The meeting conducted on 13th June 2012 was presided by Shri S.C. Jain, Chairman. Following members attended the meeting-

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

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

1. **Discussion on Construction / township projects:** It was observed by the committee that in many construction / township projects the approvals on lay-out is granted by the Town & Country Planning Department based on the prevailing guidelines without considering the environmental issues. Hence committee decided that TNCP department may be requested to forward a copy of all Master Plans before these are finalized so that these may be discussed in depth and suggestions may be provided by the SEIAA / SEAC. A letter in this context may be written to SEIAA.
2. **Consideration of the Projects**
   08 cases were invited to make presentation before the SEAC.
3. **Field Visit:** Committee has decided to visit the site of Case no. 229/2008, 230/2008 and 477/2009. All these projects are proposed in Indore. These have been deferred by SEIAA as now EIA is required in all these township projects as proposed plot area and /or proposed total built-up area in these projects is more than the thresh hold limits prescribed in the Schedule of EIA notification. Additional TOR (if any) may be suggested after the visit. Visit shall be conducted during July 2012 before the next meeting.

Deliberations:

1. Case no. 690/2012 - Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – *Sip (Medium) Link Project* For –ToR

	Sip Weir	*Kaldev Weir*	*Ghora Pachad Weir*	*Total*
Catchment Area (Sq.K,.)	*96.5*	*5.5*	*21.0*	*123.0*
Gross Storage Capacity(Mcum)	*1.743*	*0.329*	*0.112*	*2.814*
Live Storage Capacity	*0.623*	*0.112*	*0.063*	*0.798*
Cultivable Command Area (Ha.)	*6100 Ha. (within the existing command of Kolar Project)*			

at Forest Compartment number 225 (Main Sip weir) Village – Jamli, Tehsil – Icchawar, Distt. – Sehore (M.P.) **Env. Consultant – Not Disclosed.**

The project pertains to Item No. 1(c) category 'A' of the EIA Notification schedule, as the CCA in the project is more than 10,000 Ha. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The case was presented before the committee by the PP and his consultant, which reveals following:

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

The project was discussed earlier in the 94th meeting of SEAC dated 07/05/2012. Committee observed that the project pertains to the augmentation of existing Kolar Dam. It was reported that the CCA of Kolar dam is 35000 Ha. an addition of 6100 Ha has been proposed through construction of Main Sip Weir and augmenting the capacity . It was observed by the committee that the existing Kolar project by virtue of its CCA (more than 10,000 Ha with additional submergence of 40.163 Ha) falls under category 'A' as per EIA notification. Hence it was decided by the committee to return the case to SEIAA for further necessary action in the matter. WRD in response of the above decision of the committee submitted a request through SEIAA for reconsideration of the project for prior EC on the following grounds:

- The Kolar Reservoir since its construction has attained its FTL rarely as a result of which intended command area does not get water for irrigation, year-wise data for the above was also provided by the department.
- Average annual storage in Kolar Reservoir is only 180 MCM against the designed storage capacity of 265 MCM i.e. about 70%. Presently the 61 MCM is being supplied as drinking water to the Bhopal city every year. The canal network completed so far serves irrigation in 35040 ha. of CCA.
- Diversion of rain water from Sip Valley to the Kolar Reservoir is proposed in present Sip Kolar Link Project.
- It was submitted by WRD that no additional storage or additional irrigation is proposed through execution of this project. It was further submitted that the area indicated as 6100 ha. in the application form-1 is merely indicative in equivalent terms for irrigation from the quantity of rain water that would be transferred from Sip seasonal nalla to the Kolar Reservoir.
- Thus the WRD claims that by supplementing water in Kolar project by Sip Kolar Link Project they are not expanding, modernizing or altering the Kolar Project in any way.
- Further, WRD has stated that the project CWC has processed the project as an independent medium project for consideration in the next TAC meeting of the Ministry of Water Resources, GoI.
- In view of above the project proponent has requested to consider the case for further action treating it as category 'B' project.

After examining the facts submitted by the PP committee found that the project pertains to augmentation of water storage in the existing Kolar project and it can not be treated as independent project. As the existing Kolar project falls under category 'A' any stipulation, which may or may not cause alterations in the existing dam shall be treated a category 'A' even if any amendment is required in the existing EC of Kolar project. Hence committee suggested the proponent to apply to MoEF, New Delhi for issue of new / amended prior EC for proposed execution.

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

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Member SEAC	**Member SEAC**	**Member Secretary**

Area – 4450 ha., at Village – Ghogra, Tehsil – Nasrulaganj, Distt. – Sehore (M.P.) **For – ToR.**

Env. Consultant – Not Disclosed.

The project pertains to Item No. 1(c) category 'B' of the EIA Notification schedule, as the CCA in the project is less than 10,000 Ha. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The project was earlier presented before the committee and it was observed by the committee that it was linked to a project which by virtue of its location was category 'A' project hence committee returned the project. Later PP submitted revised proposal as independent project dropping down the earlier linked project. The case was presented before the committee by the PP and his consultant, which reveals following:

Villages under Irrigation in Tehsil

By Constructing this project following 13 Villages of Nasrullaganj Tehsil, District – Sehore will be benefited - Ghogra, Hamidganj, Borkhera Khurd, Baibori, Bankot, Sukarwas, Basudev, Gilehari, Barnagar , Itawa Kalan, Ghutwani, Itarasi , Amalapani

Dam Profile: The proposed dam is an Earthen dam of total length of 2400 m(including W/W), with a maximum height of 20 m. The waste weir at left flank is 230 m in length, with Ogee shape is proposed to cater SPF of 1037.87 cumecs of anticipated flood discharge. Coordinates: Latitude $22^0$46'33'' and Longitude $77^0$04'04''

Other salient features of the project:

- Ghogra Medium Project is proposed on the river Ajnal, which is a tributary of river Narmada forming part of Narmada basin. This river is completely traversing in Madhya Pradesh.
- The Ghogra Medium Project amounting to Rs. 7219.00 lakhs comprises of Reservoir having live storage of 17.43 MCM.
- Main Canal takes-off from right flank of Ghogra Dam.
- Most of the culturable land is rain fed and owing to erratic rainfall very little area is covered under sustainable agriculture. This is further compounded due to lack of any irrigation project in the area.
- The irrigation requirement of the culturable area in the Ajnal sub basin can be brought under assured irrigation only by constructing water storage projects.
- The lack of any sizeable water storage scheme in the district has hindered the agricultural development in the area.
- Looking to above aspects, this medium water storage project, near Ghutwani & Ghogra village in Nasrullaganj Tehsil, Sehore District, is proposed for execution.
- The benefiaries areas covered by the proposed project include 13 villages of Nasrullaganj Tehsil of Sehore district.
- The storage shall provide one MCM water for drinking purpose.

Positive impacts envisaged from the project are as follows -

1. Irrigation Benefits:
   - Rabi Irrigation : 3950 Ha
   - Kharif Irrigation : 1350 Ha

2. Improvements in social Infrastructure

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- Improved irrigation facilities will significantly contribute to improvement in social infrastructures.

3. Employment Potential
   - The construction of various components of the project will require large no of skilled, semi skilled and un-skilled manpower for about 2 years.
4. Development of Fisheries in reservoirs to yield additional revenue.
5. Drinking water will be made available to the nearby villages.

Principal Levels of Ghogra Medium Project

River Bed Level (m)	324.50
Lowest Sill Level (m)	333.20
Full Tank Level (m)	341.00
Maximum Water Level (m)	342.50
Top of Bund Level (m)	344.50

Flood Studies- The Design Flood (SPF) of Project : is 1037.87 MCM. Flood Studies have been done using **Synthetic Unit Hydrograph** approach.

Reservoir Sedimentation Studies:

- Sediment load assessed based on annual deposition rate of 0.75 Acre ft /Sq.mile/year (0.000357mcm/sqkm/year).
- Sedimentation is considered for 100 yrs which comes out to be as under:

Name of the Project	Silt Load (in MCM)	LSL (in Meters)
Ghogra Medium Project	2.204	333.20

- Accordingly LSL is fixed, considering levels of command & silt load.

Submergence - The Submergence of the Ghogra Medium Project is as below:

- Total land coming under submergence : 396.67 ha

Details of land coming under submergence

- Forest land : 18.50 ha
- Government land : 184.17 ha
- Private land : 194.00 ha

Forest Clearance

- Stage I and Stage II forest clearance for 18.5 ha has been obtained from Ministry of Environment & Forest, Government of India vide letter no. 6-MPC039/2008-BHO/1394 dated 04-06-2009 and 6-MPC039/2008-BHO/1790 dated 21-09-2010 respectively.
- Rs. 377.96 lakhs has already been paid to the Forest Department Sehore.

Land Acquisition Cases

(S.C. Jain)	**(V. R. Khare)**	**(K.P. Nyati)**
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Member SEAC	**Member SEAC**	**Member Secretary**

- Compensation of private land amounting to Rs. 761.64 lakhs, after passing of award, has been paid to the cultivators.
- Rs. 2621.55 lakhs has been deposited with the Land Acquisition Officer, Nasrullaganj on account of Private Land Acquisition of Canal network and for the payment of additional package of submergence area.

It was reported that, Resettlement & rehabilitation of oustees is not required in the project. No village or population is reported under Submergence.

Irrigation from the Project

Name of Project	GCA (Ha)	CCA (Ha)	RABI (Ha)	KHARIF (Ha)	Annual Irrigation (Ha)
Ghogra Medium Project	5250	4450	3950	1350	5300

Distribution System

- **Canal System** – Agency has been fixed of canal system upto macro level (i.e. 40 ha chak). The work is under progress.

Length of Main Canal : 5.50 km
Length of Distributaries & Minors : 34.50 km

- Cropping pattern proposed for the project has been approved by the Agriculture Department of M.P.

Command Area Development

- The work of CAD will be taken-up after completion of the project. It includes construction of water courses and Field Channels upto 5 to 8 ha sub chaks.
- Accordingly CAD Plan will be prepared and be submitted soon.

Catchment Area Treatment Plan

- Catchment Area Treatment-Suitable measures will be taken up to decrease the rate of siltation by construction of dykes, gully traps, farm bunding, slope stabilization etc.
- The plan of Catchment Area Treatment shall be prepared and be submitted soon.

Muck Disposal Plan

- During the construction phase, a total 7.00 lakhs cum of muck will be generated from excavation of different appurtenant structures of Ghogra Medium Project.
- Excavated muck generated from the project will be utilized in construction of local roads and earthen dam of reservoirs
- Surplus quantities of muck will be disposed in suitably selected sites.
- The unutilized excavated material is proposed to be dumped at suitable locations identified specifically for this purpose.
- Muck disposal areas will be stabilized and reclaimed involving using engineering and biological measures.

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

- The two other linked projects which have been dropped by the department, if planned in future shall go to MoEF Delhi.

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

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Member SEAC **Member SEAC** **Member Secretary**

- Considering the worst case scenario all other dependability for future variations in the project including the possible linkages should also be considered while preparing EIA / EMP.
- Other TORs' as prescribed earlier for River Valley projects shall also be included.

3. Case no. 459/ 2009 M/s Budwa Minerals R/o Village- Budhwa, P.O. – Budhwa, Teh. Beohari, Distt. – Shahdol (M.P.) Sathni Ochre,White Clay & Laterite Mine of M/s Budwa Minerals, Village- Sathni, Tehsil - Beohari, Distt.- Shahdol (M.P.) Area-26.210 Ha, Capa.. - 1800 TPA **for –EIA Presentation.** ToR issued vide letter no. 993 dt. 09/11/09

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

Neither the PP nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. It is noted that this is the third consecutive chance when PP has not turned up for presentation of EIA / EMP, hence committee decided return the EIA report to SEIAA for further action.

4. Case no. 696/2012 Shri Ashok Chaterjee, Director, M/s Bharat Phosphates& Chemicals Pvt. Ltd., 210, Ratnamani Complex, 7/1, New Palasia, Indore(M.P.)– 452001 Manufacturing of Single Super Phosphate (SSP) / Granulated Single Super Phosphate (GSSP): 1000 TPD, Area of Project – 34851.29 Sq. Meter, at Khasra no. 455/2, Ind. Area, A.B. Road – Nimrani, Tehsil- Khasrawad, Distt. – Khargone (M.P.) For – ToR. **Env. Consultant – Not Disclosed.**

The project pertains to Item No. 5(a) category 'B' of the EIA Notification schedule, as production of Single Super Phosphate is proposed in the project. Hence this project has to be appraised by SEIAA / SEAC for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The features of the project were presented by the PP and his consultant, which reveals following:

Location – The industry is proposed at Khasra No. 455/2, Industrial Area, A.B. Road, Nimrani, Tehsil-Kasrawad, District-Khargone (M.P.). The site is located at Nimrani which is well connected to Indore and Pithampur. State Highway (SH-1) is about 20 km, SH-38 is about 2.6 km and AB road is about 219 m.

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

Total Plot area	34,851.29 m^2
Total Built up area	8,365 m^2
Installed capacity	1000 MT per day (3 shifts/day/330 days working)
Working per season	330 days at 24 hrs/day (3 shifts of 8 hrs each)
Capacity Utilization	Proposed utilization 60% from the first year
Raw material requirements	57.50% Rock phosphate and 36.50% Sulphuric acid and rest 6% water for dilution
Manpower	Total 100 employees
Power Requirement	1250 KVA
Project cost	25 crores

1. Copy of notification regarding approved industrial area from Industries Deptt. to be submitted.
2. Description of geographical features in 10 Km radius around the site to be incorporated in EIA.
3. Quantity & source of water for the project with permission from the competent authority.
4. Measures proposed to maintain zero discharge have to be detailed out.
5. Break-up of the products (SSP and GSSP) to be provided.
6. Copy of land allotment orders from the Industry Deptt. and the Registration.

5. Case No. 668/2012 Sh. Roopnarayan Shrivatva, M/s Kachhawaha Minerals Pvt. Ltd., 8, Anupam Nagar,Gwalior(M.P.) Badagaon Limestone & Dolomite Mine at Khasra No. 120,121,122,138,139,141,Capacity – 5000 TPA Lease Area- 11.31 ha. Village-Badagaon Tehsil Badwara, Distt. Katni (M.P.) For TOR

Env. Consultant - Env. Consultant – Creative Enviro Services, Bhopal (M.P.) 13/06/2012

Neither the PP nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. It is noted that this is the third consecutive chance when PP has not turned up for presentation, hence committee decided return the application to SEIAA for further action.

6. Case no. 229/2008 M/s Twenty first century Developers Pvt. Ltd., 6th Floor, Treasure Island - II, Tukoganj, Main Road, Distt. - Indore (M.P.) Residential Township project at Village Bijalpur,Tehsil & District - Indore- M.P. Total Plot area – 6,64,430 sq.m, Total Built up area – 5,80,000 sq.m, Green belt area – 1,99,329 sq.m. (30% of the total plot area) – **for TOR**

Env. Consultant – J.M. EnviroNet Pvt. Ltd., Gurgaon (Haryana)

The case was initially recommended by SEAC for grant of prior EC vide its 39th meeting dated 24/10/2009. The case was returned by SEIAA in its 33rd meeting dated 10/05/10 for want of reply from the PP on following queries: (i) No building permission has been submitted along with the application and (ii) The total fresh water demand is of 1727 KLD.

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Out of this, CGWA has permitted to draw 1052 KLD ground water. The case was sent back to SEIAA after obtaining the satisfactory response of proponent on above queries vide SEAC 63rd meeting dated 30/08/2010. Again the matter was referred back to SEAC by SEIAA vide its 65th meeting dated 26/08/2011, stating that the case may be reconsidered in accordance to the MoEF OM dated 25/05/2011. Accordingly the case was reconsidered and returned by the SEAC vide its 84th meeting dated 09/11/2011.

Now again the case has been referred back to SEAC vide SEIAA letter no. 156 dated 27/04/2012 for issue of TOR to carry out EIA / EMP as the land area as well as total built-up area is more than the threshold limits. The scoping was not mandatory when this case was appraised in SEAC/SEIAA as MoEF Notification dated 04/04/2011 & 25/01/2012 did not exist, nevertheless in view of the note of SEIAA the case was re-considered for appraisal. PP had submitted an EIA based on the standard TOR. Committee in this case decided to visit the site in view of following:

- The size of the project is considerably big and may require additional studies.
- The project was submitted in 2008 and by now it is expected that some development in the vicinity might have taken place, the same has to be addressed in the EIA/EMP study.

The visit of the sub-committee has been planned for third week of July just before the meeting of the July 2012 along with the visit of two similar housing projects (Case no. 230/2008 and 477/2011). Based on the findings of the visit, points suggested by the visiting members have to be incorporated in the EIA report and the same shall be than appraised by the SEAC before final recommendations.

7. Case no. 703/2012 M/s Opal Developers Shalimar house, Malviya Nagar, Rajbhawan Road-Bhopal-M.P. Residential project at **At Khasara No. ; 429,430/1,400/2,401/2, 431/1/2, 431/1/3, Bawdia Kalan, Tehsil- Huzur. Bhopal (M.P.)**

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

The project pertains to Item No. 8(a) category 'B' of the EIA Notification schedule, as total built-up area proposed in the project is more than 20,000 m^2. Hence this project has to be appraised by SEIAA / SEAC for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for appraisal. The presentation and submission made by the PP and his consultant reveals following:

Project Details:

SN	**Project components**	**Details**
1	Proposed Project	Residential Complex under the name of Opel Developers.
2	Location	429,430/1,400/2,401/2, 431/1/2, 431/1/3 Bawdia Kalan, Tehsil- Huzur, Dist Bhopal (MP)
3	Owner and developer of the land	Opel Developers
4	Plot Area	Total Land Area = 4.72 Acres
5	Proposed Built-up Area	Total Built Up Area = 50025.75 sq. mt
6	Landscaped Green Area	6011.32 sq mt sq mt
7.	Dwelling Units	Residential Building : Total Number of Flats : 456

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(A.P.Srivastava) **Member SEAC** | **(Dr Mohini Saxena)** **Member SEAC** | **(R.K. Jain)** **Member Secretary**

		Number of Blocks -09
8	Total Water requirement	310 KLD
9	Fresh water Requirement	206 KLD
10	Solid waste generated	1163 kg per day
11	Parking details	11345 sq mt for 355 no.
12	Total Power requirement	1550 KW
13	Back up Power provision	DG set of 45 KVA
14	Distance of fire station	08 KM at BHEL area
15	ROW	66 mt

Area Statement:

A.	Total Plot Area		4.72 Acre (19113.21Sqm.)
B.	Area proposed for road widening		897.09 Sq mt
C.	Net Plot Area		18216.12 Sqm.
D.	Area under open		1822.09 Sqm.
E.	Area under Services		418.99 Sqm.
F.	Max Permissible F.A.R.		1:2.5
G.	Max Permissible F.A.R. in sq mt - BX2.5X2 + C X2.5		50025.75Sqm.
H.	Amenities proposed		1622.08Sqm (10%)
	Club house plot area		458.21
	Club house Ground coverage		137.46Sqm (30%)
	Club house F.A.R.		458.0
L.	Dispensary Proposed 1&2 Floor Bult-up-Area		400Sqm
M	Primary School Proposed 1&2 Floor Built-up-Area		800Sqm
N	Max. Permissible Ground Coverage		5464.83Sqm
0	Proposed Area		
1	Proposed Ground Coverage		
Type	No of Block	Area of type floor	Total Area
A&B	4	475	1900
B&C	5	410.5	2052.50
Total ground coverage			3952.50
2	Proposed Stilt Area		
A&B	4	475	1900
Total Achieved FAR			**50022**

Land Use detail	Permissible	Proposed or achieved
Land Area	Not less than 2000 sq mt	18216.12 sq mt
Land Frontage	30 mt	49 mt

(S.C. Jain) **Chairman**

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

Ground Coverage	30%	Resi : 3952.50 Sq mt Club House : 137.46 Total : 4089.96 sq mt
Front Road Width	30 mt	66 mt (proposed NH-12)
Other three side MOS	6.00	9.00
FAR Additional FAR for road widening (as per rule 01 of MPBVR 1984) Total permissible FAR	2.50 = 45540.30 sq mt 897X2X2.5 = 4485.45 sq mt 50025.75 sq mt	50022 SQ.M
Parking		355 cars
Max height of the building	Stilt + 40.95 mtr	Stilt + 40.00 mtr

Water Demand (Calculations):

Water Demand Calculations for Residential
Occupancy Load = 5 Person / flat
Daily Water Demand = 135 lit/cap/day
Water Demand Calculations for Commercial
Occupancy Load = 1Person / 10 sqm
Daily Water Demand = 45 lit/cap/day
Water Demand Calculations for Visitors
Occupancy Load = 1 Person / 200 Sq.ft
Daily Water Demand = 15 lit/cap/day
Water Demand Calculations for Club House
Occupancy Load = 1 Person / 200Sq.ft
Daily Water Demand = 45lit/cap/day
Water Demand Calculations for Landscape @ 5 Litres per Sq.m.

Water Balance:

S N	Description	Total Population	Water Requirement				Total Water	% flow to Sewer				
			Flushing		Domestic			Flushing		Domestic		Total waste water
			A		B		A+B					
			LPCD	KLPD	LPCD	KLPD	KLPD	%	KLPD	%	KLPD	KLPD
1.	Flats (456)	2280	45	103	90	205	308	100	103	85	174	277
2	Club	50	07	0.35	08	0.40	0.75	100	0.35	85	0.34	0.69
4	School	100	07	0.7	08	0.80	1.5	100	0.7	85	0.68	1.38
	Total						310.25 = 310		104.05 = 104		175.02 = 175	279.07 = 279

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Member SEAC **Member SEAC** **Member Secretary**

STP Capacity: 300 KLD

- It is based on aerobic suspended growth process and used in the secondary treatment effluent/sewage treatment plant
- The equipment consists of specially designed media, which facilitates attachment of fixed film growth of micro organism. The media is supported by channels. Diffusers are provided for efficient oxygen transfer

Treatment Scheme

1. Screening of effluent and flow equalization in Equalization tank
2. Aerobic Biological Treatment in SAFF Tank
3. Secondary Tube Settler
4. Disinfections by UV Sterilizer
5. Filtration through MGF and polishing in ACF
6. Sludge digestion in sludge holding tank and disposal through filter press.

Process Description

- The waste water after passing through screen chamber will be collected in collection cum equalization tank. Air shall be provided in this tank to keep the suspended solids in suspension and to avoid any potential odor problem.
- From equalization tank effluent will be pumped to SAFF tank for biological treatment. The SAFF tank consists of PVC fill media, which shall facilitate the attached fixed film growth of microorganism. The aerobic environment in the aeration tank shall be achieved by the use of fine bubble diffused aeration, which also served to maintain the liquor in completely mixed regime.
- The mixed liquor from the SAFF tank overflows into a hopper bottom clarifier, where the sludge settles down and clear water overflows into clarified water tank (CWT)
- The sludge settled in the clarifier will be stored in aerobic sludge holding tank. From here the sludge shall be disposed off through filter press in the form of cakes.
- Some amount of thin sludge from sludge holding tank (SHT) is re-circulated through recirculation pumps into SAFF tank to achieve beetr efficiency and less wastages.
- Effluent from CWT will be pumped to MGF for removal of suspended solids and turbidity. This filter shall be provided with sand and anthracite as filtering media. After MGF, the effluent will be passed through the ACF for further polishing. After UV treatment, the treated water shall be stored in treated water tank (TWT). After TWT, the treated water shall be fit for flushing/irrigation purposes.

Solid Waste Management

S.N.	Description	Occupancy	Kg per Capita per day	Total in Kg per day
(i)	Residents	2280	@0.55	1140
(ii)	Staff	-	@0.25	-
(iii)	Visitors + School	150	@ 0.15	22.5
	Total Solid Waste Generation	-	-	1163

(S.C. Jain) **Chairman**

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During Construction Phase

S.N	Likely Impact	Management/ Mitigative Measures
A)	During Construction Phase	
1 2.	Solid waste like bricks, concrete, MS rods, tiles, wood etc. is expected to be generated periodically. Soil will be excavated periodically from earth work in phased manner.	1. Construction yards are proposed for storage of construction materials. 2. Construction waste is proposed to be collected and disposed off through vendors. 3. Excavated top soil will be stored in temporary constructed soil bank and will be reused for landscaping 4. Remaining soil shall be utilized for refilling / road work / raising of site level at locations / selling to outside vendors for construction of roads etc. 5. There shall be "Refuse Containers" at site for the management of domestic waste generated by the construction laborers and these containers shall be emptied at least once daily.

During Operation Phase

SN	Description of Modules	Treatment & Disposal of Total Solid Waste
1	General Garbage	1. There shall be segregation at source 2. Organic/Biodegradable And non recyclable waste will be disposed off at trenching site of GMC. 3. Inorganic waste like plastic, packing material, metal shall be sold to recyclers/vendors for recycling.
2	STP Sludge	STP sludge shall be in the form of drying beds & will be taken through filter press & used for gardening as per requirement.

Environmental Management Plan

Air Pollution Control

- The source of air pollution in the proposed project will be vehicular movement and DG sets.
- To combat air pollution, development of green belt has been proposed.
- Due to circular pattern of road development, concentration of vehicles & vehicular emissions at a particular point would be lesser.
- DG sets with adequate stack height will be provided as per CPCB guidelines.

Noise Environment

- DG set will have inbuilt acoustic enclosure. DG set rooms shall also be made sound proof.
- Regular preventive maintenance of machinery.
- Provision of green areas and broad leaf tree plantation.
- Use of horn will be restricted.

Energy Conservation proposed in the project:

1. CFL based lighting will be done in the common areas, landscape areas, signage, entry gates and boundary walls etc.

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2. Roof, walls & fenestration products shall comply either the maximum U-Factor or minimum Insulation R- Values.
3. DG sets shall be on auto cut and auto start controlled mechanism.
4. Variable Frequency Drives (VFD) have been proposed for the Pumps and Blowers.
5. It is proposed to use Cellular Light Weight Concrete (CLC), which uses fly ash for manufacturing.
6. All the roofs are proposed to be insulated to minimize heat gain with 50 mm expanded polystyrene or equivalent insulation.
7. Efficient plumbing equipments will further help to reduce energy consumption.
8. Norms of the Energy Conservation Building Code 2005 would be followed.

Capital Cost for EMP

S.No.	Parameters	Cost (Rs. in Lac)
I.	**Water Pollution Control**	
	Sewage Treatment Plant	60
	Rain Water Harvesting System	07
	TOTAL	**67**
II.	**Solid Waste Management**	
	Solid Waste Collection Bins Disposal system	06
III.	**Green Belt**	02
	GRAND TOTAL	**75**

Recurring Cost of EMP

S.No.	Particulars	Approx.Annual Recurring Cost (Rs. in Lac)
I.	STP	10.00
II.	Solid Waste Management	6.00
III.	Environmental Monitoring	2.50
IV.	Green Belt	0.50
	TOTAL	**19.00**

Proposed Fire Safety Measures

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

<u>During Construction Phase:</u>

- Fire Protection equipments like Sand Buckets and extinguishers will be installed at suitable place.

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During Operation Phase:

- Static Tank (underground) and overhead tank for fire.
- Landing valves with hose reels within the complex.
- External hydrant all around the building & yard .
- Automatic sprinkle system provided in building (1 sprinkler/12 m)
- Pumping arrangement system- Riser system with pressure pump, auto operation with pressure switch.
- Staircases/lifts pressurization/ smoke extraction system.

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

1. The sewage / MSW generated from the existing project of the PP adjacent the proposed project site should be taken care along with the sewage / MSW expected from this project.
2. Green belt may be taken up in two rows.
3. Copy of Partnership deed.
4. Notarized copy of approved lay out.
5. NOC from fire fighting department along with the distance of the site from fire-station to be furnished.
6. ROW of the approach road to be reported.

8. Case no. 704/2012 Dr. Mrs. Neeta Dang, Director, M/s Impress Chemicals Pvt. Ltd., RH-24, Scheme No. 54, Vijay Nagar, Indore – (M.P.) – 452010 - Proposed Drug Manufacturing Unit at Plot No.332 Sector -1, Industrial Area, Pithampur, Tehsil – Dhar, Distt. – Dhar (M.P.) **Env. Consultant – Anaconlabs, Nagpur (M.S.)**

The project pertains to Item No. 5(f) category 'B' of the EIA Notification schedule, as production of bulk drug is proposed in a notified Industrial Area. Hence this project has to be appraised by SEIAA / SEAC for grant of prior EC. The application and relevant documents were forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA /EMP. The presentation and the submission made by the PP and his consultant reveals following:

Location

- Village: Plot No. 332, Notified Pithampur Industrial Growth Centre, Pithampur village
- Tehsil & District : Dhar (M.P)

Products proposed

SN	Name of Product	Proposed Capacity
1	Fluconazole	1 TPM
2	Tenofovir Disoproxil Fumarate	1 TPM
3	Mefanamic Acid	10 TPM
4	Triprolidine Hydrochloride	1.5 TPM
5	Glucoseamine HCL + Sulphate	5 TPM
6	Glemipride	1 TPM

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Particulars	Description
Cost of the project	Rs. 10 crores
Total Proposed area	0.23 acres (926 m^2)
Water requirement	2 m^3/day, Source - Audyogik Kendra Vikas Nigam (AKVN), Waste Water Generation-Fully recycled in process, Mode of disposal - Zero Discharge
Power requirement	48 KW , Source - Madhya Pradesh Electricity Board (MPSEB), DG 60 KVA is proposed
Manpower requirement	50

Feature	Details
Village	Pithampur (1.0 km, SW)
Tehsil & District	Dhar
Geographical location	Latitude 22°37'06.05"N , Latitude 75°41'18.96"E
Elevation	560 m
Nearest Railway Station	Mhow (15 Km, SE)
Present Land-use	Notified Industrial Area
Nearest Airport	Indore (35 Km, NE)
Nearest Highway	NH-59 (6km, N)
Nearest Town	Pithampur (1.0 km, SW)
Nearest Water Body	Chambal (06 kms.)
District headquarters	Dhar (38 km, W)
Seismic Zone	Zone II as per the 2002 Bureau of Indian Standards (BIS)
Forest land	No forest reported with in 10 km radius of around the site.
Notified Eco – sensitive area	None in 15 km radius

Raw Materials

Raw Material	Qty/month	Raw Material	Qty/month
1.3 DFB	50 kg	Hyflo Supercel	44 kg
MDC	75 lit	Sodium hydroxide Lye (50%w/w)	430 lit
Alu. Chloride	63.5 kg	Sodium Sulphate (Exsiccated)	279 kg
C.A.C.	55 kg	Sodium Chloride	1497 kg
Ice	500kg	IPA	5000 kg

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HCl	20 kg	Methyl Acetone Phenone	250 kg
CAN	300 lit	Para-formaldehyde	420 kg
4ATE	35 kg	Toulene	4200 kg
Sodium Nitrate	13 kg	N-Butyl Lithium	200 kg
Ammonia Water	500 lit	2 Bromo Pyridine	250 kg
9[2-Phosphono Methoxy)Propyl]adenine	1 kg	HCl	1000 kg
Cyclophe	2.22 lit	Chitin	8000 kg
N-Methyl-pyrrolidone	3.36 lit	HCL	1000 kg
TEA	0.1 kg	Methanol	50 kg
Chloro methyl isopropyl carbonate	2.27	Toluene	1000 kg
Ethyl Acetate	3.54 lit	EPO	1000 kg
Cyclohexane	0.91 lit	Isocyanides	100 kg
IPA	3.86 lit	Hexane	300 kg
Fumeric Acid	0.36 kg	DIPE	300 kg
O-Chloro Benzoic Acid	1045 kg	MDC	300 kg
Potassium Carbonate	498 kg	CS Acid	50 kg
Isopropyl Alcohol (IPA)	13230 lit	Ethyl Acetate	20 kg
2,3-Dimethyl Aniline (O-Xylidine)	800 kg	Liquid NH3	1000 kg
Cupric Acetate Monohydrate, Tech	150 kg	Acetone	500 kg
Concentrated HCl	900 lit	TMCHI	100 kg
Methanol	480 lit	K2CO3	50 kg
Activated Carbon	180 kg		

Air Pollution Control Measures:

- Fugitive emission from the solvent storage area will be controlled by effective ventilation system.
- Storage and transport of material will be in a closed system and transport of solvent shall be as per safety norms.
- All internal roads will be black topped / concrete
- Greenbelt of 33% (0.08 acres/306 sq m) along the plant boundary and along the internal roads
- Ambient air quality monitoring in and around the plant area
- All solvent transfer will be in closed pipeline hence there will be no open handling leading to fugitive emission and it will prevent odour nuisance

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- All reactor vents are with double stage vent condenser which prevents fugitive emission into atmosphere and prevents odour nuisance
- All plants are cl0sed ventilated plants so it prevents odour nuisance
- All solvent having low flash points are provided with Nitrogen blanketing which prevents fugitive emissions of solvent vapours which prevents odour nuisance
- Provision of scrubbing system for reactor vents and stripping of effluent streams before treatment will result into effective odour control in the area
- Provision of greenbelt around the premier of the industry also helps in controlling fugitive emissions

Water Pollution Control Measures

- In order to conserve water and minimize the makeup water requirement, it is proposed to adopt re-circulating systems for equipment cooling.
- In re-circulating system same water re-circulates again and again and some make up water is added for evaporation losses.
- The industrial effluent of 0.2 KL/day shall be treated in ETP then the RO and finally treated water is recycled in the process.
- It is proposed to have an effluent treatment plant of 10 KL/day and a storage of 20 KL effluent in a fibre glass lined tank, where caustic & acidic effluents will be collected and allowed to neutralize.
- It is proposed to fully utilize the treated water in the process. Zero discharge concept will be implemented.
- The outflow from toilets of the plant buildings shall be led to various septic tanks in respective areas through separate drains. The run-off from them will be connected to soak pits/ dispersion trenches.
- A well planned storm water drainage network will be developed within the plant site
- Rainwater harvesting measures will be implemented
- Periodic monitoring of water for its quality.

Solvent Management & Recovery Plan

- Waste-minimization, recycle/reuse/recover techniques
- Spent solvents are proposed for solvent recovery through in-house solvent recovery unit.
- Reactor will be connected to chilled brine condenser system
- Reactor and solvent handling pump will have mechanical seals to prevent leakages.
- The condensers will be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
- Solvents will be stored in a separate space specified with all safety measures.
- Proper earthing will be provided in all the electrical equipment wherever solvent handling is done.
- Entire plant where solvents are used will be flame proof. The solvent storage tanks will be provided with breather valve to prevent losses.

Noise Level

- Noise from compressor, fans, centrifugal pumps, electrical motors etc. will be kept in control so that the ambient noise level shall not exceed 75 dB(A) during day time & 70 dB(A) during night time.

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- The insulation provided for prevention of loss of heat and personnel safety will also act as noise reducers;
- Layouts, equipment foundations and structures will be designed keeping the requirement of noise abatement in view;
- Necessary enclosures will also be provided on the working platforms/areas to provide local protection in high noise level areas;
- All equipment will be kept in a well maintained condition with proper lubrication and housekeeping to avoid excessive noise generation;
- Noise pollution control measures will be provided in respective departments by way of providing silencers, soundproof cubicles/ covers and proper selection of less noise machinery.
- Development of greenbelt to attenuate noise levels, and Personal protection equipment to employees.

Solid Waste & its proposed management

Sr.No.	Name of Waste	Category	Quantity	Mode of Disposal
1	Used oil / Waste oil	5.1 / 5.2	Nil	—
2	Process Waste	28.1	5 kg per month	Disposal to TSDF
3	Spent Carbon	28.2	3 kg per month	Disposal to TSDF
4	Date expired specification product	28.3 / 28.4	nil	—
5	Spent Solvent / Spent ML	28.5 / 20.2	5 tons per month	Disposal to TSDF or to authorized recyclers
6	Discarded Containers / Barrels / Bags / Liners	33.3	20-30	Decontamination and sale
7	ETP Sludge	34.3	300 kg per month	Disposal to TSDF
8	Salts from multi effect evaporators	36.2	nil	—
9	Distillation Residue	20.3 /36.4	nil	—
10	Spent Catalyst	35.2	nil	—
11	Chemical residue from decontamination of chemical drums	33.1	nil	—
12	Spent resin	34.2	nil	—
13	Filter media and molecular sieve	35.1	3 meter square per month	Disposal to TSDF

- The hazardous waste likely to be generated from all possible sources is proposed to be collected and transported to (CHW-TSDF) waste disposal site.
- The solid waste is proposed to be collected in synthetic carboys and delivered to Ramky – solid waste handling facility, formal membership will be taken after grant of consent to operate

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- All hazardous chemicals/raw materials is proposed to be handled as per the relevant rules "Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989" (MSIHC Rules, 1989, as amended) and Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date.

Proposed Pollution Control Measures

Air pollution Control System, Wastewater Treatment System, Solid Waste Management and Tree Plantation has been proposed along with installation of Rain water harvesting project.

After deliberations committee has suggested inclusion of following points in the TOR

1. An inventory of all the proposed products to be developed which should clearly reflect that which production process would involve – highest level of water pollution, air pollution and hazardous waste generation.
2. MSDS for all the raw materials, intermediate and finished products to be furnished.
3. Toxic characteristics of each of the materials being or planned to be handled in the unit to be included.
4. Criteria for selection of ETP design and spec to be furnished. With justification for all the parameters selected for ETP.
5. Recalculate the sewage generation from all the utilities of the unit.
6. Justify the proposed recycling of treated waste water through exact water balance.
7. On-site / Off-site Emergency Plans to be submitted along with the Risk & Hazards Management Plans.
8. Material balance for the raw materials to be furnished.
9. Potential water polluting streams expected from the processes should be identified. The integration of these streams to be planned based on their characteristics before these are subjected to ETP, so as to achieve optimum treatment parameters. The scheme should be furnished in the EIA / EMP in detail.
10. Copy of notification regarding declaration of Industrial Area.
11. Baseline air quality should cover the monitoring of VOCs'.
12. Solvent recovery should be planned to ensure at least 95% recovery.

Discussion on pending cases

1. Case No. 230/2008 – Twenty first Century Developers (P) Ltd. 6th Floor, Treasure Island - II, Tukoganj, Main Road, Indore (M.P) Residential Township Project at Village Bijalpur, Indore

The case was dealt & recommended by SEAC in its 39th meeting dated 24/10/2010, whereby scoping was not mandatory then as MoEF Notification dated 04/04/2011 & 25/01/2012 did not exist. It was returned by SEIAA suggesting to reconsider the case in accordance to the MoEF O.M. dated 24/05/2011 in context to CEPI. The project pertains to construction of township with total plot area of about 42 ha and total built up area of 2, 80,000 m2.

SEIAA has suggested to issue TOR in similar other cases to carry out EIA /EMP as per the

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provisions of the notifications and relevant office memorandums. Hence this case may also be considered in line with the similar other case of the same proponent (Case no. 229/2008) after the visit of sub-committee.

The visit of the sub-committee has been planned for third week just before the meeting of the July 2012 along with the visit of two similar housing projects (Case no. 229/2008 and 477/2011). Based on the findings of the visit, points suggested by the visiting members have to be incorporated in the EIA report and the same shall be than appraised by the SEAC before final recommendations.

2. Case No. 187/2008 - Mr. Ashim Gandhi, Village-Lasudia Parmer, tehsil: Sanwer, Dist- Indore Project: *Parsvnath SEZ Ltd. Indore, Plot Area-309788 Sq.meter, Built Up Area- 30857 sq. meter.* (**SEIAA letter No. 678 dated 03/11/2011) –** The case was dealt in the 15th meeting dated 14/11/08 whereby PP was asked to submit reply to the queries. PP has not submitted complete reply to the requisite queries despite of reminder. The case placed before the Committee in the 84th meeting dated 09/11/2011 whereby it was decided to give a last reminder to the PP for submission of reply to the said queries and if reply is not filed by December 2011 the case may be send back to SEIAA for delisting. As the time limit has already finished the case is recommended for closure assuming that the PP is not interested to continue with the project.

Meeting ended with thanks to the Chair.

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