous waste	Waste shall be collected in leak proof containers at isolated place and then it will be given to approved vendors of CPCB as per Hazardous waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and Ammended till date.
Electronic and electrical equipments	Black with Label	E- waste	It will be disposed off through approved vendor of CPCB as per Electronic Wastes (Management and Handling) Rules, 2011.

Energy conservation measures proposed in the project:

- Maximum use of natural lighting through architectural design.
- Use of CFL and low voltage lighting fixtures in common areas.
- 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	26.93
2	Green CFL based Lighting will be done in the common areas, landscape areas, signage, entry gates and boundary walls etc.	26.93
3	Green CFL based Lighting will be done in dwelling units	18.69
4	Use of solar water heater system	251.68
Total energy saved		324.23
Total energy consumption = 1336 KVA Energy saved through various provisions = 324.23 KVA Total energy saving = 24.26 %		

Environment management cost

Component	Capital cost (Rs. lacs)	Recurring cost (Rs. lacs)
Sewage Treatment Plant	25	6.25
Rain Water Harvesting System	20	5

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Solid Waste Management	2.0	0.5
Environmental Monitoring	9	9
Green Area	14.0	3.5
Others (Energy saving devices etc)	10	2.5
Total	80	26.75

Proposed Fire fighting measures

- The entire complex will be provided with fire fighting arrangements as per NBC, 2005.
- Fire-Water Connections
- Firewater inlet & outlet connections will be provided to the water storage tanks;
- External main fire ring will be provided. This external fire ring will be separated from the Sprinkler Main Systems;
- All flow switches, test valves, drain pipes etc. will be provided as per NFPA guidelines on the sprinkler system;
- All pump installation and arrangements will be in accordance with IRI guidelines and NFPA-20;
- All pumps and accessories and electrical controllers will be as per UL/FM lists, tested, approved and certified; and
- By-pass arrangements will to be provided with NRV & gate valve and bulk flow meter on the discharge header of each pump to check the duties of pumps.

After deliberations committee observed that the EMP and other submissions made by the PP are satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for project shall not exceed 244 m^3/day.
2. Waste water (Sewage) generated from the project shall be 194 KLD which shall be re-clycled after effective treatment.
3. Construction debris shall be recycled through conversion into aggregate.
4. Solar panels shall be installed for street lights and other utilities.
5. STP shall be regularly operated and maintained by the developer of the township.
6. Developer shall ensure compliance of all the terms and conditions of the EC.

15. **Case No. - 98/2008** **Smt. Indra Devi Garg, legal heir of Late shri Giriraj Garg R/o House No. - Distt . -Mandla (M.P.)** *Bankuri red ochre mine* ***Lease Area –*** *12.0 ha. Capacity – 5000 TPA at Village – Bankuri, Tehsil – Karahal, Distt. - Sheopur (M.P.)* **For – Public Hearing discussion.** Discussion with due permission of Hon. Chairman.

This is a mining project comprising total lease area of 12.0 Ha. and production capacity of 5000 TPA of Red Ochre. The project is covered under the provisions of EIA Notification mentioned as item no. 1 (a) of the schedule and hence requires prior EC before initiation of activity at site.
Earlier Case was considered and recommended 51st SEAC Meeting date 23rd March 2010 & again in the 68th SEAC Meeting date 30th October 2010. PP was asked to repeat the Public Hearing as the same was conducted

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The case was considered in the 34th SEIAA meeting dated 11/05/2010 whereby PP was asked to re-submit the Forest NOC. Again the case was considered by the SEIAA in its 45th meeting dated 10/01/2011 whereby the DFO was asked to submit the distances of site from forest boundary. Later SEIAA in its ----- meeting rejected the Public hearing conducted for the project on the ground that it has not been conducted at appropriate site and PP was asked to get the PH conducted at mining site. The Public Hearing proceedings of the repeated PH were forwarded to SEAC. PP presented the salient features of the PH. Scrutiny of the documents and the submissions made by the PP revealed that the Public Hearing in general was in favour of the project. No adverse comments were observed in the Public Hearing. There was a demand in the Public Hearing maintenance of the local road and temple by the PP for which PP has agreed. The case has already been recommended by SEAC covering all technical issues. Thus, committee decided to forward the case to SEIAA with same recommendation for grant of prior EC to the project subject to following special conditions:

- Green area shall be developed in at least 33% of the total mining area during the lease period as per the proposal submitted.
- PP shall explore the possibility of using solar energy where ever possible.
- Commitments towards CSR have to be followed strictly.
- Regular health checkup record of the workers has to be maintained at site.
- PP shall maintain the local roads in coordination with the Gram SABHA.
- The local temple shall be maintained by the PP.
- PP shall supply the mine pit-water to nearby villagers for irrigation purpose.
- PP has to strictly follow the directions / guidelines issued by MoEF, CPCB and other Govt. Agencies from time to time.
-

16. **Case No. - 1715/2013 Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462003. -** ***Tarped Tank Project*** *Gross Command Area – 5255 ha., Cultivable Command Area - 4000 ha., Catchment Area - 175 Sq.km.,Earth Dam Lenth – 4065 M, Left Flank – 1740 M, Right Flank – 2325 M, Maximum height of Dam – 28.25 M, at Village – Jetpura, Tehsil – Chhatarpur, Distt. – Chhatarpur (M.P.)* **ToR.**

This is a river valley project comprising of construction of reservoir on river Tarped. The project is covered under the provisions of EIA notification hence requires prior EC before commencement of work at site. The application of PP seeking EC was forwarded by SEIAA to SEAc for scoping so as to determine TOR to carry out EIA and prepare effective EMP for the project. The features of the project were presented by the PP and his consultant. The presentation and submissions made by the PP reveals following:

Alternate site study:

	Comparison of alternate site					
Alternate Site	Location	FTL (M)	Gross Storage (MCM)	Live Storage (MCM)	Submergence (Hact)	Remark

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Alternate No -1	890 m In D/S Of Final Alignment	259.50	12.15	3.58	263 S	1.Gross capacity is much less in comparison to available yield 2.Village Bhelsi will be affected on increasing the height 3.There is constraint to keep LSL at RL 258M as per the level of command.
Alternate No -2	Final Alignment	270.0	42.09	37.56	586	Storage Available as equivalent to available yield
Alternate No -3 A	350 m In U/S Of Final Alignment	270.0	34.20	31.00	530	1.Gross capcity is less in comparison to available yield
Alternate No -3 A	350 m In U/S Of Final Alignment with increase of 1.0 m height of dam	271.0	36.50	33.30	570.	1.Villages named Sahasnagar and Hatnai with their connecting link road will be affected.

Details of land coming under submergence of final proposal

S.N.	Particulars	Area (Ha.)
1	Private	351.08
2	Government	185.87
3	Forest (Revenue)	49.64

Introduction & necessity

- Tarped Medium Irrigation Project is proposed on River Tarped near village Jaitupura of District Chhatarpur of MP and can be located at latitude $24^0$48ô52ò and longitude $79^0$23ô40ò on toposheet no. 54P/5,P/6 and P/9.
- The project is conceived to have a live storage capacity of 37.56 MCM to facilitate irrigation in 4300 ha of land presently under rain fed agriculture.
- Tarped River is a tributary of Dhasan River which joins the river Yamuna. It originates from Ragoli village of Chhatarpur district at EL 323 M & meets River Dhasan at EL 235 M. Total length (35 Km) & basin of river from origin to confluence is lies in Chhatarpur District of MP.
- Most of the culturable land is rain fed and owing to erratic rainfall, very little area is covered under sustainable agriculture. This is further compounded by lack of any major / medium project in the area, accept few minor projects.

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- The irrigation requirement of culturable area in the Dhasan Sub Basin can be brought under assured irrigation only by constructing major/medium water storage projects.
- The lack of any sizeable water storage scheme in the district has hindered the agricultural development in the area.
- Considering the current and future requirement of irrigation/domestic water use, a water-stressed future can be foreseen. Hence it is necessary to start medium water project immediately.
- In this backdrop, Tarped medium project near village Jetupura in Chhattarpur Tehsil & District. It proposed for execution.
- The beneficiaries area covered by the proposed project include 17 villages of Chhatarpur Tehsil.
- During summer season the ground water table goes down & the region suffers from acute shortage of drinking water. Creation of reservoir and irrigation systems in the region will result in recharge of ground water, improvement in the ecology and will have a great positive impact on the environment & the wild life of the region.
- With no industrial development, agriculture is a major occupation & provides employment to almost 80% of work force.
- The region has 64% cropped area but most of it falls in the category of un-irrigated crop area, dependent mainly on rain. Wheat, which occupies most of the cropped area, has a yield 35% below the national average.

Water availability

- The BODHI has examined & approved the yield of Tarped project as 39.61MCuM**.** However water stored in Tarped Dam is proposed to have live storage capacity 37.56 MCuM. Out of which 14.00 MCuM is proposed to be reserved for fulfillment of proposed Ganeshpura Pickup wear in d/s on river Dhasan and fulfillment of four minor irrigation tanks existing in command. As such only 23.56 MCuM. water is accounted for irrigation of 4300 ha.

Salient feaures of tarped medium irrigation project

Unit- 1 Head Work –Project state / district / village / tehsil
MP/Chhatarpur/Bhelsi/Chhatarpur

(1) Toposheet No.	54 P/5, 54 P/6, 54 P/9
(2)Latitude & Longitude	$24^0 48' 52''$ N 79023 $'40''$ E
(3) River	Tarped
(4) Catchment area	175.00 Sq. Km.
(5) Length of Dam	4065 M
(6) Max. Height of Dam (Above GL)	28.25 M
(7) T.B.L. of Dam	274.75 M
(8) M.W.L. of Dam	272.25 M
(9) F.R.L. of Dam	270.00 M
(10) L.S.L. of Dam	258.00M
(11) Gross Storage	42.09 MCM
(12) Live Storage	37.56 MCM
(13) PMF (Probable Maximum Flood)	1541.52 Cumecs
(14) Total Submergence area	586.59 Ha.
(14.1) Forest land	49.64Ha.(Revenue Forest)

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(14.2)Private land	351.08 Ha.
(14.3)Govt. land	185.87 Ha.
(15) Annual Irrigation	4300 Hact.

Unit- 2 Canal

Length of Main Canal	18.48 Km.
Head Discharge	2.22Cumecs.
Length of Distributaries and Minors	31.53 Km.
Total length of canal network	50.01 Km.
Irrigation Potential	4300Ha.

Cost of the project

- Estimated Cost
- Unit-1 Head Work : Rs. 5553.31 Lakhs
- Unit-II Canal : Rs. 2721.06 Lakhs
- Total : Rs. 8274.37 Lakhs
- Cost per Hect. Of CCA : Rs. 206859.00
- BC Ratio @ 10% interest : 2.04
- Period Required for Construction : Two Years

Hydrology

- The net catchment area of Tarped river at dam site is 136.81 sq.km.
- The yield is estimated with the help of rain fall /run-off relationship derived from Garrouli GD site and rainfall of Begamgunj, Khurai, Sagar, Banda, Chandiya Nalla, Mahroni, Tikamgarh, Bijawar, Chhatarpur & Naugaon for period from 1982-83 to 2008-09 and is used for estimating the yield.
- The Hydrology estimation is study and approved by Bodhi.

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

- Hydrological Regime of the down-stream of Dam has to be studies and compared with the expected post-project regime.
- Total population of area to be furnished.
- At least 90% of the total effected population should give positive response for the proposed DAM during the PH.
- Rules governing the acquisition of tribal land to be considered while acquiring the land the same should be dealt in the EIA report.
- Water quality analyses especially the TDS has to be co-related to the expected salinity that may be caused in the command area.
- Estimation of sedimentation rate to be detailed out while calculating the life of the dam.
- Other standard TORsôshall be applicable.

17. **Case No. - 1716/2013 Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462003.** ***Sonpur Medium Project , C****atchment Area – 145.42 Sq. km., Gross Storage Capacity – 43.13 MCM, Live Storage Capacity – 39.0 MCM, Gross Command Area – 14069 ha., Cultivable Command Area – 9500 ha., Proposed Irrigation Area – 700 ha. at Near Village – Narayanpur and Ghana, Tehsil – Kesli, Distt. – Sagar (M.P.)* **ToR.**

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This is a river valley project comprising of construction of reservoir on river Dehar. The project is covered under the provisions of EIA notification hence requires prior EC before commencement of work at site. The application of PP seeking EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare effective EMP for the project. The features of the project were presented by the PP and his consultant.

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

- Hydrological Regime of the down-stream of Dam has to be studies and compared with the expected post-project regime.
- Total population of area to be furnished.
- At least 90% of the total effected population should give positive response for the proposed DAM during the PH.
- Rules governing the acquisition of tribal land to be considered while acquiring the land the same should be dealt in the EIA report.
- Water quality analyses especially the TDS has to be co-related to the expected salinity that may be caused in the command area.
- Estimation of sedimentation rate to be detailed out while calculating the life of the dam.
- Other standard TORsôshall be applicable.
- Committee is of the opinion that a visit the site may also be taken up in near future and if required additional TOR may be issued later.

18. **Case No. - 1717/2013 Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462003. *Surajpura Medium Project ,*** *Catchment Area – 85.02 Sq. km., Gross Storage Capacity – 27.77 MCM, Live Storage Capacity – 24.74 MCM, Gross Command Area – 4847 ha., Cultivable Command Area – 4499 ha., Annual Iirrigation Area – 700 ha. at Near Village – Narayanpur and Ghana, Tehsil – Kesli, Distt. – Sagar (M.P.)* **ToR.**

This is a river valley project comprising of construction of reservoir on river Dehar. The project is covered under the provisions of EIA notification hence requires prior EC before commencement of work at site. The application of PP seeking EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare effective EMP for the project. The features of the project were presented by the PP and his consultant. The presentation and submissions made by the PP reveals following:

Alternate Sites

Alternates Available	Forest Land Submergence (Ha)	Total Land Submergence (Ha)	Remark
Alternate No 1	28.90	470.70	Suitable site, Submergence Least, Cost Justified
Alternate No 2	48.78	793.80	Unsuitable site, Submergence more, Cost more as compare to benefit

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Alternate No 3	63.60	1036.70	Unsuitable site, Submergence maximum, Cost more as compare to benefit

Introduction and Necessity of Project

- Dam Site is located on the River Dehar (which is tributary of Ken River in Ken basin) near Village- Surajpura in Tehsil- Kesli of District- Sagar in Madhya Pradesh at Lat. 23^0 31' 00" and Long. 78^0 44' 30".
- The project site can be approached by traveling 21 km on Sagar- Deori road and then by travelling 40 km on Nanhai Deori- Kesli road. Thus total distance from Sagar to site is 61 kms. The nearest railway station to project site is Sagar.
- The district of Sagar is located in Bundelkhand region of MP, the irrigation development is below the stateôs average figure.
- Crop cultivation in this district is totally dependent on rainfall and on the vagaries of monsoon.
- Providing irrigation will improve the economic condition of the farmers and result in efficient utilization of soil and water resources of the region.
- Fertile land is available in Kesli Tehsil where reliable irrigation system can make a great difference and yield of crop may increase many fold. Thus, this will result in overall development of the region.
- Also during summer season, the ground water table goes deep and the region suffers from the acute shortage of drinking water. Creation of water bodies and developing irrigation systems in the region will result in recharge of ground water and improvement in ecology and will have a great positive impact on the environment and wild life of the region.
- To improve the scenario and to have overall development of the Bundelkhand, Govt of Madhya Pradesh has planned Surajpura Medium Irrigation project to provide irrigation in areas of Kesli tahsil by storing the river flow from Dehar River

Salient feaures of surajpura medium irrigation project

Project state / District / Village / Tehsil	MP/ Sagar / Surajpura /Kesli
Latitude & Longitude 23° 31' 00" N	78° 44' 30" E
River	Dehar
Catchment area	85.02 Sq Km
Length of Dam	1470 M
Max. Height of Dam (Above GL)	22.25 M
Top Width of Dam	6.00 M
TBL of Dam	525.80 M
MWL of Dam	523.80 M
FRL of Dam	522.30 M
LSL of Dam	511.00 M
Gross Storage	27.77 MCM
Live Storage	24.74 MCM
Total Submergence area	470.70 Ha
Forest land	28.90 Ha
Private land	341.41 Ha
Govt. land	100.39 Ha

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Annual Irrigation	4205 Ha (Kharif 440 Ha + Rabi 3765 Ha)
Spillway	Ogee Type Ungated weir
Standard Project Flood (SPF)	1039.13 Cumecs
Length & Height of weir	250 M & 3 M
Crest Level of weir	522.30 M
Left Bank Canal	Length 4.53 Km , Discharge 0.76 Cumec
Right Bank Canal	Length 14.49 Km , Discharge 4.96 Cumec

Hydrology of Project

- River Dehar Sonar Ken Yamuna Ganga
- Dehar originates near Pipraria village of Sagar District, MP. The basin of Dehar covers the areas of Sagar District of Madhya Pradesh
- The water availability study is carried out on the basis of R&R relationship developed at ***Sonar G&D site*** of Central Water Commission on the basis of data from ***1977 to 2011 (35 Years)*** which is located at 40 Km from the project site.
- Applying the same R&R equation to the Project site the ***75% dependable yield*** works out to be ***24.79 MCM*** for ***CA 85.02 Sq.Km*** .
- Peak Flood (***SPF***) worked out by Synthetic Unit Hydrograph approach (CWC, Sub Zone 1(C) as ***1039.13 Cumecs***
- For silt load, Silt rate adopted *as* ***0.000357 MCM/ Sq. Km./ Year***.
- Assuming the life of reservoir as 100 years and C.A. 85.02 Sq.km .The silt load comes out to ***3.03 MCM***.
- Moodyôs method has been adopted to fix NZE (New Zero Elevation) as laid down in IS - 5477 (part 2) ï 1994 on ñ Methods for fixing the capacities of Reservoir ï Part II ï Dead Storage ñ.
- The NZE on the basis of Moodyôs method works out to be ***509.2 m***

Submergence Area

Gross Submergence	470.70 Ha
Private Land	341.41 Ha
Irrigated	136.55 Ha
Unirrigated	204.86 Ha
Forest Land	28.90 Ha
Govt Land	100.39 Ha

Rehabilitation and Resettlement plan

R&R issues	Surajpura Dam
No. of villages fully affected	Nil
No. of villages partially affected	1
No. of Houses affected	10
Tribal families in the Project	0
No. of persons affected	40
Provision made for Resettlement/ Rehabilitation(Rs. Lac)	60

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

- Hydrological Regime of the down-stream of Dam has to be studies and compared with the expected post-project regime.
- Total population of area to be furnished.

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- At least 90% of the total effected population should give positive response for the proposed DAM during the PH.
- Rules governing the acquisition of tribal land to be considered while acquiring the land the same should be dealt in the EIA report.
- Water quality analyses especially the TDS has to be co-related to the expected salinity that may be caused in the command area.
- Estimation of sedimentation rate to be detailed out while calculating the life of the dam.
- Other standard TORsôshall be applicable.
- Committee is of the opinion that a visit the site may also be taken up in near future and if required additional TOR may be issued later.

The meeting ended with thanks to the Chairman and the Members.

[S.C. Jain, Chairman] **[V.Subramanian, Member]** **[K.P. Nyati, Member]**

[Ms Mohini Saxena, Member] **[V. R. Khare, Member]** **[R.K. Jain, Member Secretary]**