

The 284th meeting of the State Expert Appraisal Committee (SEAC) was held on 26th November, 2016 under the Chairmanship of Dr. R.B. Lal for the projects / issues received from SEIAA. The following members attended the meeting-

1. Shri K. P. Nyati, Member
2. Dr. U. R. Singh, Member
3. Dr. Mohini Saxena, Member
4. Shri Manohar K. Joshi, Member
5. Dr. S. K. Iyer, Member

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

1. **Case No. – 3120/2015 Mr. Sanjeev Agarwal CMD Sagar Plaza, 250, Zone 2 M.P Nagar Bhopal M.P. – 462016 Prior E.C for approval of proposed Construction of Group housing Project “Sagar Eden Garden” at Khasra No.-447, 449/1, 447, 449/2, 447, 449/3, 449/1/1 Vill.-Bawadiya Kalan, Teh.-Huzur, District-Bhopal (M.P.) Total Project Area-10687.51 sq.m. Total Build up Area-22850 sq.m. For-Building Construction.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Site Specific details

Particulars	Details
Location	Construction of proposed Group Housing Project “ Sagar Eden Garden ” at Khasra No. 447, 449/1, 447,449/2, 447,449/3, 449/1/1 at Village-Bawadiya kalan, Tehsil- Huzur, District- Bhopal, Madhya Pradesh, India
Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	466 m above mean sea level

Latitude and Longitude (mentioned in Fig 4)	Point 1 - 23°10'35.80"N; 77°27'45.17"E Point 2 - 23°10'34.91"N; 77°27'44.05"E Point 3 - 23°10'34.51"N ; 77°27'42.84"E Point 4 - 23°10'33.43"N; 77°27'43.69"E Point 5 - 23°10'33.96"N ; 77°27'44.71"E Point 6 - 23°10'32.64"N ; 77°27'46.39"E Point 7 - 23°10'33.84"N ; 77°27'48.87"E
Current status of land	Residential Landuse as per BDA Master Plan, 2005
Type of facilities	Housing with basic amenities
Nearest Highway	Bhojpur road (NH-12) (E) Bhopal Bypass road (E)
Nearest railway station	Misrod Railway is 1 km (SE) Habibganj Railway Station is 5 km (NE)
Nearest airport	Raja Bhoj International Airport, Bhopal – 21 km (NW)
Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Van Vihar National Park is 10 km (NW)
Rivers/Lakes	Kaliasot River – 2.5 Km (W), Shahpura lake – 5.0 km (NW)
Seismic zone	Seismic Zone-II as per BIS 2002 map.
Defense installations	---

Area Statement

S. No	Items	Details
1.	Type of Building	Residential
2.	Total Land Area	10,687.51 sq mt
3.	Area Under 24 m wide road widening	1,389.48 sq mt
4.	Net Planning Area	9,298.03 sq mt
5	Ground Coverage	Permissible: 2,789.41 sq mt (30%)

		Proposed: 2,789 sq mt (30%)
6.	FAR	Permissible: 15,096.23 sqm (Permissible FAR for Housing = 1.25 x 9,298.03 = 11,622.53 sqm (A) Additional FAR of area under road widening (As per Rule 61 of MPBVN-2012) = 1.25 x 1,389.48 x 2 = 3,473.70 sqm (B) Total (A + B) = 15,096.23 sqm) Proposed: 15,095 sqm
7.	Total Basement area	Total basement area – 3,787.33 sqmt
8.	Total Stilt area	2,789.49 sqm
9.	Area open for services	92.90 sqm
10.	Informal sector	1,085 sqm
11.	Built up area(as per MoEF)	22,850 sq mt (15,095 sqm FAR + 2,789.49 sqm stilt area +3,787.33 sqm basement area + 1,085 sqm builtup area of informal sector +92.90 sqm service area)
12.	Total open area	6,508.53 sq mt
13.	Internal roads and Paved area	5,578.7sqm
14.	Green Area	Proposed: 929.8 sq mt (10% of plot area)
15.	No. of Trees (Required-1 Tree/100 sqm of open area)	Required: 65 Trees Proposed: 100 Trees
16.	Number of floors	S+6 floors
17.	Parking facilities	Required Parking: 166 vehicle space Provided Parking: 203 vehicle space
18.	Power requirement & source	750 kVA Source : Madhya Pradesh KshetraVidyutVitran Company Limited
19.	Power Backup	1 DG set of 125 kVA
20.	Water Requirement and	Fresh Water Demand : 103 KLD Recycled Water: 72 KLD

	Source	Total Water Demand : 175 KLD Source: Municipal supply
21.	Total Dwelling Units	Residential: 192 LIG/EWS – 33
22.	Estimated Population (fixed + floating)	Residential – 960 (@5 person per unit) LIG- 165(@5 person per unit) Visitors – 110 Staff-55
23.	Height of the Building	Basement + Stilt + 6 floors (21m approx)

This is a residential project comprising building construction for with Total Project Area-10687.51 sq.m. and Total Build up Area-22850 sq.m. The project is proposed Khasra No. – 447, 449/1, 447, 449/2, 447, 449/3, 449/1/1 Vill.-Bawadiya Kalan, Teh.-Huzur, District-Bhopal (M.P.) By virtue of type and size of project it falls under Category B-2, 8(a) in the EIA Notification hence requires prior EC from SEIAA.

The case was discussed in the 269th SEAC meeting dated 29/02/2016 wherein it was recorded that a submission/violation resolution from PP has been received stating that construction activities have already been initiated at site. Thus it is a clear case of violation. SEIAA has forwarded the case with documents pertaining to credible action initiated against the PP for violation. It was decided to visit the site before appraisal of the case, as the same has been directed by SEIAA for violation cases as per their policy decision in 204th meeting dated 30/05/2015.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Mohini Saxena, Member SEAC visited the site on 10/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Neeraj kamboj and their consultant.

Major Observations during the Site Visit:

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 10,687.5 and the proposed built up area of the project is 22,850 Sq.m.
- The Project consists of multi story group housing with all the basic amenities. The construction work for the project is already initiated and approximately 95%

civil work has already been completed. No possession has been given in any of the flats. No construction activities were observed during site visit.

- Two entry/exit are proposed present in the project site however, at present one entry/exit is provided. Main entry exits are through 24 m wide road and internal circulation roads are of 12 m, 7.5 m and 6 m wide. All internal roads have been constructed.
- As per the information provided PP, drainage pattern of the project is south east of the project site which is towards the back side of the project where STP is provided by the PP.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 6 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of suitable capacity will be provided on the rooftop of the multistory buildings.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 135 lpcd. The water requirement for the residents will be sourced through the municipal supply for which necessary permission has been obtained by the PP. For treatment and recycling of treated water on site STP of capacity 180 KLD is proposed and it was observed that the underground tanks has been constructed and some machineries are also installed by the PP. Dual plumbing system has been provided for recycling of treated waste water in one of the constructed blocks and the same is proposed in the remaining blocks as informed by the PP.
- Area for construction of a 48 hours MSW collection space has already been demarcated near the STP area.
- As per the information provided by PP, 05 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP 929.80 Sq.m of area is dedicated for the landscaping purposes. PP has provided peripheral plantation.

- PP was also instructed to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.

The above report of the sub-committee was placed before the committee wherein after deliberations committee endorsed the inspection report and decided that the PP may be called for presentation for appraisal by the committee in the up-coming meetings of SEAC.

As per the above decision, the case was scheduled for the presentation 279th SEAC meeting dated 02/07/2016 but 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 call the PP in subsequent meetings. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Case was again placed in the 283rd SEAC meeting dated 27/10/2016 wherein 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 call the PP in subsequent meetings giving last chance and even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Today again 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. Earlier PP was also absent in the 279th SEAC and 283rd SEAC meetings. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for **delisting** assuming that PP is not interested to continue with the project.

2. Case No. – 477/2009 Shri Nimish Arora, Director M/s Aarone Developers Pvt Ltd 6th Floor, Office Tower , Select City Walk A-3, District Centre Saket, New Delhi-110 017 “ County Walk ” Area Development Project at Village - Zalariya, Plot Area - 80.811 ha., Distt- Indore.(M.P) Building Construction Project.

This is a building construction project comprising area development. The project falls under EIA Notification and is mentioned at SN 8 (b) category 'B'. The project has been recommended by the SEAC for grant of EC in earlier meetings of SEAC (44th dated 23/12/2009, 143rd dated 20/10/2013 and 153rd dated 21/10/2014). The matter has

been referred back to SEAC by SEIAA vide letter no. 1561/SEIAA/16 dated 19/05/2016 for appraisal as “credible action” has been initiated.

BACKGROUND

The case was discussed in the 143rd SEAC meeting dated 29/10/2013 wherein it is recorded that the case was earlier presented before the SEAC in 40th meeting of SEAC dated 25/11/2009 followed by the 44th meeting dated 23/12/2009 and was recommended for grant of prior EC but the project was not considered further as SEIAA was under re-constitution. Later, SEIAA has directed that the project shall be considered under category B-1 and shall be issued TOR to carry out EIA accordingly, the case was returned to SEAC for issue of TOR. The project was issued TOR based on the field visit report of subcommittee of SEAC. The EIA report was forwarded by SEIAA to SEAC for appraisal. Salient features of the report, compliance of TOR and other environmental aspects were presented and discussed in detail. After deliberations PP was asked to submit response to the following queries along with the supporting documents:

- Undertaking for complying with all the conditions imposed by CGWA in the ground – water abstraction permission issued CGWA.
- Furnish the copies of the compliance reports submitted to CGWA.
- Source of the funds that shall be required for execution of proposed EMP including the operation and maintenance of the STP, transportation of the MSW to the landfill site etc.
- The sludge has to be de-watered and disposed off with the MSW; accordingly plan with budgetary provisions has to be submitted.
- Disposal of Bio-medical waste has to be executed through the authorized BMW recyclers. Willingness of the nearest BMW treatment & disposal facility operator in this regard to be submitted.
- Disposal of hazardous waste has to be executed through the authorized BMW recyclers. Willingness of the nearest HW treatment & disposal facility operator in this regard to be submitted.

Satisfactory response to the above queries was submitted by the PP. The EIA and other submissions made by the PP were found to be satisfactory and acceptable hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. Green area shall be developed in at least 30% of the total plot area.
2. PP shall explore the possibility of using solar energy where ever possible.

3. Collection, segregation, storage and transportation of municipal solid waste shall be the responsibility of the developer.
4. Developer of the township shall also ensure smooth & uninterrupted operation and maintenance of STP and treated effluent has to be reused within the premises.
5. Dual pipe line has to be laid down for flushing, horticulture and other recycling points.
6. Total fresh-water requirement shall not exceed 1917 KLD.

The case was discussed in the 153rd SEAC meeting dated 21/10/2014 wherein it is recorded that the project has been recommended by the SEAC for grant of EC in earlier meeting. The matter has been referred back to SEAC for comments on the issue of violation of the provisions of EIA Notification by the PP. It is observed by committee that the matter pertaining to the violation of EIA Notification has been dealt by the visiting sub-committee and the same has been endorsed by the committee. Accordingly committee recommends that the case may be considered for grant of EC only after credible legal is ensured against the PP as per the provisions of MoEF O.M. dated 12/12/2012.

The case was scheduled for presentation in the 280th SEAC meeting dated 31/08/2016 but 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 call the PP in subsequent meetings and if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project and thus the case was scheduled in the proposed 284th SEAC meeting dated 26/11/2016.

The case was presented by the PP and their consultant today wherein following submissions were made by PP:

Chronology of the case:

- **25th November 2009-** case was discussed in **40th SEAC meeting**.
- **23rd December 2009-** PP submitted the reply and the case was again taken up in **44th SEAC** meeting. After discussion with PP, Committee recommended the case to SEIAA for environmental clearance.
- **6th February, 2010-** Case was discussed in **29th SEIAA meeting**. SEIAA observed that PP has submitted a commitment letter from Ex. Engineer Indore Municipal Corporation for the supply of 3000 KLD water from Narmada water supply phase

III. Authority was of the view that the same letter might be issued by the Commissioner, Municipal Corporation Indore and asked the PP to submit the same.

- Quoting the following statement, SEIAA returned the case Back to SEAC:

“...Since the project is located in Indore district but beyond the municipal limits. Hence a final decision will be taken after getting the proposal recommended by SEAC after reconsideration and obtaining a clarification from MoEF on OM no J-11013/5/2010-IA (I), dated 13/1/2010.... ”

- **28th April 2011-** The case was again taken up by in **57th SEIAA meeting**. During the meeting authority observed that the project is in the adjoining area of Indore Municipal Corporation, which is already notified as critically polluted zone by CPCB.
- Keeping in view the EIA notification 14th September 2006, authority decided that the project attracts ‘General conditions’. According to it, any project specified in category B will be treated as Category A if located within the 10 km from the boundary of critically polluted area notified by CPCB. Authority decided that the case should be treated as category A project and returned the case to PP with suggestion to apply in MoEF for prior environment clearance.
- In **60th SEIAA meeting** dated **14-6-2011**, there was a detailed discussion on OM no J-11013/5/2010-IA-II (I) dated 24-5-2011. The OM clarifies that Building and construction sector projects, item 8(a) and township and area development projects, item no 8(b) do not attract the general conditions. Hence irrespective of their location with respect to critically polluted areas these projects would continue to remain as category B and continue to be appraised by respective SEIAAs.
- MS SEIAA and members of SEIAA were of the opinion that the OM dated 24-05-2011 by MoEF has given clarification and 8 (a) & 8(b) do not attract ‘General Conditions’ and such project would continue to be appraised by SEIAA. However, the chairman SEIAA did not agree with the opinion of the member secretary & member SEIAA based on the OM dt 24-05-2011.
- In the light of this discussion MPSEIAA in its **64th meeting** dated **04-08-2011** decided to reconsider 16 such cases including the subject case (477/2009).
- As per the directives provided in 64th SEIAA meeting case no 477/2009 was reconsidered by in **84th SEAC meeting** dated **9-11-2011** and found that the documents submitted by PP were not notarized. However, SEAC decided to recommend the case to SEIAA for grant of EC with 37 special conditions.

- In **80th SEIAA meeting** dated **19-01-2012** the case was again discussed. Authority found that the total land area is 80.81 Ha and as per the schedule 8 of EIA notification 2006 case comes under category 8(b). As the case comes under B1 category, EIA is mandatory and as the schedules require scoping for which TOR should be issued. It was found that no such TORs had been issued by MS, SEAC. The PP submitted EIA prior to issue of TORs. Therefore, entire exercise carried so far is redundant. The case was returned to PP and a letter was issued to MS, SEAC to issue TOR.
- After examining the case in **91st SEAC meeting** dated **3-03-2012**, it was found that the case was dealt & recommended in its 44th meeting and scoping was not mandatory then as MoEF notification dated 04/04/2011 & 25/01/2012 did not exist. As the EIA was already appraised in the earlier SEAC meeting, committee did not find any reason to repeat the whole exercise.
- The case was returned to SEAC vide letter no. 206 dated 18/05/2012. SEIAA requested SEAC to issue TOR to carry out EIA/EMP for the said project. Committee again discussed the case in **97th SEAC meeting** dated **14th June 2012** and planned for the site visit in July 2012.
- It was observed during the site visit that the building and infrastructure work was going on. Substantial numbers of plots were already sold by then. SEAC discussed the site visit report submitted by the subcommittee in its 103rd and 109th meeting dated 12/09/2012 & 06/11/2012, respectively. Committee decided to ask for explanation and submission of factual details by PP before issue of TOR. In 109th meeting PP submitted that the construction activities have been taken assuming deemed approval of SEIAA. SEAC issued an additional TOR on the basis of site visit report and asked the PP to submit a fresh EIA report.
- PP submitted a fresh EIA report in SEIAA and SEIAA forwarded the same to SEAC for appraisal. In **132nd meeting** dated **14th May 2013**, SEAC discussed the EIA report along with TOR compliance in presence of PP and asked for clarification on 6 points. Response was submitted by PP and the case was again presented in **143rd SEAC meeting** dated **29th October 2013**. After deliberation SEAC decided to recommend the case to SEIAA for grant of EC with some special conditions.
- SEIAA discussed the case in its **155th meeting** dated **08.08.2014**, and observed that, SEAC had not considered the case as violation with reference to GoI, MoEF OM dtd 12.12.12 and 27.06.13. SEIAA forwarded a letter to SEAC asking them so as to why the case was not considered as violation case.

- The committee observed that the matter pertaining to the violation of EIA notification 2006 was dealt by the visiting subcommittee and was endorsed by the committee. Accordingly committee recommended that the case may be considered for grant of EC only after credible legal action is ensured against the PP.
- SEIAA issued a letter to principal secretary, GoMP UD & E Department; in its 169th meeting dated 28.10.14, giving the details of violation to take action as per OM dated 12.12.12 by MoEF.
- The credible legal action has been initiated and a case no.22681/2015 under Environment (Protection) Act 1986 was filed on 21/7/2015 in the court of Chief Judicial Magistrate Indore.
- The current construction status of the township has not changed since visit by MPSEAC Sub-Committee in July 2012.
- The development consists of plotted development, group housing, infrastructure development etc.
- Some plots have been sold to individuals. Construction of Group Housing has not started yet. Total built up area of infrastructure and club house is less than 20,000 sqm.
- Permission from CGWA has already been obtained.
- MSW shall be managed through Municipal Corporation against payment.

In the presentation PP has also submitted an undertaking dated 26/11/2016 that **no new house construction in the township has been started by the M/s Aarone Developers Pvt. Ltd. since the site visit in July, 2012.** Any construction done is by individual plot owners, to whom the plots have been sold.

The committee after deliberations observed that since credible action has been initiated against the PP, the committee decided to standby with the earlier recommendations made by the committee in the 153rd SEAC meeting dated 21/10/2014 subject to any order passed by the Hon'ble Court against the case of credible action filed against the PP.

- 3. Case No. – 5323/2016 M/s Shree Shiv Patidar, Shri Darvesh Patidar, Partner, 1st Floor, Above Andhra Bank, Rohit Nagar, Bawadiya Kalan, E-8 Extension, Bhopal, (M.P.) – 462039. "SHIV AANGAN" Multi Unit Residential Block of M/s Shri Shiv Developers, at Khasra Part of 150, Part of 177 & Part of 176, Village - Salaiya, Teh. - Huzur, Distt. - Bhopal (M.P.) Total Land Area – 4.04 ha. Total**

available Land Area – 40400 sq mt., Total Built - up Area – 47497.60 sqm for Residential Building and convenient Shops. Building Construction Project.

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It's a proposed "Multi Unit Residential" Block of M/s Shri Shiv Developers, at Khasra Part of 150, Part of 177 & Part of 176, Village - Salaiya, Teh. - Huzur, Distt. - Bhopal (M.P.) Total Land Area – 4.04 ha. Total available Land Area – 40,400 sq mt., Total Built - up Area – 47,497.60 sqm for Residential Building and convenient Shops.

The case was scheduled for presentation in the 281st SEAC meeting dated 01/09/2016 but 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. PP vide letter dated 01/09/2016 has submitted that due to unavoidable circumstances they are unable to present their case today. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Today again, 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. Earlier PP was also absent in the 281st SEAC meeting. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for **delisting** assuming that PP is not interested to continue with the project.

4. Case No. – 5324/2016 M/s Leela Developers, Vill. Salaiya, Teh. Huzur, Dist. Bhopal, MP – 462001 Residential Project Proposed by M/s Leela Developers, Bhopal, Plot Area- 41500 sq. mt., Built up Area- 69388.40 sq. mt., at Khasra No. – 156, 160 Village - Salaiya, Tehsil- Huzur, Distt. - Bhopal (M.P.) Building Construction Project

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It's a proposed building construction project with plot

Area- 41,500 sq. mt., Built up Area- 69,388.40 sq. mt., at Khasra No. – 156, 160 Village - Salaiya, Tehsil- Huzur, Distt. - Bhopal (M.P.) Building Construction Project.

The case was scheduled for presentation in the 281st SEAC meeting dated 01/09/2016 but 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. PP vide letter dated 01/09/2016 has submitted that due to unavoidable circumstances they are unable to present their case today. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Today again, 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. Earlier PP was also absent in the 281st SEAC meeting. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for **delisting** assuming that PP is not interested to continue with the project.

- 5. Case No. – 5325/2016 M/s Aakar Builder & Developers, Mr. Chetan Patidar, Partner, Bhopal, MP – 462001. Residential Multi Housing Project M/s Aakar Builder & Developers, Total Land Area – 2.89 ha., Total Built up Area – 49440.72 sq. mt., for Residential Building and Convenient Shops at Khasra No. –Part of 150, Part of 177, 178, 179, 180 Vill. Saliya, Tehsil - Huzur, Distt.- Bhopal (M.P.) Building Construction Project.**

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It's a proposed "Residential Multi Housing Project" of M/s Aakar Builder & Developers, Total Land Area – 2.89 ha., Total Built up Area – 49,440.72 sq. mt., for Residential Building and Convenient Shops at Khasra No. –Part of 150, Part of 177, 178, 179, 180 Vill. Saliya, Tehsil - Huzur, Distt.- Bhopal (M.P.) Building Construction Project.

The case was scheduled for presentation in the 281st SEAC meeting dated 01/09/2016 but 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. PP vide letter dated 01/09/2016 has submitted that

due to unavoidable circumstances they are unable to present their case today. Committee decided to call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Today again, 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. Earlier PP was also absent in the 281st SEAC meeting. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for **delisting** assuming that PP is not interested to continue with the project.

6. Case No. – 5450/2016 M/s Parima Developers, 18 "Kanchan Sagar", 103/A, Old Palasia, Indore, Distt. - Indore (M.P) – 452001. "New Race Course" Residential Project at Khasra No.- 160/4/8, 160/4/9 & 160/4/10, Vill. Pipliyakumar, Teh. - Indore, Distt.- Indore, (M.P.) Total Land Area- 12,250.00 m², Total Plot Area Area- 9,547.00 m², Total Built-up Area Area- 23890.00 m² Building Construction Project.

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It's a proposed "New Race Course" Residential Project at Khasra No.- 160/4/8, 160/4/9 & 160/4/10, Vill. Pipliyakumar, Teh. - Indore, Distt.- Indore, (M.P.) Total Land Area- 12,250.00 m², Total Plot Area Area- 9,547.00 m², Total Built-up Area Area- 23890.00 m² as "Building Construction Project".

Particular	Plot	Net Area	Built up area FSI	Construction Built up	Landscape
m ²	12,250.0	9,547.00	29,906.00	28,297.70	954.70

<u>Wing</u>	<u>Configuration</u>	<u>No. of Flats</u>
<u>A1, A2</u>	<u>2 Basement Parking + Stilt Parking + 15 Residential Floor</u>	<u>116 each</u>
<u>B1, B2, B3</u>	<u>2 Basement Parking + Ground Shopping + Mezzanine + 14 Residential Floor</u>	<u>14 shops + 157 Flats</u>
<u>Club House</u>	<u>Guest room, back office, game zone, theater, etc.</u>	<u>1</u>
<u>B Wing (14th Floor)</u>	<u>Banquet hall, Library, Gym, SPA</u>	<u>1 each</u>
<u>EWS</u>		<u>25</u>
<u>LIG</u>		<u>16</u>
<u>Total no. of Flats</u>		<u>273 Flats + 14 Shops</u>

FSI Statement

<u>Sr. No.</u>	<u>Details</u>	<u>Area (m²)</u>
<u>A</u>	<u>Total Land Area</u>	<u>12,250.00</u>
<u>B</u>	<u>Deductions for Area Under Road Widening</u>	<u>2,703.00</u>
<u>C</u>	<u>Net Plot Area (A- B)</u>	<u>9,547.00</u>
<u>D</u>	<u>Amenity Space (On ground floor) (Amenity Space provided on 13th, 14th and 15th floor).</u>	<u>00</u>
<u>E</u>	<u>Open Space (10% of C)</u>	<u>954.7</u>

F	<u>Balance Area of Plot {C-(D+E)}</u>	<u>11,295.30</u>
G	<u>Permissible FSI [CX2+(BX2X2)]</u>	<u>29,906.00</u>
H	<u>Proposed Built up Area</u>	<u>28,297.70</u>

Non – FSI Statement

<u>No.</u>	<u>Description</u>	<u>Area (m²)</u>
<u>1</u>	<u>FSI Area</u>	<u>29,906.00</u>
<u>2</u>	<u>Non FSI</u>	
	<u>Staircase, Lift and Lobby Area</u>	<u>6,340.00</u>
	<u>Terrace</u>	<u>3,102.33</u>
	<u>Encl. Balcony</u>	<u>00</u>
	<u>Stilt</u>	<u>10,400.00</u>
	<u>Electrical room, lift machine room, Service Area</u>	<u>433.00</u>
<u>Total</u>	<u>Total Non FSI</u>	<u>20,275.33</u>
<u>Total 1 +2</u>	<u>Total FSI Area + Total Non FSI</u>	<u>50,181.33</u>

The case was presented by the PP and their consultant wherein PP informed that the fresh water requirement for the project is 229 KLD and dual plumbing will be provided in the project. It was also informed by the PP that Ralamandal Abhayaran (a notified PA) is >10.00 kms from the project site. After deliberations, PP was asked to provide details on following:

1. Plan of storm water drainage.
2. Details with reference to width of peripheral road and space left for the proposed peripheral plantation on layout map.
3. Detailed plantation scheme with number of trees and names of species.

- 7. Case No. – 5444/2016 Director, M/s Shivangi Rolling Mills Pvt. Ltd, 305-306, Airen Heights, B/h Pakiza, 14, PU-3, Commercial, Vijay Nagar, AB Road, Indore, MP – 452010. Expansion of Mini Steel Plant at Plot No. 460, 461 & 475 Sector 3, Industrial Area - Pithampur, Teh. - Dhar, Distt.- Dhar (M.P.) Existing Capacity - MS Ingots, Bar & Casting – 40,000 MTPA., Proposed Capacity - MS Billets, TMT Iron Bars – 2,00,000 MTPA, Land Available- 31000 sqm . Cat. 3 (a) Metallurgical Industries (Ferrous & Non Ferrous)**

This is a rolling mill project. All non –toxic secondary metallurgical processing industries manufacturing >5000 tones/annum metal components are covered under the EIA Notification 2006 as amended 2009 and are mentioned at SN 3(a), B. Hence these projects are required to obtain prior EC before establishment. The project is proposed in *Sector 3, Industrial Area - Pithampur, Teh. - Dhar, Distt.- Dhar (M.P.)*.

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 call the PP in subsequent meetings and even if the PP remains absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

- 8. Case No. – 5199/2016 Mr. Rohit Wadhwa, Director, Krishna Kunj, Gandhi Road, Gwalior -474011 Prior Environment Clearance for “The Olympia” of M/s Blue Lotus Realtors Pvt. Ltd, Teh & Distt. –Gwalior (M.P.) at Khasra no. - 45/min-2, 47, 48, 49, 50, 61/1/1, min-2, 68/2/min-2, 52, 53/1, 54, 57, 58/1, 59/min-1, 65, 58/2, 59/min-2,60, 68/2, min-3, 61/1/1/min-1, 61/2, 63, 66, 68/2/min-1, 36/1, 36/2, 37/min-1, 39, 40/1, 40/2, 44, 37/min-2,55/1. Total Plot Area -78060 sq.mt., Total Built-up Area - 142710.17 sq.mt. For – Building Construction. For - Qry reply. Presentation. Qry. 279th SEAC Meeting dt. 02/07/16.**

PROJECT FEATURES

Name of the Project	: “The Olympia” of M/s Blue Lotus Realtors Pvt. Ltd.Board.
Coordinates of Site	: 26°10’4.73"N, 78°13’2.26"E Elev. 688 ft.
Topography	: Almost Flat
Climate Season)	: Sub – Tropical (Generally dry except Monsoon

Annual Avg. Temperatures	: Max. – 33.50C, Min. – 16.60C
Annual Average Rainfall	: 910 mm
Relative Humidity	: 45% Min. & 85% Max.
Annual Dominant Wind	: NW
Railway Station from site	: Gwalior Railway Station – 8.2 Km away
Air Port	: Gwalior Airport– 17.2 Km away from site
Total Plot Area	: 78060.00 Sq. Mt.
Proposed Built-Up Area	: 142710.00 Sq.mt
Total No. of block	: 13 blocks (Res. 8, school 1, club house 1, community hall 1, commercial 1, duplex block 1,)
Total no. of units	: Residential 1424, studios 273, duplex 14, EWS 117, convenient shop 10,club house 1
Total No. of EWS	: 117 Nos.
Height of building	: B+S+30 M
Road width / MOS	: 24/12/7.5 m
Expected Population	: 8425
Water requirement	: 1234 KLD
Source of Water	: GMC Water supply
Power requirement for Commercial.	: 5514 KVA for Residential & 1288.26 KVA
Source of Power	: MPEB
Solid Waste Generation	: 4.129185 TPD
Waste Water Generation	: 1048.31 KLD - STP Proposed – 1100 KLD

Water Supply

S. No.	Item Description	Residential
1.	Domestic Water Requirement	761 KLD
2.	Flushing Water Requirement	407 KLD
3.	Landscaping & other uses	66 KLD
4.	Total Water Demand	1234 KLD
5.	STP Capacity	1048 KLD on 100% Load & 1100 KLD Proposed
6.	Available Treated Water	471 KLD
7.	Used Treated Water	472 KLD
8.	Net Fresh Water	761 KLD

Car Parking:

Flats	Car required	Cars available
2bhk	730 nos.	876 nos.
2bhk + study	260 nos.	312 nos.
3 bhk	208 nos.	250 nos.
Total	1198 Nos.	1438 Nos.

The case was scheduled for the presentation in the 279th SEAC meeting dated 02/07/2016 wherein the PP and their consultant were present. After the presentation, PP was asked to submit details on following for further consideration of the project:

1. Revised water balance details with measures proposed for the reduction in water demand and utilization of excess treated water.
2. Revised EMP wherein the cost of proposed sewage pipeline for connection with municipal corporation drain should be added.
3. Written commitment of PP that 15 meter area will be left from the HFL of the adjoining nallah.
4. In the layout of the project, some Govt. land is in existence and thus committee recommends that the surrounding area of this Govt. land should be developed as green belt for which a commitment be submitted by the PP.

5. Detailed plans of proposed commercial sectors be submitted by the PP.
6. Details protection plan of neighboring nallah be submitted.
7. Parking plan with sector wise details on layout map be submitted.

PP has submitted the reply of above vide letter dated 24/08/2016 and thus placed in the agenda for query reply the presentation.

The case was presented by the PP and their consultant wherein PP was s asked to submit response on following:

1. PP has submitted a written commitment of restricting construction activity by at least 15 meter from the adjoining nallah. However, the PP was asked to leave 15 meters from the HFL of the adjoining nallah. Thus PP was again asked to submit HFL marked on the layout map and 15 meters area left from the HFL of the nallah.
2. Similarly, PP was asked to submit detailed plans of proposed commercial sectors wherein PP has submitted typical floor plan of only 2425.45 sq. meter area while the proposed area is 24154.81378 sq. meters. Thus PP was again asked to submit the detailed plans of all the floors of proposed commercial sector.
3. PP was asked to submit details protection plan of neighboring nallah which is missing in query reply. Thus PP was again asked to submit protection plan of neighboring nallah.

9. Case No. - 4271/2015 Shri Vivek Chauhan, Partner, M/s Virasha Infrastructure, 25-6, WALMI Road, Chuna Bhatti, Bhopal-462016 Prior Environment Clearance for proposed Residential Project "Virasha Heights" at Khasra No.- 401/4/1(kha), 401/4/2 (kha), 401/2, 401/3, 401/4/3(gh), 401/4/3(ga), 401/4(ka), 401/4/3(kha), 400/2, 401/1, & 400/1, Village-Banjari, Tehsil-Huzur, District-Bhopal (MP) Total Plot Area- 29914.72 sqm, Built up Area -44591.3 sqm., CF 270 SEAC Meeting dt. 01/03/16, & Site Visit dt. 09/06/16. For – Building Construction.

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Site Specific details

Particulars	Details
Location	Khasra No. 401/4/1(kha), 401/4/2(kha), 401/2, 401/3, 401/4/3(gh), 401/4/3(ga), 401/4(ka), 401/4/3(kha), 400/2, 401/1 & 400/1 at Village- Banjari, Tehsil-Huzur, District-Bhopal, Madhya Pradesh, India.
Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	467 m above mean sea level
Latitude and Longitude	(mentioned in Fig 4)
Current status of land	Residential as per Bhopal Master Plan, 2005
Type of facilities	Housing with basic amenities
Nearest Highway	Bhopal Bypass Road (NH-12) : 8.5km (E)
Nearest railway station	Habibganj Railway Station: 5.5 km (N) Misrod Railway Station: 2.5 km (S) Bhopal Junction Railway Station: 11 km (N)
Nearest airport	Raja Bhoj International Airport:16 km (NW))
Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Van Vihar National Park:10 km(NW)
Rivers/Lakes	Upper Lake: 11 KM (NW) Kaliasot Dam : 3.50 Km (NW) Shahpura Lake: 3.50 km (N) Kaliyasot River front: 33 m (NE) Kerwa Dam : 6.5 Km (W)

Seismic zone	Seismic Zone-II as per BIS 2002 map.
Defense installations	Cantt Area (Bairagarh): 17 km (NW)

Area Statement

S. No	Items	Details
1.	Type of Building	Residential
2.	Total plot area	29914.72 m ²
3.	Net plot area	29914.72 m ²
4.	Ground Coverage Details	Permissible Multiunit @40% Plotted @60% Proposed =11850.1 m²
5.	Permissible FAR	Permissible FAR @1.25 = 37393.4 sqm Proposed FAR Total – 37393.4 m²
6.	Non- FAR details	Stilt = 6524.80 m ² Informal Sector = 673.1 m ²
7.	Total Built-up area	37393.4 m² (As per MPVPR) 44591.3 m² including Non-FAR (MoEF)
8.	Open/ Park Area(Landscape)	3239.76 m² (10.83% of net plot area)
9.	Road and internal circulation space/ Paved area	12059 m² (40.31%)
10.	No. of Trees	Total no. of trees required: 1 Tree/ 100 m ² of Open Area = (Total Planning Area-Ground Coverage)/100 = 18064.6/100=181 Trees Proposed : 185 Trees
11.	No of units to be developed	No. of multi units: 384 Duplex : 24 EWS : 33
12.	No of multi dwelling units	8 Towers
13.	Height of Building	21 m

14.	Area Utilization	(S+6)
15.	Estimated Population (fixed + floating)	Multiunit:1920 (@ 5 person per unit) Duplex : 120 (@ 5 person per unit) EWS : 165 (@ 5 person per unit) Floating: 221 (10% of total population) Staff: 110 (5% of total population)
16.	Parking facilities	Required Parking as per T&CP=250 Vehicle spaces Visitors Parking @ 10% = 25 Vehicle spaces Total = 275 Vehicle spaces Provided: Stilt Parking = 217 Vehicle Space Open Parking = 60 Vehicle Space Total Provided Parking = 277 Vehicle Space
17.	Power requirement &source	1896 kVA Source : MPMKVVCL, Bhopal
18.	Power Backup	1 DG sets of 165 kVA for common services
19.	Water Requirement and Source	Fresh water: 148 KLD Recycled treated water: 70 KLD Total water: 218 KLD Source: Municipal water supply
20.	Sewage Treatment and Disposal	Amount of waste water generated : 178 KLD STP Capacity: 210 KLD (~20% higher capacity) Technology : MBBR
21.	Solid Waste Generated	Domestic waste : 1554 kg/day Horticultural waste : 29 kg/day E- waste : <1kg/day

Population Details

Particulars	Population
Residential Population	2040
Staff	110
Visitors	221
EWS/LIG	165

Water Balance during Operation Phase

S. No.	Description	unit/Area (in m ²)	Total Occupancy	Rate of water demand (lpcd)	Total Fresh Water (KLD)	Total Flushing/Recycle d water (KLD)	Total Water Requirement (KLD)
1	Residential	408 Units	2040	Fresh Water @ 65 LPCD Flushing Water @ 21 LPCD	132.6	42.8	175.4
2	Informal Sector	33 units	165	Fresh Water @ 65 LPCD Flushing Water @ 21 LPCD	10.7	3.5	14.2
3	Staff	5% of total population	110	Fresh Water @ 30 LPCD Flushing Water @ 15 LPCD	3.3	1.7	5.0
4	Visitors	10% of total population	221	Fresh Water @ 5 LPCD Flushing Water @ 10 LPCD	1.1	2.2	3.3
Total Domestic water					148	50	198
6	Horticulture and Landscape	3239.76 sqm		5 l/sqm	--	16	16
7	Vehicle, Road washing and other low end uses				--	3	3
8	Cooling water for DG sets (For 4 hours/day runtime)	165 KVA		0.9 l/KVA/Hr	--	0.6	0.6
Total Water Requirement					148	70	218
					Grand Total = 218 KLD		

Parking Details

REQUIRED PARKING	
Required Parking as per T&CP	250 Vehicle spaces
Visitors parking @ 10%	25 Vehicle spaces
Total Parking Required	275 Vehicle spaces
PROPOSED PARKING	
Stilt Parking	217 Vehicle Space
Open Parking	60 Vehicle Space

Total Parking Provided	277 ECS
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Solid waste Generation

Facilities Provided	Waste generation norms per unit	Basis of Assumption	Unit	Total Waste Generated (Kg/day)
Residential	0.30-0.6 kg/cap/day (i.e. 0.50 kg/cap/day taken)	Source: Manual for municipal solid waste management	2040 persons	1020
EWS	0.30-0.6 kg/cap/day (i.e. 0.50 kg/cap/day taken)	Source: Manual for municipal solid waste management	165 persons	82.5
Visitors	0.15 kg/cap/day	Source: Manual for municipal solid waste management	221 persons	33.2
Staff	0.15 kg/cap/day	Source: Manual for municipal solid waste management	110 Persons	16.5
Garden & open space	15 kg/Acre/day or 0.0037 kg/sq m/day	Discussion with Horticulturists	7796.7 sqm	28.8
Street Sweepings	0.05 to 0.2 kg/cap/day* Assume 0.15 kg/cap/day	Source: Manual for municipal solid waste management	2205 persons	330.8
Sludge	400 kg per MLD	Tifac	0.178	71.2
Waste Oil		Assuming one maintenance per year		Negligible
Total Waste Generated (MT/day)				1583

Case was presented by PP and their consultant in the 270th SEAC meeting dated 01/03/2016 wherein during presentation and deliberations, it was observed that the site is within 10 Km radius of Van Vihar National Park (a Notified PA) from the Google image based on the co-ordinate provided by the PP. The clearance from NBWL is therefore requested. Committee after deliberations decided that PP should be asked to apply online for NBWL clearance and a copy of the application should be submitted to SEAC for further appraisal of the project along with the present legal status of case pending in NGT.

PP has submitted a resolution dated 16/10/2015 that approx. 65% of the project has been completed prior to the submission of application for EC. Thus committee also decided to carryout site visit as per the policy decision of 204th SEIAA meeting dated 30/05/2015 for violation cases. SEIAA has forwarded the case with documents

pertaining to credible action initiated against the PP for violation and credible action has been initiated against the PP as per MPPCB letter no. 4913 dated 01/09/2015.

As decided, Shri K. P. Nyati, Member SEAC and Dr. Alok Mittal, Member SEAC visited the site on 09/06/2016. During inspection, Dr. Abhaya k. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal was also present along with the PP Mr. Vivek Chauhan and their consultant.

Major Observations during the Site Visit:

- It was informed by the representative of PP present at the site during the site visit of the team that the total land area of the project is 29,914.72 Sq.m. and the proposed built up area of the project is 44,591.5 Sq.m.
- The Project consists of multi story housing and Duplexes with all the basic amenities. The construction work for the project is already initiated and approximately 65% civil work has already been completed. As informed by the PP, 16 blocks are proposed out of which 08 are completed, 04 are incomplete (structure completed) and 04 blocks are yet to be constructed. Possession has been given in some for some of the flats. No construction activities were observed during site visit.
- Only one Entry/exit is exists at this point in time for the project. Main entry /exits are through 12 m wide road and internal circulation roads are of 12 m, 7.5 m and 6 m width. Some internal roads have already been constructed. Peripheral plantation is present along the project boundary with approx. 100 plants.
- As per the information provided PP, drainage pattern of the project is east of the project site towards the back side of the project. STP was found operational at the time of inspection.
- For conflict free traffic and fire tender movement, arterial roads of 12 m, 7.5 m and 6 m are provided / proposed in the project. Circular roadway has been provided along the periphery of the project for movement of fire tenders. As per details provided by PP, Fire fighting equipments, such as wet risers and hose reels are proposed at site. Dedicated fire storage tanks of 25,000 liters capacity have been provided on the rooftop of the multistory buildings.
- As per the information provided by the PP during the site visit, water supply for residents will be ensured @ 86 lpcd. The water requirement for the

residents will be sourced through the municipal supply. For treatment and recycling of treated water on site STP of capacity 270 KLD is installed and was found operational. STP tanks are installed below ground level and the machine room and pumps are installed on ground. Dual plumbing system has been provided for recycling of treated waste water.

- Area for a 48 hours MSW collection & storage space has already been demarcated near the EWS area.
- As per the information provided by PP, 03 Nos. of Rain Water Harvesting structures are proposed for the harvesting of roof top runoff water out of which 02 have been constructed. PP instructed to make arrangements for the flushing of first rain water to ensure that only clean water enters the recharge system.
- As details provided by PP, 3239.76 Sq.m of area is dedicated for the landscaping purposes. PP has provided peripheral plantation.
- PP also ensured to install energy saving appliances such as LED, CFL lightings in common areas with solar lights.
- During site visit PP submitted the copy of online application filed for wild life clearance w.r.t Van Vihar National Park (a Notified PA) with proposal no. FP/MP/Others/611/2016.
- During site inspection it was observed that Kaliasot River is just about the project boundary on the northern side boundary near entry gate. PP has developed garden and landscape area towards this side. PP was asked to develop thick green belt so that 33 meter distance could be maintained from the river and no construction activity should be under taken in this area.

The above report of the sub-committee was placed before the committee in the 278th SEAC meeting dated 14/06/2016 wherein after deliberations committee endorsed the inspection report and decided that the PP may be called for the presentation in the subsequent meeting of SEAC.

The case was scheduled for the presentation in the 279th SEAC meeting dated 02/07/2016 wherein the case was presented by the PP and their consultant wherein after presentation, PP was asked to submit response on following:

1. Revised water balance should be submitted incorporating the demand for fresh water for swimming pool.

2. Parking space needs to be enhanced at least up to 384 ECS for which PP should revised parking plan.
3. It is proposed that 90 KL of surplus water will be available after completion of the project and committee suggested that this excess water should not be discharged in the Kaliasot River. Thus PP was asked to submit a plan for the disposal of this excess treated water.

PP has submitted the reply of above vide letter dated 19/09/2016 and thus placed in the agenda for query reply the presentation.

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 call the PP in subsequent meetings and if the PP remains absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

10. Case No. - 4356/2015 Shri Alpesh P. Patel, Partner, M/s Vini Industries, 2, Jupiter, Opp. Indian Bank, Dalal Colony, Daxini Maninagar, Ahmedabad, Gujarat-380008 For – EIA Presentation. Env. Cons. – San Envirotech Pvt Ltd, Ahmedabad(Guj). Environment Clearance for approval of proposed Manufacture of Synthetic Organic Chemicals Industry (Dyes & Dyes Intermediates; Bulk Drugs and Intermediates excluding drug formulation; Synthetic Rubbers; Basic Organic Chemicals other Synthetic Organic Chemicals and Chemical Intermediates) Capacity – 3150 MTPM, Land Area – 4446 sq.mt. at Plot No. – 125, AKVN, Ind. Area - Meghnagar, Th- Meghnagar, District- Jhabua (MP)

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. The proposed project is located at Plot No. 125, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

BACKGROUND

The case was presented by the PP and their consultant in the 270th SEAC meeting dated 01/03/2016 wherein committee recommended for issuance for TOR with some additional TOR's. Committee also proposes to undertake site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250th SEIAA meeting dated 14/10/2015) and after site visit if required, additional TOR may be issued.

In view of above background a team of SEAC members comprises Dr. U.R. Singh and Dr. Alok Mittal inspected the site on 14.04.2016 along with Shri. Hemant Sharma, Regional Officer, MP Pollution Control Board, Dhar & Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal. Mr. Alpesh Patel representing M/s Vini Industries was also present during the inspection. **(Site inspection report is annexed as Annexure-2)**

The Salient feature, Product Profile, Raw Material for Dyes Intermediate, Raw Material for Emulsifier, Water Balance, Solid / Hazardous waste management of the project : M/s Vini Industries are given in following tables;

<i>SALIENT FEATURE OF THE PROJECT : M/S VINI INDUSTRIES*</i>	
Project	Dye Intermediates & different emulsifier manufacturing
Location	Plot No. 125, AKVN Industrial Area, Village: Meghnagar, Taluka: Meghnagar, District: Jhabua in Madhya Pradesh.
Area for plant	4446.0 sqm
Flue gas stacks	Three; one stack attached to Boiler (600 Kg/hr), TFH (5 lakh k Cal/hr.) & one to D.G. Set (125 kVA)
Process gas stacks	One process stack
Fuel	Bio Fuel/Coal for boiler & HSD for TFH & D.G. set
Fuel consumption rate	Bio Fuel/Coal – 1.5/1.1 TPD & HSD – 1.5 TPD for TFH & 35 lit/hr. for DG set.
Power supply	Power supply from MPPKVCL Energy consumption: 50 kVA & stand by D.G. Set (1 x 125 KVA) in case of power failure
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC	

- No ecologically protected area or archeologically protected site or other environmental sensitivity has been reported within 10 km radius of the site.
- Industry has also obtained NOC for water supply from AKVN, Meghnagar

- Industry has also obtained certificate regarding the distance of interstate boundary which more than 10 km radius.

<i>Product Profile of M/S VINI INDUSTRIES*</i>		
Sr. No.	Name of Product	Quantity (MT/Month)
1	Vinyl sulphone	100
2	Acetanilide	50
3	Emulsifier a) Castor oil 40 Ethoxylate, b) Lauric Acid 10 Ethoxylate c) Nonyl Phenol 5 Ethoxylate d) Polyethylene Glycol 400 e) Octyl Palmitate f) Ethylene Glycol mono stearate g) Coco diethanol amide h) Coco monoethanol amide i) Glyceryl Mono stearate j) Glyceryl mono oleate	3000
Total		3150
By Product		
1	Acetic acid	22.1
2	Dilute sulphuric acid	390
3	HCl	120
4	Glauber salt	80
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

<i>RAW MATERIAL FOR EMULSIFIER</i>		
Sr. No.	Name of Raw Materials	Quantity (MTPM)
Vinyl Sulphone-100 MTPM		
1.	Acetanilide	52.29
2.	Chloro sulphonic acid	156.86
3.	Thionyl chloride	47.06
4.	SBS	12.29
5.	Caustic lye	83.66
6.	Ethylene oxide	27.58

7.	Spent acid	65.36
8.	Sulphuric acid	39.22
Acetanilide-50 MTPM		
1.	Aniline oil	39.00
2.	Acetic acid	8.50
3.	Acetic anhydride	2.50
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

<i>RAW MATERIAL FOR EMULSIFIER</i>		
Sr. No.	Name of Raw Material	Quantity (MT/MT)
A	Castor oil 40 Ethoxylate	
i	Castor oil	0.346
ii	Ethylene Oxide	0.654
B	Lauric Acid 10 Ethoxylate	
i	Lauryl Acid	0.312
ii	Ethylene Oxide	0.688
C	Nonyl Phenol 5 Ethoxylate	
i	Nonyl Phenol	0.360
ii	Ethylene Oxide	0.640
D	Polyethylene Glycol 400	
i	Diethylene Glycol	0.558
ii	Ethylene Oxide	0.442
E	Octyl Palmitate	
i	2-Ethylhexanol	0.345
ii	Palmitic Acid	0.655
F	Ethylene Glycol mono stearate	
i	Ethylene Glycol	0.180
ii	Stearic Acid	0.820
G	Cocodiethanolamide	
i	Fatty acid of coconut oil	0.662
ii	Diethanolamine	0.338
H	Cocomonoethanolamide	
i	Fatty acid of coconut oil	0.682
ii	Monoethanolamine	0.318
I	Glyceryl Monostearate	

i	Glycerin	0.245
ii	Stearic Acid	0.755
J	Glyceryl monooleate	
i	Glycerin	0.250
ii	1,1 diethoxy-3-methyl butane	0.750
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC		

WATER POLLUTION MEASURES AND BALANCE			
Sr. No.	Source	Water Consumption (KLD)	Wastewater Generation (KLD)
I	Domestic	3.5	3.0
II	Gardening	4.0*	--
III	Industrial		
(a)	Process	9.0	15
(b)	Water treatment	4.0	4.0
(c)	Scrubber	5.0	--
(d)	Washing	2.0*	2.0
(e)	Cooling	7.5	2.5
(f)	Boiler	2.5	0.5
Total Industrial		30.0	24.0
Total (I + II + III)		37.5	27.0
Recycle		6.0	--
Actual fresh requirement		31.5	
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC			

The source of wastewater generation will be from process, Water treatment, washing, Cooling & Boiler. Effluent generated from condensation process of VS will directly sent to MEE or spray dried & dilute stream of utility will be treated into primary effluent treatment plant, treated water from ETP will sent to RO. Recovered water from RO will be reused for washing & greenbelt development & RO reject will be sent to MEE or spray dried.

Sr . No.	Type of Waste	Category of Waste as per HWM Rules-2008	Quantity in MTPM	Disposal facility
1.	ETP Waste	34.3	2.5	Collection, storage, transportation and dispose to TSDF
2.	MEE Salt	34.3	2.5	Collection, storage, transportation and dispose to TSDF site
3.	Used Oil	5.1	0.1	Collection, storage & reuse for internal lubrication purpose. In case of excess, sell to registered re-processors.
4.	Discarded Container s/ Drums	33.3	0.5 MT or 200nos./ month	Collection, storage and disposal by selling to authorized dealers.
*Source: Information extracted by SEAC secretariat from documents submitted by PP with application for EC				

THE OBSERVATIONS; -

The observations of SEAC team (Dr. U R Singh and Dr. Alok Mittal members SEAC, Dr. Abhay Saxena oic SEAC Secretariat and Shri Hemant Sharma RO, MPPCB, Dhar) during the site visit on 14th of April'2016of the project are as follows;

- The major part of civil work and erection of machineries and has already been done at the site.
- The site is about 1.5 meter below the road level and a Nallah passes in between the road and project boundary
- Construction of office block is complete. **(Figure 1).**
- A concrete base structure beside the office block has been constructed **(Figure 2).**

- Main shed of the operational area of the plant is almost ready and several vessels have already been installed, i.e., 5 large vertical vessels, 3 large horizontal vessels along the boundary and one large horizontal vessel in the center. (**Figures 1, 3 - 6**).
- 4 big size Syntex tanks have been found lying at the site. (**Figure 7**).
- In addition to above, three RCC underground tanks have already constructed been near the main shed. (**Figures 8, 9**)

MAJOR SHORTCOMING

- There is virtually no plantation on the project site. (**Figures 1, 3, 7, 10 – 12**)
- The construction has been done in such a way that there is no scope for peripheral plantation on the site.
- The layout plan / land use break up is also not very clear. There is mismatch in different components of proposed lay out plan shown by PP during site visit and the actual construction already done at the site. However, it could not be verified because layout map / land use break up was not given in the Form-1 / papers circulated by PP to SEAC members before presentation. This may be noted that lay out plan is the basic prerequisite of the application for EC/ToR
- There is practically no provision for storm water drainage and the site is about 1.5 m below the road level. Therefore, rain water will be accumulated at the site leading to the possibility of percolation of hazardous substances to the soil and ground water.
- Within the constructed unit there are only close pipeline network. In order to ensure transparency open inter tank transfer is warranted.
- To avoid any possible percolation of hazardous chemicals, leak proof (polymer/HDPE) lining has been recommended in the cases recently appraised by the SEAC. Since the construction of working area has already been done by the PP, there seems to be little scope for such leak proof lining unless the entire structure is dismantled and all the tanks, vessels and pipelines are removed and reinstalled after leak proof lining.

After inspection PP was asked to submit response on following:

- The list of equipment and machineries with their numbers and year of installation of each one of them from date of consent to establish obtained from M. P. Pollution Control Board.
- Proposal of PP for rainstorm water management.
- Proposal of PP for increasing the ground level in premises to prevent the entry of rain water from the outside.
- Details of constructions and installations already done, showing on layout map.
- Copies of correspondences between M. P. Pollution Control Board (MP-PCB) and company, including notices/directions issued by MP-PCB (if any) with their compliance.

PP's response on above points has not been received till the date.

RECOMMENDATION

- Owing to the fact elaborated above under heading 'observation', it is, Prima facie, a case of violation under EIA notification 2006. Hence, the case has to be reappraised after credible action under MoEF OM 12/12/12.
- Most the issues enumerated above under the heading observation, shortcoming and response sought during site visit are, usually, part of DPR which is, in principle, prerequisite of ToR. Hence, PP may be asked to address these issues during reappraisal.

The above report of the sub-committee was placed before the committee wherein after deliberations committee decided that PP may be asked to submit following information as suggested by the sub-committee within 30 days:

- a. The list of equipment and machineries with their numbers and year of installation of each one of them from date of consent to establish obtained from M. P. Pollution Control Board.
- b. Proposal of PP for rainstorm water management.
- c. Proposal of PP for increasing the ground level in premises to prevent the entry of rain water from the outside.
- d. Details of constructions and installations already done, showing on layout map.

- e. Copies of correspondences between M. P. Pollution Control Board (MP-PCB) and company, including notices/directions issued by MP-PCB (if any) with their compliance.

Based on the information to be submitted by the PP, the committee will also ascertain whether it's a case of violation or not and proceed accordingly. Further in case the PP fails to submit the said information within the given time limit, the TOR approved in the 270th SEAC meeting dated 01/03/2016 may be considered for withdrawal. PP was informed for submission of above information vide office letter no. 1103 dated 27/06/2016.

PP has submitted the reply vide letter dated 05/07/2016 and also submitted the EIA report vide letter dated 12/08/2016 which was forwarded by SEIAA vide letter no. 3171/SEIAA/16 dated 16/08/2016 and the same was placed in the agenda.

The case was presented by the PP and their consultant in the 281st SEAC Meeting dt. 01/09/16 wherein PP submitted that for complying the "zero discharge concepts", they have proposed RO plant and will also install MEE. The PP was asked by committee to enhance the capacity of boiler to meet the requirement of MEE. Following suggestions were made by the committee during presentation:

1. PP should increase the ground level up to such a height that it should remain atleast 6 inches above the road level. Zero discharge is to be maintained by installing RO plant and MEE along with boiler of suitable capacity.
2. All the drains should be acid proof.
3. Thermocouple display should be interlocked with acid charging pump.
4. The entire area should be provided with doubled liner HDPE geo membrane system of thickness 1.5 mm and double leachate collection system for detection of any leachate.

After presentation, PP was asked to provide response on following:

1. All the storage tanks of raw materials/products are to be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided around the storage tanks and closed handling system of chemicals shall be provided. PP was asked to submit proposal along with necessary details for such arrangements.

2. During presentation PP submitted that the structure already erected by them was according to the consent obtained for the M. P. Pollution Control Board vide letter no. 830 dated 08/05/2015 for manufacturing of FeSo₄ and MgSo₄ and hence it's not a case of violation under EIA notification 2006. Accordingly committee asked PP to submit the details of such existing equipments which will be reused in the proposed plant.
3. A written commitment by PP that the height of ground level should be increased up to such a height that it will remain atleast 6 inches above the road level to avoid flooding .

PP has submitted the reply of above vide letter dated 15/09/2016 and thus placed in the agenda for query reply the presentation.

The case was presented by the PP and their consultant wherein PP submitted that a dike wall with acid proof lining of 1.5 times higher than the maximum storage capacity of one tank will be erected for prevention against any spillage / leakage. PP further submitted that the plot area will be raised up to desired level to protect entry of runoff water from outside to the plant premises. The reply of queries submitted by PP was found satisfactory and acceptable by the committee. The EMS and other submissions made by the PP earlier were found to be satisfactory and acceptable. Thus committee decided to recommend **the case for grant of prior EC subject to the following special conditions:**

1. The entire process area should be provided with doubled liner HDPE geo membrane system of thickness 1.5 mm and double leachate collection system for detection of any leachate.
2. Atleast eight numbers of Peizo-metric monitoring points should be provided all around the plant premises and their monitoring be done bi-monthly.
3. VOC'c detectors should be provided in all storage areas.
4. As proposed, no effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom to see entire ETP area, all out lets of storm water drains and all materials/wastes entry and exit gates. Data connectivity must be provided for all such cameras to the MPPCB's server for remote operations.

5. MEE sludge and other hazardous wastes should be sent to CTSDf, Pithampur, Dhar. 2.5 mm thick PP liner should be provided in the hazardous waste storage area to avoid soil contamination.
6. Atleast 2.5 cm of first rain water should be passed through the ETP.
7. No ground water recharge pits be provided in the plant premises.
8. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
9. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
10. The exhaust of the vehicles used for the purpose of handling, lifting and transportation within the factory such as forklifts or trucks should be fitted with the approved type of spark arrester.
11. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
12. Dyke wall should be provided for storage of liquid materials. The dyke wall should be off 1.5 times higher than the quantity of stored materials.
13. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
14. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
15. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
16. Engineered eye wash arrangements should be provided for protection against any spillage / leakages.
17. Recent MSDS of all the chemicals be displayed at appropriate places.
18. Two on-line monitoring systems for ambient air quality should be provided and data connectivity must be provided to the MPPCB's server for remote operations.

11. Case No. – 3118/2015 Shri Mr. Bhupendra singh Rathod, Partner, M/s Rathod Pharma Chem, Plot No. 184-D, Industrial Area, AKVN, Meghnagar, Jhabua (M.P.)-457779 Prior Environment Clearance for approval of proposed expansion of M/s Rathod Pharma Chem at Plot No.- 184 – D, Vill.- & Teh.-Meghnagar, District-Jhabua (M.P.) Capacity- 20 MT/Month to 4000 MT/Month. ToR (236 SEAC

Meeting dt. 01/11/15) Issued letter No. 1923 dt. 05/11/15. For - Ory reply. Presentation.

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.

PROJECT DETAILS

SN.	Features	Particulars
1	Name of Project	M/s. Rathod Pharma Chem
2	Project Location	Plot No. 184 –D, AKVN Industrial Area, Meghnagar, Ta – Meghnagar, Dist – Jhabua, M.P.
3	Co Ordinates	22 ^o 54’46.5’’N, 74 ^o 33’46.1’’E
4	S. No. in the Schedule of EIA Notification	5(f)
5	Category of the Project	B
6	Existing Production	4000 MT /year
7	Proposed Production	20 MT /M
8	Total project Cost	Existing: 1.37 Cr Proposed : 1.64 Cr. Total project Cost : 3.0 Cr.
9	Total capital Cost	167.5 Lacs
10	Total recurring Cost	98.5 Lacs
11	Water Requirement	Fresh : 8.5 KLPD Reuse :9.5 KLPD
12	Power Requirement	100 KVA + 50 KVA = 150 KVA
13	Total Plot Area	2400 Sq. meter
14	Greenbelt Area	816 Sq. meter

Sr. No.	Features	Description	Distance (Km)
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1	Nearest village	Fatepura	1.0
2	Nearest town	Jhabua Meghnagar	15 3.0
3	Water Body Creek / Nalah / lake /Pond /reservoir /canal/ Rivers / Stream / Estuary / Sea	Nagari Nadi Anas River	3.90 Km 6.75 Km
4	Nearest Highway	State Highway - 39	0.47 km
		National Highway - 59	10 km
5	Railway Station	Meghnagar	3.5
6	Airport	Ratlam	70
7	Historical / Archaeological Places	No Historical / Archaeological Places site within 10 km radius	--
8	National park / wild life sanctuary / Reserve Forest land	No National park/ wild life sanctuary / Reserve Forest land within 10 km radius.	--
9	Nearest Hospital	Jeevan Jyoti Hospital	1.5

DETAILS OF SOURCES

Sr. no.	Project Requirements	Existing	Proposed	Total After Expansion	Source/Remarks
1.	Total Water	1.0	17.0	18.0	For the proposed manufacturing activity the total water consumption will be 18.0 KL /Day. From that 9.0 KL will be condensed water from MEE, 0.5 KLPD Blow down & 8.5 KL/Day will be fresh water. Fresh Water is met from AKVNL, Meghnagar.
2.	Power	100 KVA	50 KVA	150 KVA	Madhya Pradesh Electricity Board

3.	Fuel Requirement				
A	Wood / Bio Coal / Lignite	0	5.0 MT /Day	5.0 MT /Day	Local Supplier
B	Diesel	0	25 L /Hr	25 L /Hr	Local Supplier

Details of the total Land and Land break-up.

Sr. No.	Particulars	Land Area (Sq. m.)	% of Land Use
1	Plant facilities	400	16.66
2	Storage Area (Raw materials & Finished goods) & Administrative, other buildings	400	16.66
3	Utilities	150	6.25
4	ETP area	100	4.16
5	HW storage area	50	2.08
6	Roads, Parking	150	6.25
7	Green Belt & Tree Plantation Area	816	34.00
8	Open Area	334	13.94
Total		2400	100

PRODUCT DETAILS

Sr. No.	Name of Existing Product	Existing (MT/Year)
01	Ferrous Sulphate	1000
02	Magnesium Sulphate	3000
Total		4000

Sr. No.	Name of Proposed Product	Chemical name	Quantity in MT / M.
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1	H Acid	1-amino, 8-naphthol, 3,6-disulphonic acid	20
2	Violet Acid	1 NAPHTHOL 3:6 DI SULFONIC ACID	
3	PNCBOSA	Para Nitro Chloro Benzene Ortho Sulphonic Acid	
4	4Sulpho Anthranilic Acid	2-Amino-4-Sulfo Benzoic Acid	

PACKING AND FINAL USE OF PRODUCTS

Sr. No.	Name of Product	Packing	Storage	Final use
1	H Acid (1-amino, 8-naphthol, 3,6-disulphonic acid)	HDPE BAGS	Well ventilated Godown	Used in commercial Dyes such as direct, acid, reactive dyes etc.
2	Violet Acid (1 NAPHTHOL 3:6 DI SULFONIC ACID)	HDPE BAGS	Well ventilated Godown	colorant in cosmetic formulations that are hair dyes, colors, and coloring rinses
3	PNCBOSA (Para Nitro Chloro Benzene Ortho Sulphonic Acid)	HDPE BAGS	Well ventilated Godown	Used in commercial dyestuff & dyestuff intermediates etc.
4	4 Sulpho Anthranilic Acid (4 Sulpho Anthranilic Acid)	HDPE BAGS	Well ventilated Godown	Used in commercial dyestuff & dyestuff intermediates etc.
5	Ferrous Sulphate	HDPE BAGS	Well ventilated Godown	Fertilizer, ETP treatment, Dyes Intermediate
6	Magnesium Sulphate	HDPE BAGS	Well ventilated Godown	Fertilizer, Pharma Intermediate

STORAGE FACILITY OF RAW MATERIAL

Sr. No.	Name of Raw Material	Container Type	MOC Container	Physical form	At a time storage in MT	Max. Storage Capacity in MT
1	Nitric Acid	Tank	S.S.	Liquid	10	14.00
2	Acetic Acid	50 Lit Drum	H.D.P.E	Liquid	1	1.00
3	Methanol	200 Lit Drum	Plastic/M.S.	Liquid	1	1.5
4	Sulphuric Acid	Tank	M.S	Liquid	20	62.50
5	Oleum	Tank	M.S	Liquid	20	75.00
6	Spent Sulfuric Acid	Tank	M.S.R.L.	Liquid	20	292.50
7	ONT (Ortho Nitro Toluene)	Tank	Plastic/M.S.	Liquid	10	28.01
8	Glauber Salt	50 kg Bags	H.D.P.E	Solid	15	50.00
9	Naphthalene	25/ 50 kg Bags	H.D.P.E	Solid	10	25.00
10	Soda Ash	50 kg Bags	H.D.P.E	Solid	10	25.00
11	PNCB (Para Nitro Chloro Benzene)	50 kg bag	H.D.P.E	Solid	5	9.30
12	Salt	50 kg Bags	H.D.P.E	Solid	5	13.95
13	Cast iron Powder	50 kg Bags	H.D.P.E	Solid	5	13.00
14	Caustic Flakes	50 kg Bags	H.D.P.E	Solid	10	33.61
15	Limestone Powder	50 kg Bags	H.D.P.E	Solid	20	68.00
16	Magnesium Carbonate	50 kg Bags	H.D.P.E	Solid	10	25

WATER CONSUMPTION & WASTEWATER GENERATION

S N	Application	Qty. KL/Day	
		Water Consumption	Effluent Generation

		Existing	Proposed	Total after expansion	Existing	Proposed	Total after expansion
01	Domestic	0.5	1.0	1.5	0.3	0.80	1.1
02	Industrial						
	Process	0.5	8.0	8.5	0.0	5.69	5.69
	Cooling	0.0	1.0	1.0	0.0	0.10	0.10
	Boiler	0.0	4.0	4.0	0.0	0.40	0.40
	Washing	0.0	1.0	1.0	0.0	1.00	1.00
	Gardenin g	0.0	1.0	1.0	0.0	0.00	0.00
	Scrubber	0.0	1.0	1.0	0.0	0.00	0.00
Total		1.0	17.0	18.0	0.3	7.99	8.29

Overall water Balance only for Process: Unit is in KL /Day

Sr. No.	Name of Product (Alternative 20 MT/M Production)	Water Consumption KL /Day	Spent Acid Consumption KL /Day	Spent Acid generation KL /Day	Waste water Generation KL /Day
1.	H Acid (1-amino, 8-naphthol, 3,6-disulphonic acid)	1.66	7.14	10.15	1.90
2.	Violet Acid (1 NAPHTHOL 3:6 DI SULFONIC ACID)	2.0	11.70	16.84	4.0
3.	PNCBOSA (Para Nitro Chloro Benzene Ortho Sulphonic Acid)	2.98	--	3.59	--
4.	4 Sulpho Anthranilic Acid (2-Amino-4-Sulfo Benzoic Acid)	8.0	--	14.89	8.0

DETAILS OF HAZARDOUS WASTE GENERATION

Sr. No	Type of Waste	Quantity			Management
		Existing	Proposed	Total After Expansion	
01	ETP Waste (Cat. 34.3)	0	37.5 MT/M	37.5 MT/M	Collection, Storage, Transportation and disposal at TSDF.
02	Used/Spent Oil (Cat. No. 5.1)	50 L/Yr	0	50 L/Yr	Reused for lubrication of plant machinery.
03	Discarded Bags & containers (Cat. No.33.3)	0.250 MT /M	3 MT/M	3.250 MT /M	Bags/ Drums will be return back to raw material supplier.
04	Iron Sludge	31 MT /M	33 MT/M	64 MT/M	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
05	Gypsum Sludge	7 MT /M	146 MT/M	153 MT/M	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
06	Spray Drying Powder	0	6.5 MT /M	6.5 MT /M	Collection, Storage, Transportation and disposal at TSDF.
07	Glauber salt from Crystallization	0	82.5 MT /M	82.5 MT /M	Will be reused in process of Violet Acid and H acid.
08	Spent Acid	0	16.84 KL /Day	16.84 KL /Day	Collection, Storage, reuses in Plant or sell to authorize users.

MANAGEMENT OF HAZARDOUS WASTE

No.	Type of Waste	Source of Generation	Collection	Treatment	Storage	Disposal
01	ETP Waste (Cat. No.: 34.3)	Effluent Treatment Plant	Manual	Solar Drying	Packed into HDPE Bags, store into storage area	Collection, Storage, Transportation & Dispose to TSDF Site.
02	Spent Oil/Used Oil (Cat. No.: 5.1)	Plant Machineries	Manual	-	Separate store into SWSA after filling into drums.	Used Oil will be reused as a lubricant in plant machineries. Spent oil sell to authorized recycler.
03	Discarded Containers (Bag, Barrel, Drum) (Cat. No.: 33.3)	Production Section	Manual	Washing & Drying	Separate store into SWSA.	Return back to raw material supplier or used for packing of ETP waste.
04	Iron Sludge	Process	Manual	-	-	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
05	Gypsum Sludge	Process	Manual	-	-	Collection, Storage, Transportation and disposal at TSDF or sell to Cement Industries after approval of sample
06	Spray Drying Powder	Spray Dryer	Manual	-	Separate store into SWSA.	Collection, Storage, Transportation & Dispose to TSDF

						Site.
07	Glauber salt from Crystallization	Process	Manual	-	Separate store into SWSA.	Will be reused in process of violet Acid ad H Acid.
08	Spent Acid	Process	Manual	-	Separate store into SWSA.	Collection, Storage, reuse in Plant or sell to authorized users.

The TOR was issued to this unit in the 206th SEAC meeting dated 21/07/2015 and Committee also decided to carryout site visit for this proposed unit and if any additional TORs are to be included in EIA, will be given after site visit. The site visit was carried out by sub-committee of SEAC on dated 20/12/2015 and the report was discussed in the 256th SEAC meeting dated 03/01/2016 wherein PP was asked to provide information on following:

- a. Justification for the installation of above equipments for the production of only 4000 MT/Y of existing products.
- b. The list of equipment and machineries with year of installation of each one of them after 28/08/2014 from date of consent to establish obtained from M. P. Pollution Control Board.
- c. The product-wise monthly production details from 2014 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
- d. The product-wise monthly consumption of raw materials from 2014 till date.
- e. Copies of consent and authorization under HW (M,H & TBM) Rules, 2008 obtained from M. P. Pollution Control Board.
- f. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
- g. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
- h. Details of hazardous wastes with their respective quantities generated since 2014 and their mode of disposal with documentary evidences.
- i. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.

Regional Officer, M. P. Pollution Control Board, Dhar was also instructed to provide details of any notices/directions issued to the company and compliance report of consent conditions issued for earlier products. Similarly, analysis reports of waste

water and any other solid/hazardous wastes collected from the premises of the unit, if any.

Regional Officer, M.P. Pollution Control Board, Dhar submitted the information vide letter no. 13 dated 11/04/2016 and similarly PP submitted the desired information vide letter dated 02/02/2016. As above, PP also submitted the EIA report and case was scheduled for the presentation.

The case was presented by the PP and their consultant in the 278th SEAC Meeting dt. 14/06/16 wherein after presentation, PP was asked to submit response on following for further consideration of the project has to come up again for presentation with reply of above queries:

1. Maximum demand of water/month and its daily consumption should be recalculated and submitted.
2. Written commitment of PP that MEE will be operated by thermic fluid heater and proposal for standby thermic fluid heater.
3. Energy balance required for MEE and production process.
4. Detailed analysis for Iron Sludge, Gypsum Sludge, ETP Sludge, Spray Drying Powder for hazardous constituents.
5. Storage details of all hazardous wastes in premises with respect to storage area, liner details, arrangements made for leachates collection etc.
6. Precautions proposed for workers against exposure of raw materials/ intermediates having low boiling points.
7. TOR point no. 4(5), 4(9) and 5(2) needs elaboration.
8. Site specific risk assessment report as submitted report is not site specific.
9. Revised layout for proposed plantation.
10. Details of existing industries with their type should be resubmitted.

PP has submitted the reply of above vide letter dated 07/10/2016 and thus placed in the agenda for query reply the presentation.

The case was presented by the PP and their consultant wherein PP submitted that they will install steam boiler of suitable capacity to meet the requirements of MEE in place of thermic fluid heater. PP further submitted that 2.5 mm thick PP liner will be provided in the hazardous waste storage area to avoid soil contamination. The reply of queries submitted by PP was found satisfactory and acceptable by the committee. The EMS and other submissions made by the PP earlier were found to be satisfactory and

acceptable. Thus committee decided to recommend **the case for grant of prior EC subject to the following special conditions:**

1. The entire process area should be provided with doubled liner HDPE geo membrane system of thickness 1.5 mm and double leachate collection system for detection of any leachate.
2. Atleast eight numbers of Peizo-metric monitoring points should be provided all around the plant premises and their monitoring be done bi-monthly.
3. VOC's detectors should be provided in all storage areas.
4. As proposed, no effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom to see entire ETP area, all out lets of storm water drains and all materials/wastes entry and exit gates. Data connectivity must be provided for all such cameras to the MPPCB's server for remote operations.
5. MEE sludge and other hazardous wastes should be sent to CTSDf, Pithampur, Dhar. 2.5 mm thick PP liner should be provided in the hazardous waste storage area to avoid soil contamination.
6. Atleast 2.5 cm of first rain water should be passed through the ETP.
7. No ground water recharge pits be provided in the plant premises.
8. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
9. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
10. The exhaust of the vehicles used for the purpose of handling, lifting and transportation within the factory such as forklifts or trucks should be fitted with the approved type of spark arrester.
11. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
12. Dyke wall should be provided for storage of liquid materials. The dyke wall should be off 1.5 times higher than the quantity of stored materials.
13. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
14. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.

15. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
16. Engineered eye wash arrangements should be provided for protection against any spillage / leakages.
17. Recent MSDS of all the chemicals be displayed at appropriate places.
18. Two on-line monitoring systems for ambient air quality should be provided and data connectivity must be provided to the MPPCB's server for remote operations.

12. Case No. - 5374/2016 Executive Engineer, M.P. Housing and Infrastructure Development Board, Div.- Sagar, District – Damoh (M.P.)Development of 11.87 hect. land & Construction of Residential House, at Damyanti Puram, Rajnagar Raiyatwari Distt. - Damoh, (M.P.) Total Plot Area- 168819.00 Sqm., (Construction Area - 30581.15 Sqm)

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and requires environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. It's a proposed project for development of 11.87 hect. land & Construction of Residential House Total Plot Area- 168819.00 Sqm., (Construction Area - 30581.15 Sqm) at Damyanti Puram, Rajnagar Raiyatwari Distt. - Damoh, (M.P.)

BRIEF DESCRIPTION OF THE PROJECT

Sr. No.	PROJECT REQUIREMENT	DETAILS
1	Name of the Project	‘ATAL ASHRAY YOJANA‘
2	Type of the Project	Affordable Housing Project
3	Location	Khasra No. 52/1,52/3,53,54,55/1,57/3 of Rajnagar Raiyatwari, Tehsil – Damoh District- Damoh, Madhya Pradesh.

4	Developers	Madhya Pradesh Housing And Infrastructure Development Board, Division Sagar	
5	Plot Area (sq.m.)	1,68,800	
6	Development Area (sq.m.)	1,18,700	
8	Total Construction Area (sq.m.)	30,581.15	
9	Landscaped Green Area (sq.m.)	11675 (Garden) +20000 (on Hill area)=31675 sqm	
10	Tenements (nos)	LIG - 390	EWS - 477
11	Occupancy (nos)	2,385	1,950
12	Total Water Requirement (KLD)	700	
13	Sewage Generated (KLD)	560	
14	Solid waste Generated kg/day	2520	
15	No. of Parking Proposed (nos)	Total No. of parking – 420 ECU (126 Scooter)	
16	Total Power Requirement	4000 kVA	
17	Total Project Cost (Lakhs)	7817.51	
18	EMP Cost (Lakhs)	563.41	
19	Litigation/Court Cases	None	

WATER REQUIREMENT DURING OPERATION PHASE

Unit Types	Number	Total Occupancy	Rate of Water (LPCD)	Domestic (KLD)	Flushing (KLD)	Total (KLD)	Waste Water (KLD)
EWS	477	2385	135	225.3825	96.5925	321.975	273.679
LIG	390	1950	135	184.275	78.975	263.25	223.763
School	1	500	45	15.75	6.75	22.5	19.125
Dispensary	1	50	450	15.75	6.75	22.5	19.125
Commercial	50	120	45	3.78	1.62	5.4	4.59
Community centre	1	750	15	7.875	3.375	11.25	9.5625
visitors		500	15	5.25	2.25	7.5	6.375
Horticulture	Sq m	34459	5		172.295		
Total Waste water Generated							Say 560

SOLID WASTE GENERATION DURING OPERATION PHASE

S.No.	Source of Solid Waste Generation	Waste Generation Rate (kg/cap/day)	Total Population	Waste Generated (kg/day)
1	EWS	0.45	2385	1073.25
2	LIG	0.45	1950	877.5
3	School	0.45	500	225
4	Dispensary	2	50	100
5	Commercial	0.45	120	54

6	Community centre	0.15	750	112.5
7	visitors	0.15	500	75
			Total	2520

The case was presented by the PP and their consultant 282nd SEAC Meeting dt. 10/10/16 wherein after presentation, PP was asked to submit following information:

- A. Whether the proposed location of the project is within the approved master plan of the Damoh city and the existing land use of the site is “Residential”.
- B. During presentation it was informed by the PP that there are some unauthorized settlements on the project site and they will be rehabilitated as per the Govt. rules. Thus the PP was asked to provide the complete details of such settlements such as their number, nature of settlements (temporary hutments or permanent structures), photographs of the settlements and copies of any notices served to them for vacating the project site.
- C. What will be the impact on project if entire FAR is utilized by the occupants of independent LIG & EWS-worst case scenario be calculated and presented or a written commitment by PP that no expansion/further construction will be allowed.
- D. Revised existing and proposed land use of the project as table presented is different from the table given in handouts.
- E. Two STP’s should be planned as per the drainage pattern of the site or suitable alternate proposal be provided.
- F. Revised treated water balance excluding water proposed for “General washing purpose” along with the disposal plan of 374 KLD of treated waste water.
- G. Revised cost of EMP incorporating the cost of STP in it.
- H. Location of dispensary on layout map.
- I. Plantation scheme with proposal for peripheral plantation.

PP has submitted the reply of above vide letter dated 10/11/2016 and thus placed in the agenda for query reply the presentation.

The case was presented by the PP and their consultant wherein PP submitted that the fresh water requirement for this project is 700 KLD and no duel plumbing is proposed as it’s an affordable housing project. PP further submitted that they have proposed two STP’s of 200 KL and 500 KL respectively as per the drainage pattern of the site. It

was also submitted by PP that no enhancement in the proposed construction area will be permitted by them. The other submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 700 KLD.
2. The excess treated water will be used for watering of municipal road side green area or efforts shall be made to supply this water to the construction sites for use in the construction works.
3. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 10,000 no of trees will be planned in residential area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
4. As proposed by PP, dense plantation should be carried out on hillock of 4.00 ha adjacent to the project location which should be irrigated by the treated effluent.
5. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
6. Power back-up for un-interrupted operations of STP shall be ensured.
7. CFL/LED should be preferred over of tube lights.
8. Fund should be exclusively earmarked for the implementation of EMP.
9. MSW storage area should have 48 hours storage capacity.
10. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
11. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
12. PP will obtain other necessary clearances/NOC from respective authorities.
13. PP will comply with all the commitments made in by the letter dated 10/11/2016.
14. Conditions imposed by Nagar Palika Parishad, Damoh vide letter no. 1344 dated 19/08/2016 should be implemented by the PP.

DISCUSSIONS ON CASES WHEREIN QUERY REPLIES ARE SUBMITTED BY PP's

13. Case No. - 4258/2015 Shri Virendra Pokharna, Director, M/s Indra Industries Limited, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP)-452010 Prior

Environment Clearance for expansion of Chemical Fertilizers Proposed Capacity - SSP from 45,000 to 75,000 MTPA & GSSP-1,20,000 MTPA, at Khasra no.- 2132/8, 2131/1, 2132/1/2/1, 2132/5, 2132/1/13, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP) EIA Consultant: EQMS, Delhi.

The project pertains to Environment Clearance for expansion of Chemical Fertilizers Proposed Capacity - SSP from 45,000 to 75,000 MTPA & GSSP-1,20,000 MTPA, at Khasra no.- 2132/8, 2131/1, 2132/1/2/1, 2132/5, 2132/1/13, Village-Sandla, Tehsil-Badnawar, District-Dhar (MP) and the EIA is forwarded by the SEIAA to SEAC for appraisal and necessary recommendations.

The TOR of this project was issued by MoEF&CC 28/01/2013 and the file was transferred to MPSEIAA on dated 18/08/2015 for further considerations. Chronology is of event is given below:

- Approval of TOR by MOEF&CC January 2013
- Public hearing on 28 Oct 2014
- Online submission the Final EIA report to MOEF&CC on 1st May 2015.
- Re-categorization of the project as category B due to exemption from EC for GSSP and Zinc Sulphate as the amendment in EIA notification in May 2015.
- Transfer of case file to Madhya Pradesh SEIAA for further consideration by MoEF&CC on 31th May 2015.
- Re-Submission of online application on MPSEIAA on 19th September 2015.

Total project area is 17750 m². of which 5857 m² area is proposed for green area development. Total water requirement is estimated as 90 KLD. Total investment is about Rs 5.00 crore. It is proposed as zero discharge plant.

The case was earlier scheduled in the 270th SEAC meeting dated 01/03/2016 wherein the PP and their consultant came for the presentation but SEAC members informed that they have not received the EIA document well in advance and thus unable to study the project. Thus committee decided that PP may be called in subsequent meetings of SEAC for presentation and advised PP to send the documents well in advance for reference.

The case was presented by the PP and their consultant in the 272nd SEAC meeting dated 31/03/2016 wherein after presentation it was observed by the members that very casual approach has been adopted by the consultant while carrying out the EIA studies and the quality of EIA report is also very poor. Thus committee decided that EIA needs to be revised in the light of following observations:

1. The selection of ambient air quality monitoring stations is inappropriate as other than the project site, all the other monitoring stations were located >2.00 Km or above distance while the prediction is showing maximum incremental GLC at a distance of 200 meters.
2. With the expansion of the project maximum incremental PM is shown as 103 ug/m³ but sufficient protective measures / Pollution Control Devices are not proposed in the EMP to address this issue.
3. Regional Geology is provided in the EIA which has no relevance with the project.
4. Coal is mentioned as expected Hazardous waste.
5. Rs. 80.00 lacks (out of 5.00 cr. For expansion) has been proposed under the green belt development for which no backup calculation has been submitted.
6. Complete proceedings of public hearing are not provided in the EIA report.
7. From zinc sulphate plant hydrogen generation is shown in traces.
8. As per the EIA report 33% area is shown for plantation while in the same report it is mentioned that plantation depends on rain fall.
9. In table 1.1, TOR compliance status for TOR no.6 it is mentioned that the details of consent to operate and authorization are given as Annexure-6 but the same is not annexed at annexure-6.

PP has submitted the EIA report vide letter dated 24/08/2016 and the same was forwarded by the SEIAA vide letter no. 3277/SEIAA/16 dated 27/08/2016 and case was scheduled for the EIA presentation in the 278th SEAC meeting dated 14/06/2016 but 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 call the PP in subsequent meetings after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by the PP and their consultant in the 281st SEAC meeting dated 01/09/2016 wherein committee suggested that generated hydrogen from zinc sulphate plant should be flared. (If possible). After presentation, PP was asked to provide response on following:

1. Proposed plantation duly marked on layout map with its budgetary provisions.
2. Revised EMP & CSR incorporating budgetary allocations as per the commitments submitted in public hearing.

PP has submitted the reply of above vide letter dated 08/09/2016 which was forwarded by the SEIAA vide letter no. 3717/SEIAA/16 dated 20/09/2016 and the same was placed before the committee for consideration. The query responses submitted by PP were found to be satisfactory and acceptable by the committee. The other submissions made by the PP earlier were found to be satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. All vents from the exhausts of the processes shall be connected to a scrubbing system and the scrubbing media shall be treated through the effluent treatment plant or recycled for acid dilution.
2. Zero liquid discharge shall be observed and no treated waste water should be discharged outside the plant premises. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom to see entire ETP area, all out lets of storm water drains and all materials/wastes entry and exit gates. Data connectivity must be provided for all such cameras to the MPPCB's server for remote operations.
3. Fresh water requirement in the project shall not exceed 90 KLD.
4. As proposed, appropriate APCD should be provided in the SSP Plant (cyclone), GSSP plant (Twin cyclone) and Zinc Sulphate Plant (Ventury Scrubber).
5. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
6. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
7. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended and the Public Liability Insurance Act for handling of hazardous chemicals etc.
8. Water intensive green area including thick green-belt as proposed shall be developed in to mitigate the effect of fugitive emissions all around the plant in consultation with the forest department as per the guidelines of CPCB.
9. PP should also explore the possibility of green belt development outside the plant premises in consultation with district authority.
10. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height

shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.

11. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
12. Engineered eye wash arrangements should be provided for protection against any spillage / leakages.
13. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
14. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
15. Two on-line monitoring systems for ambient air quality should be provided and data connectivity must be provided to the MPPCB's server for remote operations.
16. PP should also explore the possibility of green belt development outside the plant premises in consultation with district authority.
17. The commitments made in the public hearing are to be fulfilled by the PP.
18. PP will comply with all the commitments made in by the letter dated 08/09/2016.
19. 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.

14. Case No. - 4190/2015 Shri M.K. Sahu, Executive Engineer, M.P. Housing & Infrastructure Development Board, Div. No. 1, GTB Complex, New Market, Bhopal (MP)-462011 Prior Environment Clearance for proposed construction of EWS & LIG Colony at Khasra No.- 219, Village-Khajlikheda Mahabadia, Tehsil-Huzur, District-Bhopal (MP) Plot Area- 40469 sqm, Built up Area -51597.4 sqm.(Consultant: Greencindia Consulting Pvt. Ltd, NCR, Ghaziabad)

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14th September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

The proposed site is located in village KajliKheda, Bhopal. The site is well connected by Kolar Road which is running at a distance of 0.70 km from the project site in eastern direction. This Kolar Road connects the project site to the Bhopal City. The site is about 17.3 km from Bhopal Junction (N), 13.4 km from Habib Ganj Railway Station (NNE) & 20.6 km from Raja Bhoj International Airport (NNW).

Description of the Proposed Project

Proposed project have the total plot area of 4.04 hectares (40469 m²).It has been proposed to achieve ground coverage of 11,934.7 m²with FAR area 36,983.7 m² and Non- FAR area 14,613.7 m².

Project Name	:	Environment Clearance for Construction of EWS & LIG Colony at village KajliKhedaMahabadia, Bhopal, M.P.					
Population (no.)	:	4,560					
Land Requirement (in m²)	:	PlotArea	Ground Coverage	Green Area	Services	Road & Parking	Open Area
		40,469	11,934.7	5,777.0	2,100.0	11,571.5	9,085.8
Built-up Area (in m²)	:	FAR		Non-FAR		Total	
		36,983.7		14,613.7		51,597.4	
Dwelling units (no.)	:	912					
Proposed Parking (ECS)	:	556					
Water Requirement	:	Phases	Fresh Water in KLD	Treated Water in KLD	Total Water in KLD		
		Construction	9.5	113.9	123.4		
		Operation	437.3	216.3	653.6		
STP	:	620KLD MBBR Technology STP					
Solid Waste Generation	:	3,195 kg/day					
Power Requirement	:	3,000 kVA, M.P State Electricity Board					

Emergency Power Back-up	:	1 of 160KVA
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Water Consumption

a) Construction Phase:

It is estimated that total water demand during construction phase is 123.4 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The water requirement for construction, domestic activities and landscaping are 81.0 KLD, 13.5 KLD and 28.8 KLD respectively. Out of total water demand of 123.4 KLD, fresh water requirement of 9.5 KLD will be met by Authorized private Tanker and remaining water demand of 113.9 KLD is met through Treated water of Development Authority. By using the 86 LPCD of water as per MOEF standards, the total water requirement will be 118.49 KLD.

b) Operation Phase:

It is estimated that the total water demand during the operation phase will be 653.6 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The fresh water requirement is calculated to 437.3 KLD, whereas treated water in the tune of 216.3 KLD will be used for the landscaping, flushing and miscellaneous purpose. The fresh water demand will be met from bore wells. By using the 86 LPCD of water as per MOEF standards, the total water requirement has reduced to 430.13 KLD. This help in water conservation of 34.2%, so we will use MOEF standard for water requirement.

Power Requirement

Construction Phase:

During construction phase the estimated electrical load will be 250 KVA. Power backup of 150 KVA in the form of DG set will be provided. The supply will be by MP State Electricity Board.

Operation Phase:

During Operation phase the estimated electrical load is 3000 KVA. The supply will be by MP State Electricity Board. Power back-up will be provided by the

DG sets of capacity 160 kVA only for lifts and lighting at common places. Stack height of 27 m will be provided as per CPCB guidelines. DG sets will be installed with acoustic enclosures.

Parking Needs

Total parking required for the LIG block according to Madhya Pradesh Bhumi Vikas Rules is 516 ECS and the parking proposed is 556 ECS.

Greenbelt Development

Construction Phase:

The proposed project site is almost vacant with scanty grasses and few trees which will be preserved as a part of greenbelt development. During the construction period, it is to be ensured that there is no exploitation of trees around the project area especially for obtaining fuel wood by the workers. Guards may be deputed to ensure the same.

Operational Phase:

An area of 5777 m² has been identified for greenbelt development. The green area should be properly maintained and dead plants should be regularly replaced. Total 678 local trees will be planted along the 9m and 12m wide road side.

Water Consumption

a) Construction Phase:

It is estimated that total water demand during construction phase is 123.4 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The water requirement for construction, domestic activities and landscaping are 81.0 KLD, 13.5 KLD and 28.8 KLD respectively. Out of total water demand of 123.4 KLD, fresh water requirement of 9.5 KLD will be met by Authorized private Tanker and remaining water demand of 113.9 KLD is met through Treated water of Development Authority. By using the 86 LPCD of water as per MOEF standards, the total water requirement will be 118.49 KLD

b) Operation Phase:

It is estimated that the total water demand during the operation phase will be 653.6 KLD based on 135 LPCD water for domestic consumption as per CPHEEO standards. The fresh water requirement is calculated to 437.3 KLD, whereas treated water in the tune of 216.3 KLD will be used for the landscaping, flushing and miscellaneous purpose. The fresh water demand will be met from bore wells. By using the 86 LPCD of water as per MOEF standards, the total water requirement has reduced to 430.13 KLD. This help in water conservation of 34.2%, so we will use MOEF standard for water requirement.

Wastewater Treatment & Disposal

Construction Phase:

5.36 KLD of wastewater will be generated during construction phase from the domestic activities. The sanitation facilities will be provided in terms of Mobile Toilet.

Operation Phase:

Approximately 350 KLD of wastewater will be generated from the fresh water. Overall 518 KLD of waste water will generated during the operation phase. Adhering to 86LPCD water will lead to 35.8% reduction in waste generation compared to the 135 LPCD of water.

Sewage Treatment Plant: Minimum capacity of STP proposed is 400 KLD, This will be increased to 620 KLD in further phases (20% excess of capacity of total generated waste water) based on MBBR Technology is proposed to be constructed within the proposed project. The treated wastewater will be used for flushing, landscaping, road washing, water sprinkling, car washing and miscellaneous purposes.

The case was presented by the PP and their consultant in the 270th SEAC meeting dated 01/03/2016 wherein in it was observed that the total fresh water requirement is 437.3 KLD and for conservation of water, dual plumbing is proposed. After presentation PP was asked to submit response on following quaries:

1. Submit CGWB permission for abstraction of ground water as per OM of SEIAA no. 4253 dated 03/08/2015.

2. Submit permission of concerned authority for disposal of municipal solid waste as per OM of SEIAA no. 4253 dated 03/08/2015.
3. Disposal plan for excess treated water and if
 - (a) The disposal is through municipal drain submit permission of concerned authority as per OM of SEIAA no. 4253 dated 03/08/2015 and
 - (b) The disposal is in the nearby natural drain please provide the details of water body where this drain ultimately meets.
4. Submit the details of provisions made to reduce the water demand to 86 LPCD.

PP vide letter no. 4291/TS/DN I/2016 dated 19/10/2016 has submitted that the land at Mahabadia is beyond planning area of Bhopal hence it is creating difficulties in getting various approvals desired by SEAC and requested for further time to get these approvals which was placed before the committee. Committee after deliberations decided that since the case is pending from a long time. 30 days time may be given to the PP for submission of the desired information and if the same is not received, in time the case may be recommended for delisting to SEIAA.

15. Case no. 701/2012 - Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, TulsiNagar, Bhopal (M.P.) – 462-003 Cheantikheda (Medium) Irrigation Project Catchment Area- 481.25 Sq.km., Gross Storage Capacity – 61.05 MCM, Live Storage Capacity – 55.45 MCM, Gross Command Area – 11033.00 ha., Cultivable Command Area 8230.00 ha., at Village – Arrood, Tehsil – Vijaypur, Distt. – Sheopur (M.P.)

It's a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA.

The TOR was approved in the 94th SEAC meeting dated 07/05/2012 and the same was issued to the PP vide letter no. 302 dated 20/06/2012 which was valid for 02 years. The validity of TOR expired on 19/06/2014. Later on, as per the request of PP, the TOR's validity was extended up to 19/06/2016 vide letter no. 45 dated 10/04/2015.

The above case was placed before the committee as the TOR validity has expired on 19/06/2016. The committee observed that PP has neither submitted the EIA report nor has applied for the extension of TOR's validity period and thus after deliberations decided that this case may be recommended for delisting to SEIAA as TOR's validity has expired.

16. Case No. - 3060/2015 Shri Anil Khanna, Authorized Signatory, M/s Fortune Builders, Fortune House, 157, Zone-1, M.P. Nagar, Bhopal (M.P.)-462011 Prior Environment Clearance for approval of proposed Group Housing Project "Fortune Executive" at Khasra No.-147/4/3, 147/3/1/3(Ka), 147/4/1(ka), 147/4/1/(kha) Village-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area- 9620 m²(0.962 Ha., Capacity - Or 2.38 Acre) Total Built up 22089.8 m²

This is a case for Prior Environment Clearance for approval of proposed Group Housing Project "Fortune Executive" at Khasra No.-147/4/3, 147/3/1/3(Ka), 147/4/1(ka), 147/4/1/(kha) Village-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (M.P.) Total Project Area- 9620 m²(0.962 Ha., Capacity - Or 2.38 Acre) Total Built up 22089.8 m². This is a building construction project comprising total plot area of 0.962 ha and total built-up area of 22,089.8 sq. mt for residential development. The project falls under category 8 (a) of the Schedule of EIA Notification, hence requires prior EC before commencement of any activity on site. The case was presented before the committee by the PP and his consultant. The submissions and the presentation revealed following aspects of the project:

The salient features of the project include: development of Residential complex such as Group Housing, LIG and EWS and Sufficient green area.

PROJECT DETAILS

S. No.	Project Requirement	Details
1	Proposed Project	Fortune Executive
2	Location	Khasra No. 147/4/3, 147/3/1/3(ka), 147/4/1(ka), 147/4/1/(kha) at Village-Bawadia Kalan, Tehsil- Huzur, District-Bhopal, Madhya Pradesh, India.
3	Owners and Developers	M/s Fortune Builders, Bhopal.

4	Nearest Railway Station	Habibganj Railway Station: 5.0km (NE) Misrod Railway Station: 2.5 km (SE) Bhopal Junction Railway Station: 10.5 km (NW)
5	Nearest Airport	Bhopal -15.5 km (NW)
6	Plot Area	9620 m ² (0.962 Ha)
5	Proposed Built-up Area	22,089.8 m ²
6	Open/ Park Area (Landscape)	1568.5 Sq mt
8	Ground Coverage	2762.6 Sq mt
9	Permissible FAR	Permissible FAR @2.0 9208 x 2=18416 m ² FAR against road widening@4 411.33 x 4=1645.32 m ² Total – 20061.32 m ²
10	Achieved FAR	Block A = 8942.26 m ² Block B = 5601.67 m ² Shops cum = 1426.39 m ² Residential Club House = 605.76 m ² Total FAR = 16576.08 m ²
11	Dwelling Units	Dwelling Units - 117 EWS/LIG - 18
12	Total Population	Residential: 585 (@ 5 person per unit) EWS/LIG : 90 (@ 5 person per unit)
13	Total Water requirement	106 KLD
14	Total Fresh Water requirement	63 KLD
15	Wastewater Generation	85 KLD
16	STP Capacity	100 KLD
17	Solid waste generated	Domestic waste : 352 kg/day Horticultural waste : 6 kg/day
18	No. of Parking proposed	Required Parking : 176 Vehicle space Provided Parking : 183 Vehicle Space
19	Total Power requirement	600 kVA
20	Height	Approx. 30 m (S+9)

Water/ Waste water Details

The waste water generated (85 KLD) during operation phase will be treated in the STP of 100 KLD at site. Waste water will be treated up to tertiary level for reuses in the residential complex like toilet flushing and horticulture purposes. Rest of tertiary treated water shall be discharged into natural drain till municipal sewer is available.

Water/ Waste water Details

Fresh water	63 KLD
Flushing	31 KLD
Horticulture / Landscape and other low end uses	12 KLD
Total water requirement	106 KLD
Waste water	85 KLD
Source of water - Municipal water supply	
STP Capacity -100 KLD (~15 % extra for future expansion)	

The case was presented by the PP and their Architect in the 221st SEAC meeting dated 27/08/2015 wherein after deliberations, PP was asked to submit following information's:-

1. As submitted by the PP, the project site is 150 meters away from the HFL of the Kaliasot River. However, as per the direction of NGT, Bhopal, 233 meter area from the HFL of the river should be left as “No Construction Zone”, till the final decision of the concerned case from the NGT, Bhopal.
2. Commitment of concerned authority water supply should be submitted.
3. Commitment of concerned authority MSW disposal should be submitted.
4. Commitment of concerned authority sewage disposal if proposed in municipal drain.
5. Fire tender movement plan be revised and submitted so that fire tender can excess the building from both the sides.
6. Tree plantation scheme should be submitted with area justification viz –a- viz available parking space and financial allocations made for plantation.
7. Three meter space should be left along the periphery of the entire project area for peripheral plantation. Plantation should be done of 3-4 years old saplings.
8. Treated water storage tank should be constructed for its recycling.
9. End use of excess treated waste water be submitted.

The above case was placed before the committee as the PP has not submitted the reply of queries raised by the SEAC. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting

to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

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

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

The TOR was approved in the 139th SEAC meeting dated 29/08/2013 and the same was issued to the PP vide letter no. 734 dated 11/10/2013. The validity of TOR expired on 10/10/2015. PP vide their letter dated 06.08.15 has requested for TOR extension. After deliberations, the committee in its 239th meeting dated 04/11/2015 has recommends the case for extension in TOR for one year with validity up to 10/10/16 which was issued vide letter no. 2045 dated 05/12/2015.

PP vide letter no. 27/Env/dhm/07/2013 dated 08/11/2016 has submitted a request that the public hearing of the project has been conducted and final submission of EIA/EMP report of above project is in process which will be submitted soon and thus the TOR validity may be extended up to October, 2017 in accordance with the MoEF&CC OM dated 08/10/2014. The committee after perusal of the documents and deliberations recommends the case for further extension in TOR for one more year with validity up to 10/10/17 in accordance with the MoEF&CC OM dated 08/10/2014.

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

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

The TOR was approved in the 139th SEAC meeting dated 29/08/2013 and the same was issued to the PP vide letter no. 732 dated 11/10/2013. The validity of TOR expired on 10/10/2015. PP vide their letter dated 06.08.15 has requested for TOR extension. After deliberations, the committee in its 239th meeting dated 04/11/2015 has recommends the case for extension in TOR for one year with validity up to 10/10/16 which was issued vide letter no. 2041 dated 05/12/2015.

PP vide letter no. 27/Env/dhm/07/2013 dated 08/11/2016 has submitted a request that the public hearing of the project has been conducted and final submission of EIA/EMP report of above project is in process which will be submitted soon and thus the TOR validity may be extended up to October, 2017 in accordance with the MoEF&CC OM dated 08/10/2014. The committee after perusal of the documents and deliberations recommends the case for further extension in TOR for one more year with validity up to 10/10/17 in accordance with the MoEF&CC OM dated 08/10/2014.

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

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

The TOR was approved in the 139th SEAC meeting dated 29/08/2013 and the same was issued to the PP vide letter no. 736 dated 11/10/2013. The validity of TOR expired on 10/10/2015. PP vide their letter dated 06.08.15 has requested for TOR extension. After deliberations, the committee in its 239th meeting dated 04/11/2015 has recommends the case for extension in TOR for one year with validity up to 10/10/16 which was issued vide letter no. 2043 dated 05/12/2015.

PP vide letter no. 27/Env/dhm/07/2013 dated 08/11/2016 has submitted a request that the public hearing of the project has been conducted and final submission of EIA/EMP report of above project is in process which will be submitted soon and thus the TOR validity may be extended up to October, 2017 in accordance with the MoEF&CC OM dated 08/10/2014. The committee after perusal of the documents and deliberations recommends the case for further extension in TOR for one more year with validity up to 10/10/17 in accordance with the MoEF&CC OM dated 08/10/2014.

[K. P. Nyati]
Member

[Dr. U. R. Singh]
Member

[Dr. Mohini Saxena]
Member

[Manohar K. Joshi]
Member

[Dr. S. K. Iyer]
Member

[Dr. R. B. Lal]
Chairman