

The 185th meeting of the State Expert Appraisal Committee (SEAC) was held on 29th April, 2015 under the Chairmanship of Dr. R. B. Lal for discussion on the query responses submitted by the PP and the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohini Saxena, Member
2. Shri K.P. Nyati, Member
3. Dr. U.R. Singh, Member
4. Dr. M.P. Singh, Member
5. Dr. Alok Mittal, Member
6. Dr. Manoj Pradhan, Member
7. Shri Manohar K. Joshi, Member
8. Shri R. Maheshwari, Member
9. Shri A.A. Mishra, Secretary

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

- 1. Case No.- 2009/2014 M/s Aditya Enterprises through Proprietor Shri Sanjay L. Gupta, 2 Sanyam Complex, Bombay Conductor Road, Jashoda Nagar, Ahmedabad- (Guj.) 382445 E.C. for proposed project Manufacturing of Dyes & Intermediates at Khasra No. 193, AKVN Industrial Area, Meghnagar, Tehsil- Meghnagar, Disst- Jhabua, M.P.Capacity- 443.5MT/Month. FOR ó TOR - Env. Consultant: Not Mentioned. CF-164th**

The project pertains to manufacturing of Dye Intermediates with production capacity of 443.50 MT/Month. Total capital cost of the project is reported to be Rs 377.50 Lac. The total plot area is 4047 m². The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. Pp and his consultant presented the salient features of the project before the committee in the meeting. The presentation and the submissions made by the PP reveals following:

Location of the project:

Particulars	Details
Co-ordinates	22° 54.813' N74° 34.266'E
Village	Meghnagar (AKVN)
Tehsil	Meghnagar
District	Jhabua
Nearest Water body	Amlipathar Village Pond: é 0.6 km (E)
Nearest Highway	State Highway: é 1.0 km (N) National Highway No 69: é 10.0 km (S)
Nearest Railway station & Railway line	Meghnagar Railway Station: é 3.2. km (W)
Nearest Airport/ Airbase	Ratlam: é 70 km (NNE)
State/ National borders	Gujarat: é 11 km (W)
Protected Area/ Sanctuaries	No
CRZ applicability	No
Seismicity	Seismic Zone ó III (Moderate)
Note: All the above mentioned distances are the aerial distance from the project site.	

Proposed Products-

S. No.	Name of Products	Quantity MT / Month
1.	G-Salt	50.00
2.	Sulpho Para Vinyl Sulphone	

3.	Violet Acid	
4.	Scheffer Acid	
5.	O.T.5 S.A.	50.00
6.	Sulphanilic Acid	50.00
7.	R-salt (co-product of G-salt)	22.50
Total		172.50
S. No	Name of By-Product	Quantity MT / Month
1.	Spent Acid	204.00
2.	Gypsum	67.00
Total		271.00
Grand Total		443.50

Resource Requirement

Resource	Requirement	Source
Land	4047 m ²	The site is located at Meghnagar (AKVN).
Building	911.87 m ²	The total built-up area will be around 911.87 m ² .
Water	Domestic - 2.5 KLD Industrial - 16.5 KLD Gardening - 3.0 KLD	Water will be sourced from AKVN (water supply)
Power	Total power Requirement: 150 KW DG Set: 150 kVA	Required power will be sourced from Madhya Pradesh Paschim Kshetra Vidhut Vitran Company Limited. 1 no. DG Set of 150 KVA will be installed as stand-by requirement.
Fuel	Lignite/Wood Briquettes: 3.5 TPD LDO/FO: 3.0 KLD Diesel: 12 LPH	Fuel will be sourced from Local Traders/ Dealers.
Man-power	During Construction: 30 Person During Commissioning: 25 Person During Operation: 49 Person	The Required Man-Power will be Employed from nearby local Area.

The project is reported to be located in AKVN Notified Industrial Area. The Industrial area is reported to be notified prior to the publication of EIA Notification 2006 hence Public Hearing may not be required in the case.

After deliberations committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the over all water balance to be worked out presented with details of the proposed -Zero liquid discharge claim.
3. Product-wise material and solvent balance
4. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products hard-copies to be furnished.
5. Details of all the scrubbing agents to be furnished.
6. The fly-ash from boiler is proposed to be supplied to the brick manufacturers; the qualitative analyses report of the ash to be furnished from the already operating similar units.
7. The EIA has to be prepared by an accredited consultant only.

8. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
9. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
10. Details of storage of each product & raw material.
11. Detailed lay-out with adequate green area.
12. Plan for prevention of waste water percolation into the ground water to be submitted.
13. Ground-water study shall be carried out in the region including the water table and the quality.
14. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

2. Case No. – 2192/2014 Shri Gourav Khandelwal, Partner, M/s Siddhivinayak Enterprises, Teacher Colony, Rambhalpur Road, Meghnagar, Jhabua (MP)-457779 expansion of unit for Organic intermediate manufacturing(Revised Product- Phosphorus, Gypsum, Magnesium Sulphate, Dyes Intermediates along with previous product i.e Zinc Sulphate in the record) at Plot No.- 30, Meghnagar Industrial Area at Meghnagar, District- Jhabua (MP) Capacity- 50 MT/Month. Total Area- 2346.24 Sqm. For-ToR Env. Consultant: Not Mentioned. CF-171th

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features of the project before the committee in the meeting. The presentation and the submissions made by the PP reveals following:

- It is an existing unit is located at Plot No. 30, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- The unit is manufacturing magnesium sulphate, manganese sulphate and Phospho gypsum. Existing production capacity is 500 MT/Year as per CCA No. AW- 23181. Now, the unit has proposed expansion for manufacture of Dye Intermediates.
- Proposed capacity for manufacturing of Dye Intermediates is 600 MT/Year.
- The project proponent is also having a second unit - M/s Devansh Trading Company in the same area and will manufacture same Dye Intermediates at Plot No. 137, AKVN, Industrial Area, Meghnagar, District-Jhabua (M.P.) the application of which is listed as Case no. 2193 at SEIAA for prior EC.
- The expected cost of proposed expansion is Rs.80 lacs..
- The total plot area is 2346.24 sq. m. The planned green belt area will be 710 sq. m. i.e. about 30% of total area.

Project location

The proposed project site is located at Plot No. 30, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua. The approximate geographical positioning of the project site is at Latitude: 22°55'0.5168"N Longitude: 74°33'30.351"E.

Water consumption

Category	Water Consumption (KL/DAY)
Domestic	5
Industrial	
Process	10
Washing	5
Boiler	5
Cooling	5
Total(Industrial)	25
Tot (Industrial + Domestic)	30

Waste water generation

Category	Waste Water Generation (KL/Day)
Domestic	3
Industrial	
Process	5
Washing	5
Boiler	2
Cooling	2
Total(Industrial)	14
Total (Industrial + Domestic)	17

After deliberations committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the over all water balance to be worked out presented with details of the proposed -Zero liquid discharge claim.
3. Product-wise material and solvent balance
4. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products hard-copies to be furnished.
5. Details of all the scrubbing agents to be furnished.
6. The fly-ash from boiler is proposed to be supplied to the brick manufacturers; the qualitative analyses report of the ash to be furnished from the already operating similar units.
7. The EIA has to be prepared by an accredited consultant only.
8. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
9. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
10. Details of storage of each product & raw material.
11. Detailed lay-out with adequate green area.
12. Plan for prevention of waste water percolation into the ground water to be submitted.
13. Ground-water study shall be carried out in the region including the water table and the quality.
14. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

- 3. Case No. – 2193/2014 Shri Mahesh Prajapati, Partner, M/s Devansh Trading Company, Dashara Maidan, Meghnagar, Jhabua (MP) M/s Devansh Trading Company proposed expansion for manufacturing of Dye Intermediates (Revised Product-Ammonium Sulphate, Iron Sulphate, Sodium Sulphate, Phosphorus Gypsum, Dyes Intermediates in the record) at Plot No.- 137, Meghnagar Industrial Area at Meghnagar, District - Jhabua (MP) Capacity- 50 MT/Month, For-ToR Env. Consultant: Not Mentioned. CF-171th**

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. Pp and his consultant presented the salient features of the project before the committee in the meeting. The presentation and the submissions made by the PP reveals following:

- This is an existing unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- The unit is manufacturing Ammonium Sulphate, Iron Sulphate, Sodium Sulphate and Phospho Gypsum .

- Existing production capacity is 500 MT/year as per CCA No. AW-23182.
- Now, the unit has proposed expansion for manufacturing of Dye Intermediates.
- Proposed capacity for manufacturing of Dye Intermediates are 600 MT/Year.
- Thus, total capacity for manufacturing is 1100 MT/Year.
- The expected cost of proposed expansion is Rs.80 Lacs.
- The total plot area is 3203 sq. m.
- The planned green belt area will be 961 sq.m. i.e. about 30% of total area.

Project location

- This unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- It is approximately 15 Km distance from Dist. Jhabua.
- The approximate geographical positioning of the project site is at Latitude: 22°54'20.7"N, Longitude: 74°33'16.8"E.

Water consumption

Category	Water Consumption (KL/Day)
Domestic	5
Industrial	
Process	10
Washing	5
Boiler	5
Cooling	5
Total(Industrial)	25
Total (Industrial + Domestic)	30

Waste water generation

Category	Waste Water Generation (KL/Day)
Domestic	3
Industrial	
Process	5
Washing	5
Boiler	2
Cooling	2
Total(Industrial)	14
Total (Industrial + Domestic)	17

After deliberations committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the over all water balance to be worked out & presented so as to achieve -Zero liquid discharge from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.

7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed thresh-hold limits.
11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

4. Case No. - 2332/2015 M/s D.P. Rai, Shri V.B. Rai, Nominated Partner, Nanhaka, 10, East High Court Road, Ramdeshpeth, Nagpur (MS)-440010 E.C For Pandharwaani Manganese Ore Mine, Lease Area – 14.90 Ha. for expansion in Production Capacity from 3000 Tonnes per annum to 10,000 Tonnes per annum, at Khasra Nos.3/1, 3/2, 4/2, 4/3, 4/1, 1/1, ½, 1/3, 1/4, 1/5, 2/1, 2/2, 2/3, 9/1, 9/3, 9/6, 10/1, 10/2, 10/3, 10/4, 10/6, 10/7, 10/8, 10/9, 10/10, 11/1, 11/2, 11/3, 11/5, 136/1, 136/2, 134, 138/1, 138/2 at Village- Pandharwani, Teh – Khairlanji,Disst- Balaghat (M.P) FOR ó TOR 176th meeting dated 26/02/15

This is an existing & operational mining project proposing expansion in terms of production capacity of Manganese Ore. The mine presently is O/C and it is proposed to continue the mining with O/C followed by U/G to achieve the targeted production. The project falls under purview of EIA notification and hence requires EC prior to initiate the proposed activity at site. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA study and prepare EMP. Salient features of the project were presented by the PP and his consultant in the meeting. The project is reported to be located at *Khasra Nos.3/1, 3/2, 4/2, 4/3, 4/1, 1/1, ½, 1/3, 1/4, 1/5, 2/1, 2/2, 2/3, 9/1, 9/3, 9/6, 10/1, 10/2, 10/3, 10/4, 10/6, 10/7, 10/8, 10/9, 10/10, 11/1, 11/2, 11/3, 11/5, 136/1, 136/2, 134, 138/1, 138/2 at Village- Pandharwani, Teh –Khairlanji,Disst- Balaghat (M.P). Mining Lease area is 14.90 Ha.* Production capacity of Manganese Ore is proposed to be enhanced from 3000 MTPA to 10000 MTPA. The mining shall be O/C as well as U/G using mechanized technology. It was informed by the PP that T-4 blasting shall not be carried out in the adjacent O/C mines and the mining shall be carried out only through using Jack & Hammer technique. PP presented the PFR and proposed TOR before the committee.

After deliberations committee recommended for inclusion of following additional points to be addressed in the EIA / EMP in addition to standard TOR:

1. Subsidence study shall be carried out and presented in EIA with proposed mitigation in the EMP.
2. As the site falls within 10 Km from the notified Protected Area comments shall be obtained from Chief Wild Life Warden of M.P.
3. Inventory of all the existing OBSø shall be presented along with details of location, ownership of the land where the OBSø are located and other technical details.
4. Details method of U/G mining shall be presented with reclamation plan.
5. Public Hearing shall be conducted as per the provisions of EIA Notification.
6. Other standard TOR shall be addressed.

5. Case No. – 2037/2014 Shri Anil Satwani, MD, Symbiotec Pharmalab Pvt. Ltd., 85/2, Pigmber, Rau, Indore (MP)- 453331 Environmental Clearance for proposed Expansion of production capacity for bulk drugs at SEZ, Part – II, Pharma Zone Plot No.- 5, 6, 7 & 8, Pithampur, Tehsil & Dist.-Dhar (M.P.) Capacity Total – 150 MT, (Existing EC for 48 MT/Year and Proposed expansion for 102 MT/Year. FOR ó TOR Env. Consultant: Not Mentioned. 165th meeting dated 08/01/15

Case was earlier placed in the 165th meeting where PP or his representative was not present to present the case. The case was again placed in this meeting but PPø request was received to keep

the case in the meeting scheduled for 09/05/2015 committee accepted the request and allowed the presentation to be taken in the meeting dated 09/05/2015 subject to the availability of time.

- 6. Case No. 1020/2012, Shri Om Prakash Rai, Katni Road, District Satna (M.P.) – 485771 Nandan (Shiva Prasad) Lime Stone Mine at Khasra No. – 49,55 P, 56 P, 88, 89, 90, 92, 93, 94, 114 & 118 P Village- Nandan, Tehsil – Maihar, Distt. – Satna (M.P.) Lease Area – 8.09 Ha., Lease Period – 20 Year. Proposed Capacity – 1.0 Lac MT/ Year. For-EIA GRC, Noida (UP) ToR (116) issued letter No.- 272 dt. 11/03/13.**

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to accord a chance to PP for presentation and submission in coming meetings as per turn.

- 7. Case No. – 2036/2014 Shri Vivek Chugh, Director, 503, Chugh Reality, Scheme No. 54, Orbit Mall, Vijay Nagar, A.B. Road, Indore (MP)-452010 167th meeting dated 10/01/15 Environmental Clearance for approval of proposed residential project "Grande Exotica" Village-Bicholi Mardana, Tehsil & District-Indore (MP) Total Plot Area - 26660 Sq.m.,. For-Building Construction Env. Consultant: Kadam Env. Con. Delhi**

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to accord a chance to PP for presentation and submission in coming meetings as per turn.

- 8. Case No. – 773/2012 M/s Asnani Builders & Developers Ltd., FM-1, Block A, "Mansarovar Complex", Bhopal EC for Residential Project at village Katara, Tehsil - Huzur, Bhopal by M/s Asnani Builder & Developers Ltd. through Shri Visan Asnani and Shri O.P. Kriplani, 17 Zone-II, MP Nagar, Bhopal For-Building Construction Env. Consultant: CES Bhopal.**

The case was placed in earlier meetings of SEAC whereby on request of PP the case was returned to SEIAA for delisting. However, the case was again sent to SEAC for appraisal after discussion in the 173rd SEIAA meeting. PP was also informed to seek prior Environmental Clearance under EIA notification, 2006 and ensure presentation in SEAC. Accordingly, the case was placed in this meeting but no response from PP was received. Committee decided to return the case to SEIAA for further necessary action in the matter.

- 9. Case No. - 2411/2015 Shri Devang C Shah M 3/31, Ami Apartment, Near Telephone Exchange, Naranpura, Ahmedabad- 380013 Kewin Chemicals Private Limited, At Plot No. - 136, AKVN, Meghnagar, Th.- & Distt. – Jhabua (M.P.), Gross Capacity - 25 MT/Month, Dyes Intermediates Area- 2552 Sqm. For- ToR Env. Consultant: Not Mentioned.**

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to accord a chance to PP for presentation and submission in coming meetings as per turn.

- 10. Case No. - 2416/2015 Shri Sumit Singhania, 8, Shastri Nagar, Neemuch (M.P.)-458441 Prior Environment Clearance for approval of Sarwania Maharaj Laterite Mine Lease Area – 13.284 ha., (for expansion in Capacity from 1,837 TPA to 2,50,000 TPA) at Khasra No.**

– 39/1, Vill.-Sarwania Maharaj, Th.--Neemuch, Distt.-Neemuch (M.P.) For- ToR Env. Consultant: Apex Mintech Consultant, Udaipur (Raj.)

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to accord a chance to PP for presentation and submission in coming meetings as per turn.

11. Case No. 2459/15 Dr. Chandrashekar Katju, Sr. Manager (Govt. Relations), M/s TATA International Ltd., Industrial Area, A.B. Road, Dewas (MP)-455001 Prior Environment Clearance for approval of proposed "High Rise Commercial (Apollo Premier) Complex" at Tehsil & District-Indore (MP) For-Building Construction.

This is a building construction and area development project covered as item 8 (a) in the schedule of the EIA Notification hence requires prior EC from SEIAA. The application was forwarded by the SEIAA to SEAC for appraisal and necessary recommendations. The project was presented by the PP and their consultants which reveals following:

Status of various Approvals, NOC and Permits as reported:

SN	Particulars	Status	Authority
1.	IOD/ IOA/Similar	Part approved	IMC. INDORE
2.	CFO NOC	Received	- Urban Administration & Development
3.	Consent for the water	Received	Indore Municipal Corporation
4.	Consent for the drainage	Permissible as plot is part of IDA Sch.	Indore Municipal Corporation
5.	Consent for the electric	Received	MPPKVV Co. Ltd.
6.	Solid waste	Applied	Indore Municipal Corporation

Location aspect & connectivity to various amenities

Amenities	(Road Distance) Km
Indore Airport	14 Km
LAT- 22° 45:00.75"N and LONG- 75°53:48.42"E	
Railway Station	7 Km
Bus Stand	7 Km
NH 3	100 Mtr.
Nearest Banks	250 Mtr.
Market / Convenient Shopping	0.5 Km
Vijay Nagar Post Office	1 Km
Central Fire Station	7 Km
Vijay Nagar Police station	250 Mtr.
Nearest Primary /high School	250 Mtr.
Nearest College of Engineering, Management , Art	500 Mtr.
Hospital ó	500 Mtr.

Road

Particular	Plot	Net Area	Built up area FSI	Const. Built up	Landscape (10%)	Ground Coverage 30%
m2	7246.20	7246.20	18115.5	39052.66 (Including Proposed Floors)	725	2114.19 (29.17%)

Project

BUILDING TYPE	NO. OF BUILDINGS	NO.OF FLOORS	NO. of Total Units	POPULATION NOS.
Commercial Building	1	3 Basement + GF+1 st Floor+ Service+ Upper 10 floor.	204	1800

Parking details

Regarding	As Per Norms	Actual	Regarding	As Per Norms	Actual
Parking Four Wheeler Two Wheeler	255 Nil	289 250	Green area %	NA Since it is common plotted development area	10%
No. of trees	-----	131	Internal road	6m	6m

Parking statement

Parking statement	Provided parking		
	CAR	SCOOTER	CYCLE
Basement 1	75	100	50
Basement 2	75	100	50
Basement 3	101	50	
Ground Floor	38		
TOTAL	289	250	100

Water Requirement in the project:

Input	Dry season M3/ day	Wet season M3/ day
Fresh	90	90
Recycled	60	40
Excess to municipal sewer line	57	77

Waste water management proposed in the project:

- “ FAB Process shall be provided for treatment of sewage.
- “ Separate energy meter & DG connection to pollution control equipments
- “ Disinfection by Ozonization.
- “ Labour camp served by Mobile toilets.
- “ Parameters achieved by tertiary treatment as per EP Act 1986

- “ STP and water tanks separated away
- “ STP not hindering fire tender movement.
- “ Permission for (a) water (obtained)& (b) disposal of treated waste water obtained.

Tank details capacity (cum).

UG	Domestic	Flushing	Fire
Commercial	90 KL	40KL	300KL

Solid waste management

(A) Construction Phase

	Particulars	Responsible Care
1	Debris, Waste Concrete, Waste Plaster	Remove every week or reuse for backfilling & road making.
2	Food waste	Handed over to Indore Municipal corporation

(B) Operational Phase

	Particulars	Responsible Care
1	Handling	Source Segregation. Biodegradable and Non-biodegradable. Handed over to Indore Municipal corporation
2	Food Waste	
3	Tree Leaves	Mulching, composting, no open burning
4	Glass, Plastic, Paper, Rubber	To authorized vendors.

Construction waste management plan

S. No.	Item	Quantity	Reuse/Recycle
1	Excavation top soil	45000 m3	Reuse/ Recycle
2	Excavation lower	21000 m3	Reuse
3	Reinforcement	1% (20 MT)	Recycle
4	Broken bricks	4% (20) cum	Reuse
5	Sand	0.2%	-
6	Cement	0.1%	-

Municipal solid waste management

Waste	Quantity Kg/day	Management
Biodegradable	180	Door to door collection & segregation in color coded bins . Handed over to the Indore Municipal corporation.
Non- Biodegradable	420	
Total	600	

Proposed Energy saving measures:

- “ Utility panel shall be provided with automatic power factor correction so that power losses in supply line are minimized and energy bills will be reduced.
- “ We shall be using LED lights and high efficiency electrical motors to save power.
- “ We will be using solar lights for road lighting .
- “ All street lights will be automated through twilight switch so that it is ON only during dark hours.

Proposed Fire fighting details

- As per the regulations of CFO NOC
- Provision of Fire Protection System.
- Provision of Fire Alarm System as per I.S code.

- Provision of Fire detection system.
- Provision of Wet risers, Fire hydrants, Fire pumps, booster pumps, sprinkler pumps: Electric, supply independent circuit & fire hydrant line.
- Provision of portable fire extinguishers of IS specification.
- Provision of Automatic sprinkler system.
- Provision of refuge area 30 Sq. m. on 6th, 7th and 11th floor
- Adequate underground and overhead separate water storage tanks.

Proposed Environment Management Plan

Attribute	Construction Phase	Operation Phase
1. Water Regime	<ul style="list-style-type: none"> “ Install water meters, take readings routinely, record in the register and check to avoid water wastage. If wastage is more report to the management for caution & correct “ To provide 5 nos. of mobile toilets to the construction workers and staff on site and to look after its operational & maintenance, by vendor. “ Potable water will be provided for workers and staff. “ Keep a daily watch to avoid sanitation / drains, & good housekeeping. “ Sedimentation of outside drains avoided by using screens and silt traps. “ To examine proper management of channelization of water to avoid water logging at site. 	<ul style="list-style-type: none"> “ Install water meters, take readings routinely, record in the register and check to avoid water wastage. If wastage is more report to the management for caution & correct “ Keep a daily watch on pH, BOD, COD and TSS of the units to ensure good treatment of waste water into Sewage Treatment Plants and its reuse. “ It is proposed to install STP of capacity 130 m³ for treatment of sewage. “ Treated sewage will be used for flushing and gardening within the premises. “ Excess treated sewage from STP will be disposed to existing Municipal sewer line. “ Separate area shall be provided for STP : 80 Sq. mt. “ The Storm water collected on the ground level shall be collected via storm water channels and guided into 1.5 mt. “ Before entering the RWH Recharge Ring well it shall be passed through a gravity type of Filtration chamber. The chamber shall have layers of filtration media such as Course Aggregate, Fine aggregate, Quartz, Charcoal. “ Ensure the network of connection to rain water harvesting units, maintain its sanitation and documentation. “ To keep a watch on storm water drainage system for any abnormality as to its siltation, entry of dropping leaves, hampering of carrying capacities: and if found quickly arrange the rectification. “ Surface runoff water will be diverted from SWD to rainwater harvesting unit. The surface rainwater will pass through grease cum desilting chamber and then transferred to recharging pit with borewell through gravitational force. “ The parameters & analysis are based on the guidelines given by Central pollution Control Board (CPCB).
2. Air	<ul style="list-style-type: none"> “ Water sprinkling for dust suppression (1tanker/ day) to be used during excavation. “ Covering sheets to be used while 	<ul style="list-style-type: none"> “ For use as backup power, DG sets (1 no of 320kVA) with foundation and acoustic enclosures is to be installed as per suppliers specification and stacks height to be kept as per CPCB norms

	<p>transporting the material.</p> <ul style="list-style-type: none"> " Use of ready mix concrete (RMC) through concrete batching at a place secluded, barricaded by trees and precautions taken of dust suppression by sprinkling. Logbooks to be maintained for RMC trucks haulage. When the trucks are washed, the waste water to be sent for treatment and reuse. " For use as backup power, DG sets with foundation and acoustic enclosures is to be installed as per suppliers specification and stacks height to be kept as per CPCB norms " Proper traffic arrangement for the construction vehicles. " Entry to vehicles with valid PUC certificate " Labour camp to be arranged away from project site and open burning of solid waste will be prohibited. " Use of the standard personal protective equipments like ómasks, goggles etc. 	<ul style="list-style-type: none"> " Periodic monitoring of TPM and SO₂ concentration and thereby schedule and implement proper maintenance of DG sets " Trees to be planted with special care to mitigate dust and noise. " The parameters & analysis of Air regime are based on the guidelines given by Central pollution Control Board (CPCB)
<p>3. Solid Waste</p>	<ul style="list-style-type: none"> " Training to be given to the subcontractor & to the workers for waste collection, segregation and sanitation " Daily records to be maintained for collected quantities " Isolated storage of construction raw material such as paint, varnishes etc. " Segregated garbage to be handed over to Local body " Empty containers of paints, pesticides & fluorescent tube lights to be collected & send to authorized agency for safe disposal 	<ul style="list-style-type: none"> " Informing and educating occupants to ensure segregation of waste in colour coded barrels. " Barrels to be collected every day & records of qty of waste handed over to be maintained " Segregated garbage will be handed over to IMC for final disposal " For treatment of biodegradable waste (180 kg/day) to be sent to the Indore Municipal Corporation. " 20 m² space for Collection and segregation of manure. " Non biodegradable waste (420kg/day) to be sent to Indore Municipal Corporation. for final disposal " STP sludge (7.5 kg/day) to be dewatered & will be used as manure. In addition to manure given by own in-vessel compost.. " E-waste and hazardous waste generated from the site to be handed over to authorized Agency for safe disposal.
<p>4. Soil & Green areas</p>	<ul style="list-style-type: none"> " Topsoil (45,000m³) from the excavated areas to be preserved for re-usage in landscaping. " The excavated material to be kept at project site and covered with polyethylene sheets. " Excavation to be avoided during high windy and heavy monsoon day. " Excavated materials management plan to be prepared for re-usage of the same within the premises or off site 	<ul style="list-style-type: none"> " The proponent planned to develop 725 m² area for landscape. " The proponent has proposed to plant fruit and flower bearing species of native trees (131 nos of trees of 4 number of species) " The trimming to be conducted routinely & especially at the advent of monsoon. " Funds to be earmarked for the maintenance of lawn & plantation with provision of work force, tools & watering arrangement

	<ul style="list-style-type: none"> and disposal " Storm water drains to be maintained to avoid water logging on site. " Saplings will be purchased from nursery and planted along the project site boundary. 	
Noise	<ul style="list-style-type: none"> " Construction site to be barricaded along the periphery to avoid noise nuisance to the surrounding areas. " Regular noise monitoring to be scheduled to maintain the noise level within the levels prescribed by MPCB during day and night time. " Make provision of ear plugs for construction labour and staff & insist its use. " DG sets to be provided with CPCB approved acoustic enclosures 	<ul style="list-style-type: none"> " Acoustic enclosure for DG set to be maintained. " Traffic management plan to be prepared to avoid traffic congestion and thereby reducing noise " Select varieties of trees that can act as a natural Noise barrier.
Socio-economic	<ul style="list-style-type: none"> " During Initial Phase of the project, information regarding the proposed development plan to be communicated to the local community in the form of booklets and posters " Provision of adequate drinking water, toilet and bathing facilities to be made available on project site for the families of construction workers. " Proper Training and awareness programme to be carried out so that the workers understand the importance of wearing personal protective equipments. " First aid and medical facilities to be provided on site " Arrangement of Day care facility/crèche 	<ul style="list-style-type: none"> " In this township job opportunities will be generated for skilled and unskilled. Additional employment by way of cleaners, drivers and security guard, etc. " Increased business opportunities viz. market, trade and commerce " Adhere to the high standard of maintenance and services for consistency of the economic development " Improvement in changes in the aesthetic quality of the locality/area.

Proposed Funds for management & monitoring

For	Construction phase	Occupation Phase
Monitoring	Rs 2.0 Lac / Year	Rs 8.73 Lac/Year
O & M	Rs 14.99 Lac /Year	Rs 23.03 Lac / Year

Plus set up cost is Rs. 83.5 Lacs.

Environmental Management Plan With Budgetary Allocation During Operational Phase

SN	Parameter	Set up cost (Rs in In Lakhs)	Operational & Maintenance Cost (Rs In Lacs. per annum)
1	STP	31.0	10.0
2	Rain Water Harvesting	2.5	0.30
3	Environmental Monitoring	MoEF approved laboratory	8.73
4	Gardening	15	2.0

5a	Wet garbage management	2.0	1.0
5b	Dry garbage	3.0	2.0
6	Energy saving	30	1.0
	Total	83.5	23.3

The submissions and presentation made by the PP were found to be satisfactory and acceptable thus the case was **recommended** for grant of prior EC subject to the following special conditions:

1. Water requirement of the project during operation phase shall not exceed 93 KLD.
2. Re-generative type of lifts shall be installed.
3. All lights in the common spaces including the street lights shall be Solar based with dual power system.
4. Two-row-plantation shall be carried out all around the periphery of the project site.
5. Provision of adequate drinking water, toilet and bathing facilities to be made available on project site for the families of construction workers with appropriate arrangement for treatment and disposal of waste-water during construction phase.
6. STP sludge (7.5 kg/day) to be dewatered using filter press & will be disposed off with the MSW.

12. Case No. 2694/15 Mr. B.K. Agnihotri, Executive Engineer, M.P. Housing & Infrastructure Development Board, Div.-2, R.S.S. Market, 5 No. Stop, Bhopal-462011 (MP) Prior Environment Clearance for proposed Residential Project "Affordable Housing Scheme" at Village-Bairagarh Chichli, Tehsil-Huzur, District-Bhopal (MP) For-Building Construction.

This is a building construction / area development project covered as item 8(a) in the schedule of EIA Notification. Hence the project requires prior EC before commencement of activity at site. The application for grant of EC was forwarded by the SEIAA to SEAC for appraisal and necessary recommendations in the matter. The salient features of the project with other relevant information were presented by the PP and his consultant before the committee, which reveals following:

Permissions from other agencies:

Details	Reference Letter / Application No.	Date
Applied NOC for Water supply	No. 330/Sl. - 2	06/02/2015
Applied letter for Electricity	5091/EE/Electrical Bhopal	18/02/2015
Applied NOC Fire Fighting	5170/EE/Electrical Bhopal BPL	25/02/2015
Land Allotment order (by Collector Bhopal)	1560/RM BRANCH/TAHSIL/BHOPAL	27/11/2014
No Development Certificate	22AA 737041	07/03/2015
Permission for disposal of Solid waste	No. 6 374/Sl.-2	09/02/2015
Land use change (Under Process at Govt. Level)	F-3-73/2013/32	17/04/2015
Approval for Layout Plan from TNCP Department	Letter No. 1325	19/09/2014
Approval of scheme from State government cabinet	GOMP F 23 6 67/12/32-1	28/10/2010

Salient features of the project:

Population	5400
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Land Requirement	Plot Area	Built-up Area	Remarks	
	66718 m ²	50720 m ²	The Land is allotted for Affordable Housing Scheme vide letter no. 1560/RM BRANCH/TAHSIL/BHOPAL, dated 27/11/2014 from housing and Environment Department.	
Water Requirement	Phases	Fresh Water in KLD	Treated Water in KLD	Total Water in KLD
	Construction	4.2	11.7 (flushing, misc and landscaping) & 80.6 for construction activities	96.5
	Operation	232.8	252.2	485
STP	STP of 487 KLD is proposed based on SBR Technology			
Power Requirement	3171.46 kVA			
Project Cost	Rs. 146 crores (Land Cost is Rs. 1/- only for Affordable Housing Scheme by GoMP)			

Location aspect:

Project Location		Connectivity Options	
Latitude	23008 46.0 °N	Kolar Road	0.7 km, SE
Longitude	77024 23.1 ° E	NH 12	7.2 km, E
Location	Bairagarh Chichli village	Habibganj Railway Station	9.0 km, NE
District	Bhopal	ISBT, Bhopal	10.0 km, NE
		Raja Bhoj International Airport, Bhopal	17 km, NW

The proposed project site comes under Krashi & Vrakshharopan (Nahar) as per Bhopal Master Plan 2005 and now being converted into Awasiya & Vrakshharopan (Nahar)

Sensitive Receptor around the project site:

Sensitive Receptor	Distance(km)	Direction	Sensitive Receptor	Distance(km)	Direction
Hathiakheda Lake	15.0	NE	Sehore RF	12.0	WSW
Anjar Nadi	14.5	NE	Bhopal RF	2.2	W
Kaliyasot Nadi	3.4	ENE	Kerwa Dam	3.3	NW
Betwa Nadi	8.0	SE	Upper Lake	9.5	NW
Dahod Tank	14.5	SSE	Van Vihar NP	8.5	NNW
Ubdullahgang RF	8.2	SSE	Bhopal	7.5	N
Ubdullahganj PF	6.5	S	Lower Lake	10.0	N
Kerwa Nadi	1.5	S			

Features within 0.5 km to 2 km Radius

Distance	Features	Distance	Direction
Less than 0.5km	Kalyasot river	Adjacent to site	SW

0.5-1.0 km	Bairagarh chichli village	0.8 km	NE
	UNI Homes	0.9 km	E
1.0 ó 2.0 km	Kidzee High School	1.1 km	SE
	Boarda village	1.8 km	S
	Ishaan Vista	1.7 km	S
	Priyanka Nagar	1.5 km	NE
	Bapu Nagar	1.4 km	NNW
	D.P.S Public School	1.5 km	NW

Area statement

Category	Area in (m ²)	Area (ha)	Area (%)
Ground coverage	14011.64	1.40	21.00
Green area	8137.00	0.81	12.20
Service area	6651.00	0.66	9.97
Community area	2873.00	0.28	4.31
Commercial	731.00	0.07	1.10
Open area	14442.36	1.44	21.63
Area under roads	19872.00	1.98	29.79
Total	66718.00	6.67	100
No. of flats proposed	E.W.S ó 384 flats (Ground + 2 Floor)		
	LIG ó 816 flats (Parking + 6 Floor)		
Total BUA	50720.00 m ²		
Maximum Height of Tower	Stilt + 6 floor (18 m)		

Water requirement – construction phase

Sn	Water use	Unit	Quantity	No. Of persons/area	Fresh water (kld)	Treated water (kld)	Total water demand (kld)
1	Domestic Usage						
a	Drinking	LPCD	7	100	0.7	-	0.7
b	Bathing	LPCD	20	100	2	-	2.0
c	Flushing	LPCD	21	100	-	2.1	2.1
d	Washing	LPCD	15	100	1.5	-	1.5
e	Miscellaneous	LPCD	23	100	-	2.3	2.3
	SUB-TOTAL		86	-	4.2	4.4	8.6
2	Construction activities	Litre/m ²	1.57	50720	0	79.6	79.6
3	Landscaping activities	Litre/m ²	0.9	8137	0	7.3	7.3
Total Water Demand (1+2+3)					4.2	91.4	95.6

Water requirement – operation phase

S. N	Description	Quantity (lpcd)	Population/ area	Fresh water (kld)	Treated water (kld)	Water requirement (kld)
A Domestic Activities						
1	Drinking	7	5400	37.8	0.0	37.8
2	Bathing	20	5400	108.0	0.0	108.0
3	Flushing	21	5400	0.0	113.4	113.4
4	Washing	15	5400	81.0	0.0	81.0
5	Miscellaneous	23	5400	0.0	124.2	124.2
SUB-TOTAL -A (1+2+3+4+5)				226.8	237.6	464.4
B Visitors						
1	Fresh	5	540	2.7	-	2.7
2	Flushing	10	540	-	5.4	5.4
SUB-TOTAL (B)		-		2.7	5.4	8.1
C Service staff						
1	Flushing	21	50	0.0	1.1	1.1
2	Miscellaneous	65	50	3.3	0.0	3.3
SUB-TOTAL (C)				3.3	1.1	4.4
D	HORTICULTURE	1litre / m ²	8137 m ²	0.0	8.1	8.1
Total Water Demand in KLD (A+B+C+D)				232.8	252.2	485 KLD

Waste water generated

PARAMETERS	UNIT	WATER CONSUMPTION		WASTEWATER GENERATION			STP (20% EXCESS)
		(KLD)		(KLD)			
		FRESH	TREATED	FRESH	TREATED	TOTAL	
Drinking water	KLD	37.8	-	30.2	-	30.2	STP of 487 KLD is Proposed.
Bathing	KLD	108.0	-	86.4	-	86.4	
Flushing	KLD	-	113.4	-	102.1	102.1	
Washing	KLD	81.0	-	64.8	-	64.8	
Misc	KLD	-	124.2	-	111.8	111.8	
Visitors	KLD	2.7	5.4	2.2	4.9	7.1	
Service staff	KLD	3.3	1.1	2.6	0.9	3.5	
Horticulture	KLD	-	8.1	-	0	0	
Total in KLD				186.2	219.7	405.9	

Proposed Fire fighting system :

- Adequate fire fighting arrangements in the proposed Residential Complex:
- Provision of water sprinklers
- Provision of Fire Fighting Extinguishers such as CO cylinders and ABC chemical cylinders shall be kept at vulnerable points.
- Provision of separate fire hydrant pipe

- Provision of yard hydrant consisting of single headed hydrant valve (lv1) and Double Headed hydrant valve (lv2)
- Provision of underground water storage tank
- Provision of 4 way fire brigade inlet connection
- There is provision of fire fighting pumps

Proposed Parking details

SN	Parking Details	Details
1	Total numbers of LIG Units	816
2	Built up area of one units of LIG unit	46.75 m ²
3	Total Built up area of LIG Flats	38148
4	Total no. of ECS (as per norms 1 ECS for 100 m ² of Built up area)	(38148 m ² /100 m ²) = 382
5	Area for 1 ECS under stilt parking = 30 m ² . So total stilt parking required for LIG blocks are	(382 no. of ECS x 30 m ² of area) = 11460 m ²
6	Available area of one block under stilt parking	= 564 m ²
7	So proposed area under stilt parking	= (564 m ² x 17 no. of block) = 9588
8	Proposed area under surface parking	= (11460 - 9588) = 1872 m ²

Environment cost

S.No.	Environmental measures	Capital Cost (In Rs. Lakhs)	O& M Cost (in Rs. lakhs per annum)
1	STP Cost	65	8
2	Environmental monitoring(for air, water, waste water, soil, noise etc. by third party)	-	10
3	Gardening	30	5
4	Solid Waste Management	20	5
5	Others	15	5
Total Cost		130	33

There are many discrepancies in the information provided by the Project Proponent (Officials of MPHIDB) in Form 1 & Form 1A and supporting text/documents provided by them subsequently, this indicates that the PP and their consultant have submitted the requisite information casually overlooking the factual information. However, **after deliberations PP was asked to submit response to the following issues raised by the committee:**

1. The land diversion papers to be submitted.
2. Disposal details for excess treated sewage to be submitted with permission from competent authority.
3. Water demand for the project appears to be on lower side. The same has to be reviewed and furnished.
4. Undertaking / certification to be submitted in connection to the location of the project boundary with respect River Kaliyasot to be submitted complying the directions of NGT issued in this regard.
5. Details of total population in the operation phase are not calculated. During calculation of water requirement a figure of population of residents has been presented but the figure seems incorrect.

6. Expected population of visitors and staff members in the campus during operation phase is also not provided. This will also affect the calculation of daily water consumption during operation phase.
7. STP has to be selected keeping in view the operating cost, simpler and effective technology so that during operation phase continuous operation of STP can be ensured. Proposal in context to the same to be submitted.
8. The estimation of water requirement has been made by taking 4.5 persons per unit, while the permissible limit is 5 persons per unit.
9. Water demand for the visitors, which is usually taken 10% of the total residential domestic activities, is also presented very low.
10. Numbers of staff members have also not been presented.
11. Most importantly the water requirement of landscaping activities is also kept very low, only 1 L/sq m, which is generally taken as 3 - 5 L/sq m.

13. Case No.- 1880/14 Shri S.P. Sharma, DGM (General), Indian Railway Station Development Corporation (IRSDC), 4th Floor, Palika Bhawan, Sec-13, R.K. Puram, New Delhi-110066 ToR issued on 20-12-14. PP has submitted final EIA report on 31.03.15 & sent to SEAC on 06.04.15 Environment Clearance for approval of proposed Redevelopment of Habibganj Railway Station at Habibganj Suburb, Tehsil-Huzur, District- Bhopal (M.P.) Area Development Project

Project 6 Infrastructure development and providing International standard passenger amenities on cost neutral basis at the Habibganj Railway station. This would entail new constructions, renovations, redevelopment of the station buildings, platform surfaces, circulating area to better standards so as to serve the need of the passenger. It also includes complete designing, construction, financing, maintenance, generation and collection of revenues through identified passenger amenities, retail and such other commercial activities at the station. The project is covered as activity item 8 (b) in the EIA Notification hence requires prior EC from SEIAA before commencement of activity at site. The EIA report submitted by the PP was forwarded to SEAC by SEIAA for appraisal and necessary recommendations. The salient features of the project and EIA report were presented by the PP along with the proposed EMP during construction as well as operation phases. The presentation and submissions made by the PP reveals following:

Proposed Design criteria as per MSSRS-2009 –

- Station and surrounding city infrastructure to be designed for Peak Hourly Passenger Volume but not less than 10 % of Design Passenger Volume for the Design Year (cl 1.5)
- Design Passenger Volume: Demand and Supply analysis
- Design life of structures: (cl 1.9)
- 120 years (for Station building, viaducts, bridges, underground works, multi storey buildings)
- 50 years (for washable apron (ballastless track bed) and all building structures upto two stories)
- Design Year: 40 years (cl 2.4)

Project Site Connectivity

- ~ North south connection by NH-12
- ~ City center connected by Link road- 2 & Obedulla ganj road
- ~ Major roads connected by Chetak bridge
- ~ Connected to Bhopal airport through Hoshangabad road

Salient Features of Existing and Proposed facilities

Particulars	Existing Station plot	Proposed		
		Station plot	Colony Plot	Total
Plot area	29.6 ha.	29.6 ha.	11.31 ha.	40.91 ha.
Built up area	6798 sqm	544837.5 sqm	400658 sqm	945495.5 sqm
Design capacity of station	25,313 passengers	80,000 passengers	-	80,000 passengers

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Trains	65 Up and 66 Down including 30 through trains in UP direction and 33 in DN direction. 60 goods train	150 passenger trains -27 Suburban and 123 intercity. 60 goods train	-	
Station Features	- Platform number 5 - Platform area 27289 sqm - East Side Block area 2540 sqm - West Side Block 3850 sqm	- Platform numbers 8 - Platform Area 44892 sqm - East Side Block areas 8941 sqm - West Side Block area 8464 sqm	-	
Population	26314 (793 Staff, 208 Resident staff, Passengers 25313)	103074(Passengers-80000, Staff-14099, Residents-8159, Visitors-816)	12454 (Staff-2712, Residents-8856, Visitors-886)	115528 (Passengers-80000, Staff-16811, Residents-17015 & Visitors-1702)
Parking	530 ECS	5065 ECS against 4822 ECS	3046 ECS against 2521 ECS	8111 ECS against 7343 ECS
Power back up	1 DG set of 125 kVA	20.7 MVA DG sets	7.5 MVA DG sets	28.2 MVA DG sets
Power Demand	-3 Substation -1500 kva Demand -33/0.4 kv transformer; -Supply of 33 KVA by MPEB	- 5 substations - 17.5 MVA demand load - 21.5 MVA transformer - 33 KVA supply from MEPB	-1 substation -10 MVA demand load - 10 MVA transformer - 33 KVA supply from MEPB	- 6 substations - 27.5 MVA demand - 31.5 MVA transformer
Water Demand	1.1 MLD (0.85 6 Kolar dam & 0.25 6 borewells)	7.91 MLD	2.27 MLD	10.18 MLD
Waste water generation	Sewage-10KLD Waste water from cleaning-81 KLD	Sewage- 4.4 MLD Effluent from yard-0.33 MLD	Sewage-1.5 MLD	6.2 MLD (Sewage-5.9 MLD, Effluent-0.33 MLD)
Solid Waste Generation	- MSW- 1.04 TPD - E-waste-0.0002 TPD - BMW-Nil	- MSW- 18.39 TPD - E-waste- 0.0098 TPD - BMW-Nil	- MSW-4.98 TPD - E-waste-0.01 TPD - BMW-0.003 TPD (for 9 bed dispensary)	- MSW-23.37 TPD - E-waste-0.0198 TPD - BMW-0.003 TPD (for 9 bed dispensary)
RWH	Nil	14 RWH pits	9 RWH pits	23 RWH pits
STP	6 KLD Septic tank	ETP 6 0.4 MLD STP 6 3 MLD (Manadatory) STP 6 2 MLD (Res./Com.)	STP 6 1.750 MLD	3 STPs and 1 ETP
Fire Fighting	Firefighting provisions as per NBC	3x 0.2 ML fire fighting tank	1x 0.2ML firefighting tank	4x 0.2ML firefighting tank
Green area	-	24642 Sqm	42781 Sqm	67423 Sqm
Diesel storage	5-6 lts for 1 DG set 20 KL tank by Indian Oil	12x 990 liters Day Tank	3x 990 liters Day Tank	15x 990 liters Day Tank

Area Statement Details

S.No.	Description	Station plot (m ²)	Railway Colony Plot (m ²)	Total (m ²)
1	Total Plot Area	296000	113135	409135

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2	Area under Railway Operations	129300	1248	130548
3	Net area for real estate development	166700	111887	278587
4	Permissible ground coverage @30%	50010	33940.5	83950.5
5	Achieved ground coverage	43435	28100	71535
6	Permissible FAR @3	500100	339405	839505
7	Achieved FAR	423487	294000	717487
8	Basement	121350.5	106658	228008.5
9	Stilt parking	40602	0	40602
10	Total built up area	544837.5	400658	945495.5
11	Green Area	24642	42781	67423
11.1	Grass cover	11109	3030	14139
11.2	Tree cover	13533	39751	53284
12	Roads	45565	25186	70751
13	Parking and circulation on ground	32166	0	32166
14	Parking (Basement)	121350	106658	228008
15	Residential development	23357	24500	47857
16	Commercial development (office and retail)	20078	2352	22430
17	Social infrastructure for Real estate development	12580	13780	26360
17.1	Pre-primary school	3200	3200	6400
17.2	Primary school	8000	8000	16000
17.3	Milk booth	60	60	120
17.4	Community room	1320	1320	2640
17.5	Dispensary	0	1200	1200
18	Area under physical infrastructure	8492	3440	11932
18.1	Electric substation & DG back up	4122	960	5082
18.2	Underground tank	1200 (real estate + operation)	1200	2400
18.3	Sewage Treatment Plant	1050 for real estate 1350 (with treated water tank for railway)	1200	3600
18.4	Existing overhead tank with pump room for railway	350	0	350
18.5	HVAC plant room	240	0	240
18.6	Solid waste management	40	36	76
18.7	Rain water harvesting pits	140	44	184

Land area break-up under Green Cover

Features	Station Plot	Colony Plot	Total
Total Plot Area (sqm)	296000	113135	409135
Area under Railway Operations	129300	1248	130548
Net area for real estate development	166700	111887	279835
Grass cover (sqm)	11109	3030	14139
Tree cover (sqm)	13533	39751	53284
Total Area under green (sqm)	24642	42781	67423
% of green area	15%	38%	24%

Out of total green area 21 % will be under grass cover and 79% under tree cover

Details of Water and Waste Water Management

Source of Water supply –Kolar dam

Existing Potable supply-1.1 MLD (0.85 MLD from kolar dam & 0.25 MLD from existing borewells;

Supply assurance from BMC- 4.12 MLD potable water from Kolar dam

Waste Water Calculations (MLD)

Total Water requirement	10.189 MLD
• Potable	5.268 MLD
• Non-Potable	4.921 MLD
• Recycled Water	4.688 MLD
Waste Water Generated	6.251 MLD
Net Water Demand after use of Treated Water	5.501 MLD (54% net savings in total water demand)

Waste Water generation & Treatment

Particular	Quantity
Sewage generation	6.251 MLD
Sewage Treatment Plants	“ 3 MLD for mandatory works “ 2 MLD for commercial & residential in Station Plot “ 1.74 MLD for Colony Plot
Waste water generation from yard	0.33 MLD
Effluent Treatment Plant	0.4 MLD
Sewage Treatment Technology	Moving Bed Bio-film Reactor

Solid Waste Management during construction phase

S.	Likely impact	Management/ mitigation measures

1.	9332 cum C&D waste/debris of the type (waste bricks, concrete, MS rods, tiles, wood etc.) is expected to be generated.	<ol style="list-style-type: none"> 1. Delivery of materials on the site would be done over a durable and impervious surface. 2. Construction yards are proposed for storage of construction materials. 3. Adequate hazardous waste storage facilities and return to the supplier any balance material after use 4. Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping of the proposed project, if any excess supplied to nearby nurseries/restoration of borrow areas during later stages 5. Remaining soil/debris shall be utilized for refilling / road work / raising of site level at locations / selling to govt. approved vendors/ 6. There shall be 50 Refuse Containers at site for the management of domestic waste generated by the construction labourers and these containers shall be emptied at least once daily.
2.	Domestic waste of 20 kg/day is likely to be generated from the construction camp of 100 labours @200 grams per capita/day	
3.	Soil will be excavated periodically from earth work in phased manner.	
4.	toxic substances such as paints, solvents, adhesives, sealants etc.	

Solid Waste Generation-Operation Phase

Facilities Provided	Waste generation norms per unit (kg/capita/day)	Unit (Station Plot)	Unit (Colony Plot)	Waste Generated in Station Plot (TPD)	Waste Generated in Colony Plot (TPD)	Total Waste Generated (TPD)
Passenger	0.15kg/capita/day	80,000	0	12.00	0.00	12.00
Residents	0.5 kg/capita/day	8159	8856	4.08	4.43	8.51
Commercial	Average 0.15 kg /capita/day	11349	1059	1.70	0.16	1.86
Railway office	0.2Kg /capita /day	1500	275	0.30	0.06	0.36
School	0.15 kg /cap/day	1120	1120	0.17	0.17	0.34
PHC*	General hospital waste (1.5 /bed/day)	0	9 beds	0.00	0.01	0.01
Community Facilities	0.15/capita per day	132	132	0.02	0.02	0.04
Visitors (10% of fixed population)	0.15 kg /day	816	886	0.12	0.13	0.26
Total Waste Generated (TPD)				18.39	4.98	23.37
Total Organic waste				7.36	1.99	9.35
Total Inorganic				11.04	2.99	14.02

Biomedical waste is generated @ 25% of the waste/bed (i.e. 25% of 13.38 kg/day) = **3.35 Kg/day (0.003 TPD)**

Tree Cutting and Compensatory Afforestation

- " Survey reveals that 4378 trees are present in the railway station & colony plot which are proposed to be cut.
- " Compensation will be done as per Madhya Pradesh Vrikshon Ka Parirakshan (Nagariya Kshetra) Adhiniyam, 2001
- " Compensation Criteria: trees with girth size less than 30 cm to be compensated @ 1:2 and those above 30 cm @ 1:4 totaling it to 16674.
- " 3154 trees being planted within the site will be deducted from 16674 to be compensated as told by Forest official
- " Compensation money to be paid for only 13520 trees
- " The plantation under compensatory afforestation will be carried out by CP division

Use of energy-efficient methods proposed in the project

- ❖ Provision of solar led street lighting has been proposed in parks, roads and parking areas
- ❖ Use of energy efficient lighting equipment, like lamps, luminaries and control devices.
- ❖ Fly ash made bricks and cement will be used, as available. This will result in lesser consumption of steel and concrete.
- ❖ Use of renewable timber for doors and windows.
- ❖ Proper thermal insulation of roof structures and walls will be followed to reduce the U value.
- ❖ (39%) energy savings due to efficient lighting fixtures viz. LED lighting
- ❖ Highly efficient HVAC AC instead of conventional chilled water system, rooms will be provided with direct expansion split type AC units giving single heat exchange from refrigerant to air;
- ❖ 80% power savings through evaporative cooling system; it will provide 100% fresh air and low initial cost
- ❖ Sunscreen films on windows to reduce excessive heating of building indoors
- ❖ Installing programmable on/off timers and sensors for low occupancy areas

Environment Management Plan

Sl. No.	Parameter	Impact	Measures of management plans	Implementation	Supervision
1	Topography	Construction- Topography is almost flat. Leveling of land will be done Operation- No Impact	Construction- No mitigation measure required	Contractor	Supervision consultant and/ or IRSDC
2	Geology & soil	Construction- - The project would involve soil Cutting of 951587 cum and filling of 1175445 cum. - Compaction due to vehicle movement - Loss of top soil 37500 cum - Oil spillage at refuelling station Operation- - Soil will be conserved and fertilized in green areas	Construction- The cut soil and 9332 cum of demolition waste would be used for filling and hence a net quantity of 214,526 cum will be required to be procured from borrow areas. Soil excavated shall be piled with height not more than 2 m and slope should not be steeper than 1:2. The stockpiles shall be kept covered with tarpaulin The top soil will be scrapped and stored and around 20226 cum will be reused for landscaping within site. The balance amount of 17273 can be handed over to nearby nurseries from where saplings will be supplied or transported to compensatory afforestation site in consultation with the Forest Department. It can also be used for restoration of borrow areas or upgrading agricultural land in the country side. The contractor shall decide on the best feasible option. The borrow areas shall be identified by the contractor. Use and restoration shall happen with the consent of land owner.	Contractor	Supervision consultant and/ or IRSDC
3	Drainage	Construction- - Nalla in colony plot to be trained and lined. - Possibility of dumping construction waste	Construction- - Natural drainage will not be obstructed rather it will be enhanced. Discharge of the existing nalla varies from 3.45 to 6.13 cumec. The proposed trained nalla will have a discharge of 20.87 m ³ /s. - Construction waste shall be stored at defined place away from nalla and reused at the site for filling	Contractor	Supervision consultant and/ or IRSDC
4.	Noise pollution	Construction- - Noise generated from construction equipment and machinery cumulatively will be around 85 dB(A). - Noise from vibrators, Concrete batching plants etc Operation- From traffic & DG sets	- Construction- - Noise pressure at a distance of 200 m from the site will be limited to 90 dBA by use of acoustic barrier. - The vehicles use for construction activity must conform to CPCB/SPCB standards. All the vehicles must have silencer to control noise pollution. Quieter machines shall be preferred. - Provision of earplugs, ear mufflers for the worker working in the vicinity of high noise locations. - Moving workers away from the noise source; restricting access to areas; rotating workers performing noisy tasks; and shutting down noisy equipment when not needed. - Operation-	Contractor	Supervision consultant and/ or IRSDC

			<ul style="list-style-type: none"> - Noise attenuating mufflers / enclosure shall be used around DG sets to attenuate upto 25 Db (A). - A buffer of less vulnerable buildings like commercial and railway operations shall be provided as planned - 2 to 3 rows of trees as proposed along the main roads and internal roads shall be provided to act as noise sink and also cut visibility so that people have a virtual feeling of lesser noise. - All proposed buildings shall be constructed using noise absorbing materials or barrier blocks that can attenuate the noise level by at least 60 to 70 dB(A) at any point 1.0 m from any inward looking façade as mentioned in National Building code 2005. The building materials shall have higher Noise Reduction Coefficient (NRC). - Boundary of Temple M12 shall be built with hollow blocks of 200 mm that can attenuate noise level by around 23 dB(A) with a proposed height of 2 m - Installation of sign boards at appropriate locations. - Users will be asked to avoid blowing of horns near schools and hospital - Parking shall be provided as per proposed plan 		
5	Drinking water	<p>Construction-</p> <ul style="list-style-type: none"> -60 to 75 KLD required for construction purpose and 4.5 KLD for labours. -Conflict with local water use <p>Operation-</p> <ul style="list-style-type: none"> -Total water requirement is of 10189 kld. -Conflict with local water use 	<p>Construction-</p> <ul style="list-style-type: none"> - The water requirement for construction will be managed by contractor. <p>Operation-</p> <ul style="list-style-type: none"> - Water during the operation phase will be supplied by Municipality from the Kolar dam. 	Contractor	Supervision consultant and/ or IRSDC
6	Liquid waste & Water Environment	<p>Construction-</p> <ul style="list-style-type: none"> -Sewage generation of 3.6 KLD -Contamination of water bodies due to sewage <p>Operation-</p> <ul style="list-style-type: none"> -6251 KLD of sewage will be generated. -333 KLD waste water from Yard. -The waste may contaminate the water bodies. -There may be user's conflict. -Spent diesel oil of 10.48 TPY from DG sets may pollute the ground or surface water -758 kg per day sludge generation 	<p>Construction-</p> <ul style="list-style-type: none"> - Sewage from labour camp shall be treated in packaged sewage treatment plant. 3.24 KLD of treated water can be reused for flushing, washing etc. - Oil refueling or changing stations shall be cemented and have oil interceptors. - No water will be extracted from or waste water discharged into the water body during any phase. <p>Operation-</p> <ul style="list-style-type: none"> - MBBR-STP will be used 4688KLD is proposed to be recycled and used for flushing/ landscaping/washing etc. - Dual plumbing system is proposed along with 3 STPs and 1 ETP - Sludge will be used as manure at the site for landscaping and greenbelt development. - The spent oil will be supplied to the MPPCB approved Oil Reprocessors. - Rain water harvesting pits shall be constructed for groundwater recharging 	Contractor	Supervision consultant and/ or IRSDC

7	Solid waste	<p>Construction- Solid waste dump can degrade the land , leach into ground water and surface water thus contaminating them</p> <p>Operation- Solid waste dump especially bio-medical waste and e-waste can degrade the land , leach into ground water and surface water thus contaminating them</p>	<p>Construction- - Demolition waste shall be used for filling within the site during construction. - Guidelines shall be followed for dumping / storing of debris. - Organic waste shall be vermi composted within site or sent to BMC's composting site. - Recyclable waste to recyclers and inorganic waste to land fill site.</p> <p>Operation- - E-wastes and Hazardous waste of spent oil will be supplied to MPPCB approved recyclers/oil re -processors. - BMW will be supplied to MPPCB approved CBWTF. - MSW- Organic waste will be supplied to BMC's Composting Plant; Inorganic waste to BMC's land fill site. Assurance letter from BMC.</p>	Contractor	Supervision consultant and/ or IRSDC
9	Energy Conservation	<p>Construction Fuel use, lighting and cooling</p> <p>Operation Lighting and cooling Renewable energy application</p>	<p>- Energy usage for air- conditioning and other activities to be minimized - Use of energy efficient fixtures & solar energy - Conduct annual energy audit for the buildings.</p>	Contractor	Supervision consultant and/ or IRSDC
10	Solar energy application	This will save non renewable energy sources	Maintenance and cleaning of solar street light shall be done	Contractor	Supervision consultant and/ or IRSDC
11	Ecology	<p>Construction- 4378 trees will be cut. This may lead to soil loosening.</p> <p>Operation- - Re vegetation will be done - Increased exposure to anthropogenic activities - Increased activities of local avifauna</p>	<p>Construction- Since the site is flat and not prone to high wind soil erosion is not a threat</p> <p>Operation- -3154 trees will be planted at the site itself and rest 13520 trees are to be planted by the Forest department as part of CA. -Enactment & enforcement of laws regulating human intrusions -Regular maintenance of fencing -Periodic pruning of trees along the roads -Casualty replacement of plants before monsoon -Clearing of weeds where grass is sown -Removal of unwanted dried leaves during the summer season to prevent fire hazard -Watering in peak summer</p>	Contractor	Supervision consultant and/ or IRSDC
12	Socio-economy	<p>Construction- Displacement of railway staffs</p> <p>Operation- Improved and better station facilities with increase in demand of passenger traffic; Reducing the time lost in congestion and travel times; Reduction in commuting time and enhanced comfort for passengers while waiting for</p>	<p>Construction- Relocation of railway staff as per Railways guidelines.</p> <p>Operation- No Mitigation measure required</p>	Contractor	Supervision consultant and/ or IRSDC

		trains; and Increase in willingness to pay for better service.			
13	Disaster/risk	Construction- - Oil Spillage ó Accidental spillage due to pipe rupture/ fire Operation- - Oil Spillage ó Accidental spillage due to pipe rupture/ fire - Accidental Explosion due to LPG leaks and fire	- Firefighting provisions as per NBC and NFPA-130 shall be followed to prevent such accidents. - A contingency plan shall be prepared as per the on-site and off-site emergency plan given in this report. - Demarcation of the areas to be evacuated with priorities, - Identification of Safe area and shelters, - Security of property left behind in the evacuated areas, - Functions and responsibilities of various members, - Mock drills and records of the same during construction.	Contractor	Supervision consultant and/ or IRSDC
14	Traffic & safety management	Construction & Operation - Increase in traffic flow leading to congestion	Construction - Construction traffic diversion plan shall be prepared by the contractor - Movement of goods vehicles at lean period of the day (10:00 PM to 11:00 PM and 6:00 A.M to 8:00 A.M) so that people are not disturbed during sleep. This will also avoid school opening and closing hours besides any religious event near the temples as well. Operation - Integration with city bus service, BRT and surrounding circulation of vehicular traffic. - Proper planning of entry and exit with adequate parking facilities in the premises.	Contractor	Supervision consultant and/ or IRSDC
16	Construction and labour camps	Construction Safety, health , water supply , sanitation of labours	- The contractor shall have its Health, safety and Environment (SHE) Policy and get it approved by the PP for ensuring proper living facilities, sanitation, water supply, safety, health of the labours in construction and labours camp. Guidelines for labour and construction camp shall be followed	Contractor	Supervision consultant and/ or IRSDC
17	Environment Management Cell/Unit - Construction & operation phases both	Construction/ Operation For Efficient implementation of EMP	- The Environment Management Cell/Unit to be set up to ensure implementation and monitoring of environmental safeguards. - Development of format for monitoring of environmental parameters at site and frequency indicated in environmental monitoring plan. - Development of reporting procedures and record keeping.	IRSDC	IRSDC

EMP Budget

S.No.	PARTICULARS	Total COST (In lakhs)
I	Environmental Monitoring	19.32
II.	Environmental Training	2.0

III.	Plantation of 3154 trees within the project site	47.31
IV.	Rainwater Harvesting Structures.	Considered in Civil Cost
	Sub-Total	68.63
	Contingency cost (5%)	3.43
	Total budget	72.06

The submissions and the presentation made by the PP and their consultant were found to be satisfactory and acceptable however the PP is required to submit **response** to the following points raised by the committee during the presentation:

1. The modeling inputs with respect to the traffic projections have to be reviewed and furnished along with the revised traffic plan based on the out-put.
2. No. of air changes proposed from the Air-conditioned areas in the project to be furnished.
3. COC of the cooling tower attached to the HVAC to be optimized and reported along with the treatment and disposal plan for the bleed-water from cooling tower.
4. Solid waste segregation plan at source to be furnished.

14. Case No. 403/2009 - Dr. S.S. Mishra, Dean Sagar Medical College, District Hospital Tilli, Sagar, (M.P) 470-002 Building Construction. Construction of Medical College with 150 admissions & Hospital with 750 beds, at Sagar.

It was informed by the PP that the Medical College & Hospital project is already completed and operational without prior EC. Hence it is a case of violation. Committee decided to send the case back to SEIAA for further necessary action as per the provisions of EIA Notification and the related O.M. of MoEF & CC in this regard.

15. Case No.-2091/2014 Shri Sanjeev Gupta, Director, M/s Ambashakti Udyog Limited, A.B. Road, Industrial Area, Banmore, Tehsil-Morena, District-Morena, MP-476444 Prior Environment Clearance for expansion project from 28000 TPA of TMT bar to 2,00,000 TPA billets at A.B. Road, Industrial Area, Banmore, Tehsil-Morena, District-Morena, MP-476444 EIA Presentation. Env. Consultant: CES Bhopal. TOR approved in SEAC 167th meeting

This is a project for enhancement in the production capacity of an existing TMT bar and billets unit. The project is covered under the provision of EIA Notification hence requires prior EC from SEIAA. The EIA report submitted by the PP was forwarded to SEAC for appraisal and necessary recommendations. Project proponent and his consultant presented the salient features of the project, EIA and the proposed EMP. The presentation and the submissions made by the PP reveals following:

Environment setting

S. N	Particulars	Details
1	Latitude	26°21'43.60"N
2	Longitude	78°05'21.90"E
3	Height above mean sea level	196
4	Nearest Town	Banmore - 2 Km
5	Nearest Railway Station/Town	Banmore 6 Km
6	Nearest Airport	Gwalior - 16 km
7	Nearest Highway/Road	NH-3
8	Hills/Valley	None
9	Ecological Sensitive Zone	None
10	Reserve Forest	Sanicharara RF - 4.15km - ENE

		Bamur Basai RF - 4.40km - WSW
11	Historical Place	None
12	Nearest River/ Nalla	Sank Nadi ó - W - 0.65km Sonrekha Nadi - ENE - 3.50km Auruwa Nalla - E - 1.0km Khiraoli Reservoir - NE - 4.40km
13	Other industries in 5 km radius	Magnum steel, Prabhu Stone, J. K. Tyre
14	Surrounding Features	North : Prabhu Stone & Open Land South : Vectus & Open Land East : NH-3 West : Open Land

Salient feature of the project

S. No.	Particulars	Details
1	Project	Existing capacity 28000 TPA of TMT Bar Proposed capacity Billets = 2,00,000 TPA TMT Bars: = 150000 TPA Steel Structure: 50,000 TPA
2	Total Power requirement for process	25 MW
3	Total Land available	60704 sq mt
4	Raw material required	For Induction Furnace Pig iron : 22000 TPA Scrap : 87000 TPA Sponge Iron : 108700 TPA For Billet Caster (CCM) Hot Metal from IF : 2,00,000 TPA For Rolling Mill TMT Bar : 150000 TPA Structure (angle and channel) : 50000 TPA
6	Source of Power	MP Electricity Board
7	Water Requirement	500 KLD
8	Source of Raw water	AKVN Supply
9	Major Plants	Induction Furnace (2No.) , CCM Pumps, Rolling Mill, Reheating furnace , Transformer
10	Pollution control equipment	Cyclone, Bag Filter, ID fan Chimney
11	Number and Height of Stack	2 Nos. at induction furnace and rolling mill , Height 30 Mtrs.
12	Level of particulate Matter after APC	Less than 50 mg /NM3
13	Cost of Pollution Control Equipments	Rs.108.00 Lacs
14	Number of employment generation	300 persons
15	DG set	500 KVA
16	Fuel proposed to be used	Electricity
17	Fund for CSR activities	5% of the total investment

Land use break-up

PARTICULARS	Area (In Sq. Mtr.)
Build up Area	26724
Road Development	10900
Water Storage Area	800
Fuel Storage Area	50
Green Belt	16600
Lawn & Greens	3560

Buildings	1190
Open Land	880
Total Area	60704

Raw material requirement

Raw Material	Tonnes Annum	Per	Source	Mode of Transportation
Induction Furnace.				
Pig Iron	22000		Chattishgarh Orrisa	By Road
Scrap	87000		Domestic +Import	By Road
Sponge	108700		Domestic	By Road
Billet Caster (CCM)				
Hot metal produced from induction furnace division	200000		In House	Nil
Rolling Mill				
TMT bar	150000		In-house Market +	
structure (angle & channel)	50000		Inhouse + Market	By Road

Air emission control system

SN	Source Of Air Pollution	Pollution Control Equipment	Height Of Stack
1	Induction Furnace	Cyclone, Filter Bag, ID Fan	30 Mtr
2	Re-heating Furnace	Scrubber	30 Mtr

Water requirement and sources

The water requirement for plant is proposed to be sourced through AKVN Supply

Water Balance

Water Consumption In KLD			Waste Water Generation In KLD		
	Existing	Proposed		Existing	Proposed
Domestic	3.00	14.7	Domestic	2.50	13
Cooling Tower	59.80	485	Cooling Tower	2.90	15
DM water	0.20	0.3	DM water	0.10	0.2
Total	63	500	Total	5.50 say 6.0	28.2 say 29

- ~ Wastewater from DM/Softner mixed with raw water and used for gardening/dust suppression.
- ~ Waste Water Treatment 6 STP of 25m³/ day and ETP of 20 cum shall be constructed
- ~ Dry technology will be implemented, hence there will not be any effluent generation from the process & cooling
- ~ Water harvesting structure shall be constructed and harvested through the structure
- ~ ZERO discharge shall be implemented ..

Solid & hazardous Waste Management

Source Generation	Type Of Waste	Quantity	Management
Process	Plant dust, Mill scale, papers	5.0 TPA	Segregation at source using dust beans and collection at ovalue yardo selling to local vendor

Process	Iron Slag	18000 TPA	A unit of iron recovery from slag shall be installed and the recovered iron shall be used with scrap to charge in induction furnace. The remaining part shall be used for civil work & bricks manufacturing.
DG Set / Transformer	Spent oil	10 kl / yr	Shall be given to authorized recyclers.
WTP/ CT	Resin	2 kl/yr	Shall be given to authorized recyclers.

NOISE POLLUTION CONTROL MEASURES

Following management practices have been observed for the present operation.

- " To mitigate the impact of noise from process equipments during the operational phase the following measures shall be Implemented
- " Provision of noise shield
- " DG set will have inbuilt enclosures
- " Use of personal protective devices such as ear-muffs, ear-plugs etc. will be strictly enforced for the workers engaged in high noise areas .
- " Ear plugs, Ear muff shall be provided to the workers in noise prone areas.
- " Green belts shall be developed in and around plant premises. Sufficient green belt shall be provided to control noise emission.
- " The Ambient noise levels will be less than 75 dBA (during day time) and less than 70 dBA during night time.

Afforestation plan

Year	Area (sq mt)	Number of Plants
Existing	Nil	Nil
1 st Year	3000	450
2 nd Year	3000	450
3 rd Year	5000	750
4 th Year	5600	800
Total	16600	2450

The submissions and the presentation made by the PP were found to be satisfactory and acceptable thus based on the submissions the case recommended for **grant of prior EC** subject to the following special conditions:

1. Double row thick-plantation shall be taken up all around the periphery of the project boundary.
2. Bleed water from the cooling tower shall be used for quenching of heated products.
3. Re-heating furnace shall not be used in the process.
4. The slag shall be supplied to the road construction / brick manufacturers as proposed by the PP and record shall be maintained for the same. Copy of the records shall be submitted periodically to the authorities with other compliances.

16. Case No.-1843/2014 M/s M P Builders & Developers, Shri Man Singh Rajput, Partner, 21-28, Chhatrapati Nagar, Narela Shankari, Bhopal-462041 Environment Clearance for approval of proposed residential project "Tirupati M.L. Highrise" at Khasra No.- 130-131/1/1, 130-131/3, 130-131/2, Village-Damkheda, Tehsil-Huzur, District- Bhopal (M.P.) Plot Area ó 1.69 ha. Total Built up Area -22932.48 sqmt. Env. Consultant ó Not Mentioned. ó Building Construction Project. CF-156th meeting.

Request from PP was received for withdrawal of the case through SEIAA, Committee accepted the request and decided to send the case back to SEIAA for further necessary action in the matter.

- 17. Case No.2152/14 Shri Madan Murari Dubey S/o Shri Narayan Das Dubey, New Colony, Sagar (MP)-47000** *Prior Environment Clearance for approval of proposed Basalt Stone Quarry in an area of 1.80 ha. at Village-Bilkor Kalan, Tehsil-Malthon, District-Sagar (MP) CF 170*

This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-Bilkor Kalan, Tehsil-Malthon, District-Sagar (MP) in 1.80 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is not proposed in the lease area. Concerned Mining Officer vide letter no. 20 dated 03/01/2015 has reported that there is 02 more mines are operating/ proposed within 500 meters around the said mine the total lease area being 7.6 Ha. Scrutiny of the Mining Plan reveals the presence of scheduled animals near the site. DFO has not commented on the issue. Hence PP was asked to obtain a clarification on this issue from concerned forest officer and submit the same at the earliest.

- 18. Case No. - 807/12 Mr. Pankaj Yadav S/o Shri Dhaniram Yadav Village, Jamuniya, Teh-Banda, Distt.-Sagar (M.P.) Pin Code 47033** *Environment Clearance for approval of 02.0 Hectares Stone (Boulder) Quarry at Vill. Lamnau, Teh.-Shahgarh , Dist.-Sagar. Production capacity-9000 m³/Year.*

This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Vill. Lamnau, Teh.-Shahgarh , Dist.-Sagar. in 2.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is not proposed in the lease area. Concerned Mining Officer vide letter no. 451 dated 27/08/2014 has reported that there is 03 more mines are operating/ proposed within 500 meters around the said mine the total lease area being 12 Ha.

Based on the submissions made by the PP the case was recommended for **grant of prior EC subject to the standard conditions:**

1. 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.
2. The mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA
4. Transportation of material shall be done in covered vehicles.
5. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Production of stone boulder shall be as per the mining plan not exceeding 9000 m³/ Year.

9. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement.
10. Transportation shall not be carried out through forest area.
11. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
12. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
13. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

- 19. Case No. 796/12 Ms. Archana Sahu W/o shri Subhash Chandra Sahu, Laxmi Ward Deori, Teh – Deori, Distt. Sagar (M.P.)** Case was sent back to SEAC for discussion. Vide letter no. 3384 dt. 04-02-15 Rec. dt. 05/02/15- 04.0 Hectare Stone/ Boulder Quarry At Vill. Rmanna , The.-Deori, Dist.-Sagar of Archana Sahu w/O shri Subhash Chandra Sahu Proposed production capacity- 39900 m³ / Year.

This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Vill. Rmanna , The.-Deori, Dist.-Sagar in 4.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is not proposed in the lease area. Concerned Mining Officer vide letter no. 458 dated 27/08/2014 has reported that there is 03 more mines are operating/ proposed within 500 meters around the said mine the total lease area being 12 Ha. Scrutiny of the Mining Plan reveals the presence of scheduled animals near the site. DFO has not commented on the issue. Hence PP was asked to obtain a clarification on this issue from concerned forest officer and submit the same at the earliest.

- 20. Case No. 2408/15 Shri Puneet Singh M/s Vasundhara Agro Agency, Near Raghuraj School, Shahdol (MP)-484771** - proposed Sand Quarry in an area of 5.00 ha. (65,000 cum/year) at Village-Lalpur, Tehsil-Sohagpur, District-Shahdol (MP) CF 176th.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to accord a chance to PP for presentation and submission in coming meetings as per turn.

- 21. Case No. 2418/15 - Shri Jagdish Singh S/o Shri Lakhu Singh, Village & PostMandleshwar, Khargone (MP)-454331** Prior Environment Clearance for approval of proposed Sand Quarry in an area of 7.00 ha. (50,000 cum/year) at Village-Bhawariya, Tehsil-Kukshi, District-Dhar (MP) CF 176th.

This is a case of mining of sand. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at at Village-Bhawariya, Tehsil-Kukshi, District-Dhar (MP) in 7.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 295

dated 23/02/2015 has reported that there is 01 more mine is operating/ proposed within 1000 meters around the said mine, the total lease area being 20.1Ha.

The submissions made by the PP were found to be satisfactory and acceptable hence based on the visit observations and PP's submission the case was recommended for grant of prior EC subject to the following special conditions:

1. The amount towards reclamation of the 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.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. PP shall use the rejects and soil for plantation on the banks to prevent damages of the banks.
4. Annual abstraction of sand shall be as per the approved Mining Scheme and the depth of mining shall be restricted to 3m or water level, whichever is less and production capacity not exceeding 50000 m³/ Year.
5. Mining shall be carried only between 1st October to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
12. No in stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the Gram Panchayat.
18. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. EC will be valid for mine lease period subject to a ceiling of 5 years.

22. Case No. 2431/2015 Shri Jagdish Singh S/o Shri Lakhu Singh, Village & PostMandleshwar, Khargone (MP)-454331 Prior Environment Clearance for approval of proposed Sand Quarry in an area of 13.100 ha. (75,000 cum/year) at Village-Khajrana, Tehsil-Kukshi, District-Dhar (MP) CF 176th.

This is a case of mining of sand. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Khajrana, Tehsil-Kukshi, District-Dhar (MP)* in 13.100 ha. The project requires prior EC before commencement of any activity at site. PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 299 dated 23/02/2015 has reported that there is 01 more mines are operating/ proposed within 1000 meters around the said mine the total lease area being 20.1Ha.

The submissions made by the PP were found to be satisfactory and acceptable hence based on the visit observations and PP's submission the case was recommended for grant of prior EC subject to the following special conditions:

1. The amount towards reclamation of the 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.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. PP shall use the rejects and soil for plantation on the banks to prevent damages of the banks.
4. Annual abstraction of sand shall be as per the approved Mining Scheme and the depth of mining shall be restricted to 3m or water level, whichever is less and production capacity not exceeding 75000 m³/ Year.
5. Mining shall be carried only between 1st October to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
12. No in stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the Gram Panchayat.
18. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. EC will be valid for mine lease period subject to a ceiling of 5 years.

23. Case No. 2433/2015 Shri Jagdish Singh S/o Shri Lakhu Singh, Village & Post Mandleshwar, Khargone (MP)-454331 Prior Environment Clearance for approval of proposed Sand Quarry in an area of 7.781 ha. (25,000 cum/year) at Village-Banki, Tehsil Kukshi, District-Dhar (MP) CF 176th.

This is a case of mining of sand. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Khajrana, Tehsil-Kukshi, District-Dhar (MP)* in 13.100 ha. The project requires prior EC before commencement of any activity at site. PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 297 dated 23/02/2015 has reported that no mine is operating/ proposed within 1000 meters around the said mine.

The submissions made by the PP were found to be satisfactory and acceptable hence based on the visit observations and PP's submission the case was recommended for grant of prior EC subject to the following special conditions:

1. The amount towards reclamation of the 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.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. PP shall use the rejects and soil for plantation on the banks to prevent damages of the banks.
4. Annual abstraction of sand shall be as per the approved Mining Scheme and the depth of mining shall be restricted to 3m or water level, whichever is less and production capacity not exceeding 25000 m³/ Year.
5. Mining shall be carried only between 1st October to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
12. No in stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the Gram Panchayat.
18. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. EC will be valid for mine lease period subject to a ceiling of 5 years.

Discussion on the Site Visit Reports

Sub-committee of SEAC comprising Dr. Mohini Saxena, Member (SEAC) and Dr. Alok Mittal, Member (SEAC) visited the project sites of below mentioned projects as per the recommendation of the Committee on 19/03/2015. The project-wise visit report and the recommendations of the sub-committee are as follows:

1. **Case No. 1987/2014 Shri Ravi Anandani S/o Shri Heeranand Anandani, 54, New Rajdev Sindhi Colony, Berasia Road, Bhopal (MP)-462021-** proposed Soil Quarry in an area of 1.324 ha. at Village-Pipalkhiriya, Tehsil-Raisen, District-Raisen (MP) production capacity- 2000 m³/Year. (163rd SEAC meeting).

This is a case of mining of Soil (Brick-earth). The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Village-Pipalkhiriya, Tehsil-Raisen, District-Raisen (MP)* in 1.324 ha. The proposed production capacity is 2000 m³ / Year. Brick production is reported to be 20.0 lac / year.

The case was dealt in the 163rd SEAC Meeting dated 24/12/2014. Whereby, it was decided to visit the site through a sub-committee in view of following investigation:

- Availability of soil / water in the region to assess the feasibility of three similar projects within 500 meters.
- Availability of sufficient space for brick manufacturing and allied activities.
- Transport route for evacuation of huge materials from the site.

Observations made by the inspecting committee

- A. The project under consideration is operating in the land owned by the PP. There is sufficient clay deposit in the lease quarry estimated reserves as per mining plan is about 59500 m³. The dug-out space is made flattened and used for storing green / finished bricks. The adjoining land which is owned by the PP is also used as storage area for raw material and bricks. The Brick-kiln is reported to be installed in the lease area.
- B. It was observed, that 03 more soil quarries are operating / proposed within 500 meter radius around the said mine, the cumulative lease area being 5.362 ha. All the quarries are using a common road for transporting the materials up to the main State Highway. It was reported by the project proponent that on an average 15 twelve-tonner dumpers ply in a day through this road.
- C. About 7-8 workers from nearby villages is reported to work on site when the brick kiln is operational; only 2-3 workers stay at site during night for security reasons. Basic amenities such as shelter, drinking water etc. has been provided at site. Water for drinking purpose is drawn from the bore-well within the premises of the project.
- D. Plantation is very feeble and require further enhancement. Appropriate toilets especially for the female workers and shelter place for their small children is lacking at site. However, PP has submitted a commitment for construction of toilets (latrines) and appropriate shelter space for the female workers and small children.

Recommendations:

In view of the above observations committee recommended the case for consideration for prior EC subject to following special conditions:

1. Row-plantation shall be done all around the periphery of the lease area and dense plantation shall be carried out along the lease boundary towards the nallah.
2. Plantation in patches shall be carried out within the lease area selecting local species of tree plants having thick foliage.
3. Toilets (latrines) and appropriate shelter space for the female workers and small children shall be constructed at site.
4. PP shall co-ordinate the other mine operators and take-up the maintenance of the approach road on sharing basis.

Based on the submissions made by the PP and the above report of sub-committee committee it was decided to recommend the case for grant of prior EC subject to the standard conditions and the conditions laid by the visiting sub-committee.

2. **Case No. 2275/2014 Mohit Sharma, Director, M/s Shri Prabhakar Colonizer & Developers Pvt. Ltd., 152, Zone-I, M.P. Nagar, Bhopal-462011 (MP)** proposed housing project öGirnar Valleyö at Village-Mohali, Tehsil-Huzur, District-Bhopal (172nd SEAC Meeting).

This is an existing township project. It was reported that project pertains to expansion of the existing residential project from existing built-up area of 12007 m² to proposed 43464.02 m². The project is attracted by the provisions of EIA Notification in view of proposed expansion beyond 20000 m² of built-up area. Accordingly, application has been filed for EC. The case was considered in the 172nd SEAC Meeting whereby, it was reported by the PP that the project has been constructed after obtaining CTE from MPPCB and no construction has been done beyond the consented built-up area. It was further reported that

presently the work has been stopped and shall be taken up only after obtaining EC. Hence in order to examine the present environment scenario, status of construction and the existing / proposed planning, it was decided to visit the site before making recommendation. The visit conducted by the sub-committee of SEAC on 19/03/2015 revealed following observations-

- The project has been planned in three phases out of the three phases two phases have been taken up and almost complete except the finishing works. No activity was observed in this part of the project. This part of the project is not operational.
- No plantation has been done in the project; it was submitted by the PP that the same shall be taken up with other activities of the project.
- The additional part proposed as phase-III of the project is planned in the adjoining land owned by the PP. Presently the land is virgin and no activity was observed.
- Fresh water demand for the project is 377 KLD. Single STP (350 KLD) has been planned to cater all three phases of the project. The treated waste-water is planned to be re-cycled in flushing and horticulture through the dual plumbing provisions.
- Total solid waste generated will be around 1100 TPD. Door to Door Collection system shall be implemented. Hand driven carts shall deliver the MSW from residential blocks to storage bins and from storage bins to main waste collection point. The MSW collection centre will be at the gate of the campus.
- Fire hydrants with designated water tanks shall be provided in the multi-storied buildings.
- About 14 % of the plot area is proposed to be developed as green area including the peripheral plantation.

Recommendations:

In view of the above observations committee recommended the case for consideration for prior EC subject to following special conditions:

1. The present STP shall be shifted and installed at suitable location based on the contour study of the plot such that-
 - STP is not water logged even during heavy rains.
 - Energy requirement for pumping sewage from any of the components of the project is optimal.
2. An uninterrupted operation of STP has to be ensured in terms of dedicated power supply with appropriate back-up.
3. Two row plantation all around the periphery shall be ensured as per the proposal and commitment submitted by the PP.
4. MSW storage area with 48 hr storage capacity shall be constructed with proper loading provisions.
5. STP sludge shall be dried through filter press and shall be disposed off along with the MSW.
6. Separate children play spaces shall be provided for the two parts of the project.

Based on the submissions made by the PP and the above report of sub-committee committee it was decided to recommend the case for grant of prior EC subject to the standard conditions and the conditions laid by the visiting sub-committee.

3. **Case No. 2319/2014 Mr. Mohit Sharma, Director, Shri Prabhakar Colonizer & Developers Pvt. Ltd., 152, Zone-I, M.P. Nagar, Bhopal-462011-** proposed residential project òGirnar Hillsö at Village-Amrawad Khurd, Tehsil-Huzur, District Bhopal (M.P.) (172nd SEAC Meeting).

This is an existing township project. It was reported that project pertains to expansion of the existing residential project from existing built-up area of 16000 m² to

proposed 25241.33 m². The project is attracted by the provisions of EIA Notification in view of proposed expansion beyond 20000 m² of built-up area. Accordingly, application has been filed for EC. The case was considered in the 172nd SEAC Meeting whereby, it was reported by the PP that the project has been constructed after obtaining CTE from MPPCB and no construction has been done beyond the consented built-up area. It was further reported that presently the work has been stopped and shall be taken up only after obtaining EC. Hence in order to examine the present environment scenario, status of construction and the existing / proposed planning, it was decided to visit the site before making recommendation. The visit conducted by the sub-committee of SEAC on 19/03/2015 revealed following observations-

- The initially planned construction in the project is almost complete except the finishing works. No activity was observed in this part of the project. This part of the project is not operational. The construction of additional blocks has not yet been initiated.
- Fresh water demand for the project is 353 KLD. Single STP (300 KLD) is proposed in the project. The treated waste-water is planned to be re-cycled in flushing and horticulture through the dual plumbing provisions.
- Total flats in the projects are 186 and parking provided is for 199 Cars.
- Total solid waste generated will be around 0.936 TPD. 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. The MSW collection centre will be at the gate of the campus.
- Fire hydrants with designated water tanks shall be provided in the multi-storied buildings.
- About 14 % of the plot area is proposed to be developed as green area including the peripheral plantation.

Recommendations:

In view of the above observations committee recommended the case for consideration for prior EC subject to following special conditions:

1. The present STP shall be shifted and installed at suitable location based on the contour study of the plot such that-
 - STP is not water logged even during heavy rains.
 - Energy requirement for pumping sewage from any of the components of the project is optimal.
2. An uninterrupted operation of STP has to be ensured in terms of dedicated power supply with appropriate back-up.
3. Two row plantation all around the periphery shall be ensured as per the proposal and commitment submitted by the PP.
4. MSW storage area with 48 hr storage capacity shall be constructed with proper loading provisions.
5. STP sludge shall be dried through filter press and shall be disposed off along with the MSW.

Based on the submissions made by the PP and the above report of sub-committee committee it was decided to recommend the case for **grant of prior EC** subject to the standard conditions and the conditions laid by the visiting sub-committee.

Another sub-committee of SEAC comprising Shri Rameshwar Maheshwari, Member (SEAC) visited the project sites of below mentioned projects as per the recommendation of the Committee

on 20th and 21st March 2015. The project-wise visit report and the recommendations of the sub-committee are as follows:

4. **Case No. – 2139/2014** Shri Sanjay Jain S/o Shri Uttam Chandra Jain, Mhow, District-Indore (MP)-453441 Stone Quarry Lease Area – 3.00 ha., at Khasra No. -1022/2, Village-Kheda, Tehsil-Dhar, District-Dhar (MP) Capacity- 14694 Cu.mt./Year.

The case was discussed in the 170th SEAC Meeting. This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. -1022/2 Village-Kheda, Tehsil-Dhar, District-Dhar (MP) with proposed production Capacity of 14694 Cu.mt./Year, in 3.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department vide letter no.1017 dated 10/11/2014, that 09 more mines are operating / proposed within 500 meter radius around the said mine with total lease area of 24.5 Ha. The presentation and submission reveals that cluster of mines are operating / proposed in the region. The area is in proximity of the Pithampur Industrial Estate. In view of above observations it was decided by the committee to visit the site before any conclusion.

Observations made by the inspecting committee

- The mine is yet and a crusher is proposed water sprinkling system shall be installed for control of fugitive emissions. It was reported by the PP that water shall be sourced from nearby sources through tankers. There are about 10 to 15 casual mine workers shall be deputed as per requirement. The workers shall be provided with temporary shelter at site.
- Water body ó No water body was observed within 1 Km area around the project site.
- Nearest Habitation ó The nearest habitation is village ó Kheda at about 1 Km from the project boundary.
- Forest ó The area is devoid of forest
- The mine is operation with a crusher at site water sprinkling system has been installed for control of fugitive emission. There are about 8 to 10 casual mine workers deputed as per requirement. The workers are provided with temporary shelter at site.

Based on the submission made by the PP and the observationa made by the visiting sub-committee the committee decided to **recommend** the case for grant of prior EC subject to the following special conditions:

1. 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.
2. The mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Garland drains and check-dams shall be constructed considering the slopes of the lease area.
9. Production of stone boulder shall be as per the mining plan not exceeding 14694 m³/Year and maximum average depth of pits shall not exceed 6 meters.
10. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Peripheral plantation shall be carried out in the first year itself.

11. Transportation shall not be carried out through forest area.
12. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
13. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
14. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. 1645/2013 - Shri Surendra S/o Ruplal Kumawat, Owner, Janta Colony, Mandasaur, Distt. – Mandasaur (M.P.)- 458001 Stones Quarry, Lease Area – 2.00 Ha. at Khasra No. – 3/1, Village –Dodiamina, Tehsil - Malhargarh, Distt. – Mandasaur (M.P.) Capacity – 8,000 Cubic Meter/Year. Lease Period – 02 Year.

The case was discussed and recommended in the 132nd meeting and returned by SEIAA for review of the matter after field visit in view of following aspects- To assess the cumulative impacts of the existing & proposed mining projects on the nearby Human Settlement, Water bodies, State / National Highways and Forest Area.

This is a case of mining of stone. The project was scheduled for hearing in the 133rd meeting dated 15/05/2013, committee has allowed the PP to present the case in this meeting on his request. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located *Khasra No. – 3/1, Village –Dodiamina, Tehsil - Malhargarh, Distt. – Mandasaur (M.P.)* in **2.00 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 operating 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.

Observations made by the inspecting committee

- Highway ó No highway exists near the site.
- Water body ó No water body was observed within 1 Km area about the project site.
- Nearest Habitation ó the nearest habitation is village ó Dodiamina at about 1 Km from the project boundary
- Forest ó The area is devoid of forest
- Existing Mines in the region: No mine within 500 meters around the project site.

Based on the submissions made by the PP and the observations made by the visiting committee the case may be considered as per the **recommendations** of the SEAC 132nd meeting.

6. Case No. - 2067/2014 Shri Jagdish Basantani S/o Late Shri Gulab Rai Basantani, 72, Shanti Nagar, Bairasiya Road (MP)-462001 Basalt Stone Quarry Lease Area – 4.00 ha., at Khasra No.- 57, Village-Dhol, Tehsil-Dharampuri, District-Dhar (MP),Capacity – 96900 Cubic mt./Year.

The case was discussed and recommended in the 166th SEAC meeting and returned by SEIAA for review of the matter after field visit in view of following aspects- To assess the cumulative impacts of the existing & proposed mining projects on the nearby Human Settlement, Water bodies, State / National Highways and Forest Area.

This is a case of mining of stone boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located *at Khasra No. - 57, Village-Dhol, Tehsil-Dharampuri, District-Dhar (MP)* in 4.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. It was reported by the concerned Mining Officer of mining department vide letter no. 8045 dated 13/10/2014, that 05 more mines are operating / proposed within 500 meter radius around

the said mine the total lease area being 20.8 Ha. PP has reported that the pit formed after mining shall be developed into a water body.

Observations made by the inspecting committee

- National Highway ó The site is located at about 5 Km from the Indore-Bombay National Highway (NH-3) and apparently the activity shall not have potential impact on the highway.
- Water body ó No water body was observed within 1 Km area around the project site.
- Forest- No forestation has been observed in the region.
- Existing Mines in the region ó Five more mines with lease area of about 20 Ha are existing in the region. All these mines have installed crushers.
- The mine in question has installed a crusher with crushing capacity of 200 TPH. Water sprinkling system is in place for control of fugitive emissions. It was reported by the PP that source of water for the project is own tube-well. There are about 10 to 15 casual mine workers deputed as per requirement. The workers have been provided with temporary shelter at site.

Based on the submissions made by the PP and the observations made by the visiting committee the case may be considered as per the **recommendations** of the SEAC 166th meeting.

Meeting ended with thanks to the Chair and the Members.

[R.B. Lal, Chairman]

[A.A. Mishra, Secretary]

[R.B. Lal, Chairman]

[K.P. Nyati, Member]

[Dr. U.R. Singh, Member]

[Dr. Alok Mittal, Member]

[Dr. Manoj Pradhan, Member]

[Dr. M.P. Singh, Member]

[Dr. Mohini Saxena, Member]

[Manohar K. Joshi, Member]

[R. Maheshwari, Member]

[A.A. Mishra, Secretary]