STATE EXPERT APPRAISAL COMMITTEE **22th May 2017**
MINUTES OF 290th MEETING

The 290th meeting of the State Expert Appraisal Committee (SEAC) was held on 22th May, 2017 under the Chairmanship of Dr. R.B. Lal for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohini Saxena, Member.
2. Shri. K. P. Nyati, Member
3. Shri Manohar K. Joshi, Member.
4. Shri R. Maheshwari, Member.
5. Shri A. A. Mishra, Secretary

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

1. Case No. - 5523/2017 Govt. Bundelkhand Medical College, Shivaji Ward, Tili Road, Sagar, (M.P.) Prior Environment Clearance for Common Bio Medical Waste Treatment Facility through 100 kg per hour rotary kiln based bio medical incineration project at village Habsili, Distt. - Sagar, (M.P.) Cat. 7(da) Project.

The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category "B" Projects of activity 7 (da) as per EIA Notification dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under Bio- Medical Waste Treatment Facilities. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Earlier this case was Scheduled in 288th SEAC meeting dated-30/03/2017 wherein it was observed that: 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 of SEAC.

The case was again scheduled in the 289th SEAC meeting dated 28/04/2017 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. Earlier PP was also absent in the 288th SEAC meeting dated 30/03/2017. Committee after deliberations 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.

Salient Features

Site Address	Khasara No. -166 Village- Habsili, Tehsil – Sagar, Distt.- Sagar(MP)
Proposed project	Bio Medical Waste Treatment Facility with the following : 1. Rotary Kiln – 01- 100 kg per hr 2. Autoclave - 02 - 0.25 m^3 3. Shredder - 01 - 50 kg per hour 4. Effluent Treatment Plant - 01 - 6 KLD
Existing project	CBWTF facility with autoclave, shredder , etc
Cost of Project	Rs 2.05 Crore
Net fresh Water Requirement	5 KLD
Power Requirement	80 HP which will be sourced through Madhya Pradesh Vidyut Vitaran Company Ltd .
Capital Cost for Environmental measures (proposed)	25 Lacs
Recurring cost for environmental management etc (Proposed)	Estimate will be given in EIA report, which will include O&M cost of CSEME, EQMS, post environmental monitoring cost, plantation cost etc.
Existing area of plantation	Nil
Alternative Source of Power	DG set of 25 KVA
Land acquired	6070 sq mt (1.5 Acres)
Proposed area for plantation	Total 33% area i.e. 2000 sq mt shall be dedicated for the green belt. Green belt will be developed according to CPCB/PCB guidelines

Environment Siting of the project

Particulars	Details
Co-ordinate	23°50'39.63“ N - 78°40' 22.61“ E 23°50'38.07“ N - 78°40' 23.59“ E 23°50‘41.25“ N - 78°40' 25.88“ E 23°50‘39.84“ N - 78°40' 26.78“ E
Height above mean sea level	516 mRL
Nearest Town	Sagar - 6.30 km
Nearest Railway Station/Town	Ratona – 1.0 km

Nearest Airport	Bhopal – 146 km
Nearest Highway/Road	Khurai-Sagar SH-14 -1.15 km - N
Ecological Sensitive Zone	None in 10 km radius
Reserve Forest	Barkhera R.F. - 3.50 km -N Pagara R.F. - 3.80 km - NE Lalakpatan R.F. - 5.60 km –NW
Nearest Village	Habsili – 0.65 km - NW
Nearest River/ Nalla	Karawan Nadi-1.50 km - W Molali Nala-2.75 km -N Local Village pond- 1.75 km -NE
Surrounding Features	East- Open Mixed Jungle West- Open Mixed Jungle North-Open Land South- Open Mixed Jungle

Land Use Breakup of the Plant

Land use Break-Up for proposed unit	
Particulars	**Total Area (Sq. mt.)**
Plant and Machineries	348
Office and administration	100
Waste storage area	67
Fuel storage area	66
Road	100
Green belt area	2000
	2681 Sq.mt.
Open Land	3389
Total Land	6070 Sq.mt.

The case was presented by the PP and their consultant wherein committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs:

a. DFO certificate regarding distances from National Parks/ Sanctuaries and Forest area in the format prescribed by MP, SEIAA should be submitted with the EIA report.

b. Justify in EIA report, how unit will remain zero discharge.
c. Disposal plan of autoclaved material should be discussed in the EIA report.
d. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.
e. Facility should be complying all the norms prescribed in the Bio-Medical Waste Management Rules, 2016 and Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities published by CPCB for management and disposal of Bio medical waste.
f. Wastes such as animal Carcass should not be handled and disposed at this site.
g. Storm Water Management Plan should be discussed in the EIA report.

2. **Case No. – 5546/2017 Executive Engineer, Water Rsource Division, Near Harsud Naka. Civil Line, Khandwa, Distt.,- Khandwa (M.P.)** *Prior Environment Clearance for BHAM (Rajgarh) Medium Project at Vill. – Semlya, Rajgarh Tehsil. - Khandwa, Distt. – Khandwa (M.P.)* ***Cat. 1(c) River Valley and Hydroelectric Projects.*** **FoR – ToR.** Env. Consultant- Not disclosed.

This is 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 application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

The case was presented by the PP wherein it was informed by them that have already collected the data. Committee after deliberations decided that monsoon data should also be collect for this project and recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs:

1. Since project involves 101 ha forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
2. Study of alternative sites considered should be discussed in the EIA report.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. Being pipeline project, precautions proposed to avoid seepage/leakage etc should be discussed in the EIA report.
5. Cost benefit analysis including environmental factors should be given in the EIA report.

6. Green belt plan and catchment area treatment plan be provided in the EIA report.

7. Inventory of existing trees and their management should be provided in the EIA report.

8. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.

9. The potential risks and threats associated with the dam when it reaches FTL to the nearby villages should be discussed in the EIA.

3. **Case No. – 2805/2015 Shri S.C. Mathur, Vice President, M/s Vista Organics (P) Ltd., Plot No. 06, New Industrial Area Phase-II Mandideep, District- Raisen (M.P.)-462046** Prior E.C. for proposed Manufacturing of bulk drugs Vitamins and Intermediate) expansion of existing unit at Plot No. – 06, New Industrial Area- Phase-II Mandideep, District- Raisen (M.P.) **FoR – Revised ToR.** Env. Consultant- Not disclosed.

This is a case of Manufacturing of bulk drugs Vitamins and Intermediate. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Plot No. 06, New Industrial Area Phase-II Mandideep, District- Raisen. The project requires prior EC for expansion of existing unit before commencement of any activity at site.

Products and capacities

The Company proposes to Manufacture API and Fine Chemicals with Existing Capacity of 665MT/Annum.

The finished products with their capacities:

Niacin	**:** 75 MT/yr,
Iso Nicotinic acid	**:** 150 MT/yr,
Alpha Picolinic acid	**:** 25 MT/yr,
Zinc picolinate	**:** 25 MT/yr,
Chromium Picolinate	**:** 5 MT/yr,

Chromium Poly Nicotinate **:** 5 MT/yr, **Methyl**

Nicotinate **:** 10 MT/yr,

Niacinamide **:** 150 MT/yr,

Isoniazid **:**75 MT/yr,

Pyrazinamide **:** 90 MT/yr,

Di picolinic acid : 25 MT/yr, **2,3&3,5**

Lutidine **:** 30 MT/yr.

Requirement of land, raw material, water, power, fuel with source of supply (Quantitative)

Total land: 22,296.73 Sq. mt.

S.No.	Particulars	Land Area (m^2)
1.	Constructed Area	4514.81
2.	Plant production area	264.15
3.	Utility area	264.15
	Warehouse	
4.	RM Storage	90.00
5.	Other storage	1471.00
6.	Admin & other	2339.11
	Total Area of Plot	**22296.73**

Raw Materials:

From the domestic market and certain quantity will be import from any other country.

Source of Water Supply and water requirement:

The fresh water already procuring from MPAKVN (Madhya Pradesh Audyogik Kendra Vikas Nigam). The water will be used from the existing source. Total water requirement is **23.0 KLD.**

Description	Water Requirement (Lit.)	Evaporation Loss (Lit.)	Waste Water Generation (Lit.)	Water Recycled (Lit.)	Waste water Discharge (Lit.)

Process	5000	500	4500	2000	2500
Utility Boiler/ Cooling Tower/ Scrubber/ Purified Water Generation.	15000	4000	8000	7000	1000
Washing (House Keeping)	500	50	450	Nil	450
QC & R &D	1000	100	900	Nil	900
Domestic Use	2500	Nil	1500	Nil	1500
Gardening	3000	--	--	--	--
Total	**23000**	**4650**	**14350**	**9000**	**5350**
Note: 1. Top up fresh water used 14000 Lit./ day or 14.0 KLD 2. Waste water 5350 Lit treated at ETP then through softener plant recycled in cooling tower, use for cleaning purpose.					

GREEN BELT DEVELOPMENT/ PLANTATION

Green belt development in and around the project site helps in to attenuate the pollution level. About 33% land area of project will be developed as green belt and it will be maintained in future also. Green belt will be developed as per Central Pollution Control Board (CPCB) Norms. The Avenue plantation will give priority to native species, and the periphery will be devoted to generation of green belt area.

- Green belt development in and around the project site will help in to attenuate the pollution level.
- Native species will be given priority for Avenue plantation.
- The periphery will be devoted to generation of green belt area.

The case was scheduled for the approval of proposed TOR in the 198th SEAC meeting dated 04/06/2015. During deliberation and as per the information submitted by the PP in the application, it was noticed that this unit has already undergone an expansion in the year 2008 and 2014 respectively without obtaining EC which constitutes the violation of EIA Notification, 2006 and thus credible action has to be initiated as per the provisions of OM dated 12/12/2012 issued by MoEF&CC, Delhi. In the light of above facts, the case was sent back to SEIAA for onward necessary action.

The case was discussed in 217th SEIAA meeting wherein it was decided to verify after a site visit whether PP has already made expansion in the plant by way of installing machinery etc. Once the validation is done, SEAC may send the recommendation to SEIAA for credible action.

As decided Shri K. P. Nyati, Member SEAC visited the site on 27/08/2015. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer, Dr. Avinash Karera, Chief Chemist, MP Pollution Control Board, Bhopal and Shri Jitesh, representing project were also present.

The inspection report was discussed in the 232th SEAC meeting dated 28/10/2015 and after deliberations committee decided that above report may be sent to SEIAA confirming on the basis of above report that M/s. Vista Organics Pvt. Ltd., have neither expanded their manufacturing facilities nor have made any changes in the product mix and thus recommendation made in the 198th SEAC meeting dated 04/06/2015 for credible action (as per the provisions of OM dated 12/12/2012 issued by MoEF&CC, Delhi) stands withdrawn and PP may be called for the presentation of TOR in the upcoming meetings of SEAC. On the basis of above IR, PP requested for TOR presentation in SEIAA and their application was forwarded by the SEIAA vides letter no.8404 dated 30/11/2015 for necessary action.

The case was presented by the PP and their consultant for TOR in the 260th SEAC meeting dated 07/01/2016 wherein it was observed that as per the Form-1 submitted by the PP there are 12 proposed products but in TOR presentation raw material consumption of only 07 products are given. After deliberation committee decided that since PP has not submitted the detailed information about the raw material consumption they may be called again for TOR presentation after submission of relevant information as above.

The case was presented by the PP and their consultant wherein after presentation committee decided to issue standard TOR prescribed by the MoEF&CC for carrying out EIA with following additional TOR's:-

a. Worst case scenario with respect to water and hazardous waste be discussed in the EIA.
b. Details of the Solvent recovery system for all the solvents proposed / existing in the process.

c. MSDS of all the chemicals should be provided with the EIA report.
d. List of all the additional equipments proposed to be installed with this expansion be provided with the EIA report.
e. Out of proposed sampling locations for Air and Water Pollution Monitoring, Bhojpur Temple should be considered as one of the location for air and similarly Betwa River should also be considered as one of the sensitive location for water quality monitoring. VOC should also be monitored in air quality monitoring.
f. PP has informed that data collection work has been initiated they may be permitted to use these data in the EIA. Committee permitted the PP to use these data in the EIA.
g. The reason for which M. P. Pollution Control Board has issued notice to the unit and corrective measures taken/proposed by the PP should be discussed in the EIA report.

PP vide letter has submitted a request for TOR amendment due to increase in production capacity addition of new products which was forwarded by the SEIAA vide letter no. 311/SEIAA/17 dated 28/04/2017.

The case was presented by the PP and their consultant wherein following change in products is proposed by the PP for which revised Form-1 is also submitted:

Name of product for ToR Amendment	**Pyridine derivatives eg. salt, esters ,Amide**	
	Alpha Picolinic Acid	
	Zinc Picolinate	
	Chromium Picolinate	
	Iron picolinate	
	Copper picolinate	
	Niacin (Nicotinic acid)	
	Niacinamide	
	Chromium Polynicotinate	
	Methyl/Ethyl/Butyl/benzyl Nicotinate	
	Iso Nicotinic acid	
	Isoniazide & Isoamide	
	Isonipecotic acid	
	Azacyclonol	1200 MT/A

	Methyl/Ethyl/hexyl/Benzyl Iso nicotinate	
	2,3 Pyridine Di carboxylic acid	
	2,4 Pyridine Di carboxylic acid	
	2,5 Pyridine Di carboxylic acid	
	2,6 Pyridine Di carboxylic acid	
	3 Amino pyridine	
	4 Amino Pyridine	
	2 Amino 5 Methyl pyridine	
	2 Amino 4 Methyl pyridine	
	2/3/4 Methyl Pyridine N oxide	
	Beta Picoline N oxide	
	Pyridine N oxide	
	Pyridine 2 Aldehyde	
	Pyridine 3 Aldehyde	
	Pyridine 4 Aldehyde	

Name of product for ToR Amendment	**Pyrazineamide acids & its salt**	
	Pyrazinamide	200 MT/A
	Pyrazonic acid	
	Propionic acid and its derivatives	
	Chromium propionate	200 MT/A
	Zinc propionate	
	Iron Propionate	
	Methionate derivatives	
	L- Selenomethinine	200 MT/A
	Chromium methionate	
	Tertery Butyl copper chloride	
		1800MT/A

During presentation PP submitted that they have already collected the base line data and be allowed to use in the EIA report. After presentation, committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:

a. A complete statement should be given in the EIA report about changes in products and product mix wrt to initial proposal and revised proposal.
b. With the enhanced production capacity details of proposed mechanization should be detailed out in the EIA report.
c. Worst case scenario with respect to water and hazardous waste be discussed in the EIA.
d. Details of the Solvent recovery system for all the solvents proposed / existing in the process.
e. MSDS of all the chemicals should be provided in the EIA report.
f. List of all the additional equipments proposed to be installed with this expansion be provided with the EIA report.
g. Out of proposed sampling locations for Air and Water Pollution Monitoring, Bhojpur Temple should be considered as one of the location for air and similarly Betwa River should also be considered as one of the sensitive location for water quality monitoring. VOC should also be monitored in air quality monitoring.
h. For ground water drawl, permission of CGWB should be obtained.

4. Case No. - 5498/2017 M/s Thinq Pharma, A/30, Thinq House Road No. 10, MIDC Wage Estate, Thane West (M.H.) *Prior Environment Clearance for Manufacturing of Product Mix in THINQ Pharma - CRO Ltd, Plot No. M-40 & 42, Sector - 3, Pithampur, Distt. - Dhar, (M.P.)* **Env. Consultant: M/s Ultra-tech Env. Consultancy & Laboratory, Thane.**

This is a case of Manufacturing of Bulk Drug & Drug Intermediate Manufacturing Plant at M 40 & 42 Industrial State Dector-3, Village-Pithampur, Tehsil-Pithampur, District-Dhar (M.P.) The application was forwarded by SEIAA to SEAC for appraisal.

EXECUTIVE SUMMARY

M/s. THINQ PHARMA CRO LTD proposes to establish an Active Pharmaceutical Ingredients / Bulk Drug Intermediates unit at Plot No. M 40 & 42, Pithampur industrial estate-3, Budgoon, Dhar, Madhya Pradesh. The unit will be spread over 21794 square meters of land.

Thinq Pharma has already been granted EC wide Letter "Doc. No. 4518/SEIAA/2016 dated 29/11/2016" for manufacturing of 15 Products. Due to change in the market

scenario, there is change in products list. The total production capacity of all the products is same as earlier i.e. 195.00 MTPA.

There is no Change in the project site, production capacity, land requirements, manpower deployment and water consumption.

1. PROJECT DETAILS

Required details	Existing Project Details	Proposed
Site Address	THINQ Pharma - CRO LTD, Plot No. M40 & 42,pithampur industrial estate-3, Bud goon, Dhār	No changes.
Production Capacity	195. 12 MT	195 MT
Cost of Project	20.00 Crore	49.00 Crore
Boiler capacity	1 no. 3 T Capacity	2 Nos 1.5T each
Power Requirement	500 KVA	600 KVA
Alternative Source of Power	1 No. of 250 KVA	2 No. of 750KVA DG set
Land acquired	Total 21794 square meter	No change

2. PRODUCTS

STREAMLINED LIST OF PRODUCTS		
S.No	**Name of Products**	**Capacity Qty (MT/PA)**
A	**DRUG INTERMEDIATE**	**2**
1	2-Nitro benzene sulfanyl chloride (NSC)	
2	Chlorothymol	
3	Sharpless catalyst (Hydroquinidine 1,4-phthalazinediyl diether or (DHQD)2-PHAL)	
4	1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid (DOTA)	
B	**Contrast media and their intermediates**	**100**
5	Iopamidol	
6	Iodixanol	
7	Iohexol	
8	Iopramide	
9	Ioversol	
10	Iomeprol	
11	Gadoteratemeglumine	

C	**Antidepressant & Antipsychotic**	**5**
12	Paroxetine Hydrochloride	
13	Lithium carbonate	
D	**Antiviral**	**0.5**
14	Valacyclovir hydrochloride	
E	**Antiwrinkle**	**0.5**
15	Trans Retinoic acid, 1-hydroxy-3,3-dimethyl-2-butanone ester(G-101)	
F	**Anticolenergic**	**1**
16	Oxybutynin hydrochloride	
G	**Antihistaminic**	**26**
17	Fexofenadine hydrochloride	
18	meclizine hydrochloride	
19	hydroxyzine hydrochloride	
H	**Antifungal**	**1**
20	Fluconzole	
I	**Bile acid sequestrant**	**9**
21	Colestipol hydrochloride	
J	**Proton pump inhibitor**	**2**
22	Esomeprazole magnesium	
K	**Antidiabetic**	**24**
23	Metformin hydrochloride	
L	**Antiulcer**	**10**
24	Sucralfate	
M	**Feed additive animals**	**6**
25	Ractopamine hydrochloride	
N	**Local anesthetic**	**8**
26	Benzocaine	
TOTAL MANUFACTURING CAPACITY (A+B+C+D+E+F+G+H+I+J+K+L+M+N)		**195**

The solvent will be generated from manufacturing process of all the products. An efficient solvent recovery system will be installed to support the facility. The total solvent recovery will be 23 MT/Day i.e. 8418 MTPA.

3. WASTE WATER GENERATION :

Details of Waste water generation			
S. No.	**Description**	**Existing Waste water Generation (KLD)**	**Future Waste water Generation (KLD)**

	Total Wastewater	58	58
	Break-up		
1	High COD/High TDS	29	32
2	Low COD/Low TDS	24	22
3	Domestic Wastewater	4	4

4. HAZARDOUS WASTE MANAGEMENT:

S. No.	Sources	Type of pollutants	Waste category as per HW Rules 2016	Annual Generation (Existing)	Annual Generation (After)
1	DG Sets	Used / Spent Oil	5.1	2 KL	5KL
2	Process/ Utility equipment maintenance	Oil Soaked Waste	5.2	2 MT	2 MT
3	Production Processes	Process residue & waste	28.1	107 MT	218 MT
		Spent Carbon	28.3	31.17 MT	32 MT
		Off-specification products	28.4	2 MT	2 MT
		Spent solvents	28.6	88.05 MT	142 MT
4	Wastewater Treatment	Chemical Sludge	35.3	10 MT	10 MT
5	Handling of hazardous chemicals	Empty barrels/Containers/liners	33.1	5 MT	5 MT
6	Purification process for organic compound/solvents	Any process or distillation residue	36.1	0.2 MT	0.2 MT

5. POLLUTION PREVENTION AND CONTROL MEASURES –

1. Provision of Adequate Stack height and vents for Boiler and DG sets
2. DG Set with acoustic enclosure mounted on a proper platform to avoid vibration.
3. Hazardous wastes shall be collected and stored with utmost care and shall be disposed to Authorized recycler/TSDF Site at Pithampur.
4. Separation of High & Low COD values effluent for better management of process effluent.

5. Installation Effluent Treatment plant followed by reverse osmosis plant and Multi effect evaporator to recycle water for water conservation and avoid land contamination.
6. Plantation (Pollution Specific green belt development).
7. Ground water recharging through rain water harvesting.
8. Installation of scrubbers.
9. Technically sound environmental cell.

The case was presented by the PP and their consultant in the 287th SEAC meeting dated 25/02/2017 for TOR. During presentation PP submitted that recently they have obtained EC vide letter no. 4518/SEIAA/2016 dated 29/11/2016 with Case No. 5064/2016 (Shri Ravindra Ramakant Gulgule, Joint Managing Director, M/s Thinq Pharma CRO Pvt. Limited, A/30, Thinq House, Road No. 10, MIDC Wagle Estate, Thane West (MH)-400604 for Proposed Active Pharma Ingredients for M/s Think Pharma- CRO Ltd., Bulk Drug & Drug Intermediate Manufacturing Plant at M 40 & 42 Industrial State Dector-3, Village-Pithampur, Tehsil-Pithampur, District-Dhar (M.P.)) This project is also located on the same plot and now due to change in market scenario they are dropping some products from the approved product list and also adding few products for which details are furnished with the application form. PP also submitted that they have collected the data in the months of February, March and April, 2016 and they may be allowed to be used the same data in the EIA report which was considered by the committee. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Worst case scenario with respect to air and water pollutants in the changed product-mix shall be studied and presented along with the treatment options for the same.
2. Complete plan of solvent recovery should be discussed in the EIA report.

PP has submitted the EIA report which was forwarded by the SEIAA vide letter no. 402 dated 11/05/17.

The case was presented by the PP and their consultant wherein during presentation PP informed that no construction and developmental activities are taken up by them wrt earlier EC at the site and submitted that they have only erected boundary wall and a temporary shed to keep construction material. They have also submitted an undertaking for this vide letter dated 22/05/2017. 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. 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. Solvent stripper should be provided with the ETP.
2. RO and MEE should be provided for treatment of high COD waste streams and only in case of emergency/breakdown high COD wastes should be disposed off through CTSDF, Pithampur, Dhar.
3. 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 and data connectivity must be provided to the MPPCB's server for remote operations.
4. Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
5. Two on-line monitoring systems for ambient air quality on suitable locations should be provided and data connectivity must be provided to the MPPCB's server for remote operations. Regular monitoring of ambient air ground level concentration of SO2, NOx, PM2.5 & PM10 shall be carried out in the impact zone and records maintained. The location of the monitoring stations shall be decided in consultation with M.P. Pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry and M.P. Pollution Control Board.
6. Well designed acoustic enclosures for the DG sets and noise emitting equipments to achieve the desirable insertion loss viz. 25 dB(A) should be provided.
7. Ultrasonic/Magnetic flow/Digital meters shall be provided at the inlet and outlet of the proposed ETP & all water abstraction points and records for the same shall be maintained regularly.
8. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
9. Bag filters should be provided in the boiler stack.
10. Ash handling system should be provided.
11. Fly ash generated shall be provided to farmers to be used as manure or disposed of as per Fly Ash Utilization Notification, 1999 and as amended subsequently.
12. Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of atleast 11,775.80 sq. meter of total land. The density of

trees shall not be less than 2500 trees per Ha and PP will also maintain and make casualty replacement of the plantation.

13. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
14. 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.
15. 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.
16. VOCs shall be regularly monitored in the work zone in the plant along with the other parameters and data shall be submitted to MPPCB and R.O of MoEF&CC.
17. 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.
18. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
19. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
20. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. - 5549/2017 Executive Engineer, Narmada Development Canal Division, Khargone, (M.P.) Prior Environment Clearance for Balakwada Lift Irrination Scheme at village Balakwada, Tehsil - Kasrawad, Dist. Khargone, (MP) Cat. 1(c) River Valley and Hydroelectric Projects. FoR – ToR.

This is 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 application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Background

The main objective of Balakwada Lift Irrigation Scheme is to provide irrigation facilities to the water-scare areas in left side of Narmada basin where the level of irrigation is much less as compared to that of national average. The Balakwada Lift Irrigation Scheme has been conceived to cater to irrigation water requirement of 9000 ha. of CCA in Khargone district of Nimar region. Project will provide benefit to 40 villages of Kasrawad Tehsil. Supply source is IndraSagar Main Canal, with lifting point located at RD 145.5 km; Near Jalkhan village in Khargone District. Project is designed for a discharge of 3.22 cumec with total annual utilization of 33.39 MCM. All project components and entire command falls in Khargone district of Madhya Pradesh.

Project Components

Project consists of construction of Jack Well/Pump house at RL 208.825 m to lift water to Distribution Chamber at RL 286.00 m. i.e. a lifting head of 77.175 m through a 2 Km long MS rising main. Power requirement has been estimated as 4.4 MW. Distribution system will be of MS/HDPE and is planned to provide water up to 2.5 ha chak.

Land Requirement

Permanent land will be acquired for construction of pump houses, and distribution chamber of the project, which at present is estimated as 2.5 ha – 2.0 ha of which is forest land and 0.5 ha will be private land. In addition, 2 ha of land will be used temporarily for laying of underground pipelineas per Bhumigat pipe line laying act. The pipeline shall be kept at about 1.0 m below the average ground level.

Salient Features

Detailed salient features of the project are tabulated below:

Name of the Project	Balakwada Micro Irrigation Scheme
Type of Project	Micro Lift Irrigation Project
River Basin	Narmada
Supply Source	Indira Sagar Canal

Lifting Point	ISP Main Canal at RD 145.5 km; Near Jalkhan village in Khargone District
Command	Kasrawad Tehsil of Khargone district
Earthquake Zone	Zone-III (Moderate Seismic)
Nearest Airport	Devi Ahilya Airport, Indore (M.P.) 133 km from lifting point
Nearest Rail Head (BG)	Sanawad; 60 km from Lifting Point
Catchment area of the basin	It is a lift scheme hence no independent catchment is being harnessed
Submergence due to project	No submergence due to project, as it is a lift scheme from existing canal
Water allocation for the State	Quantum of water being lifted for this project is included in the water share of M.P. as per NWDT award
Water allocation for other state	Not applicable
Gross Command Area (GCA)	11250 ha
Culturable Command Area (CCA)	9000 ha
Crop	Rabi - 100% (9000 ha)
Discharge	3.22 cumec
Annual Utilization	33.39 MCM
Estimated life of the project	50 Years
Head Regulator(s)	Intake well at Lifting point & Outlet regulators at D C and Main pipe line
Pump Head	77.175 m (lifting level: 208.825 m; final delivery level: 286 m)
Pipe System	Rising Main (2 Km - MS Pipe)
Distribution system	Piped distribution up to 2.5 Ha (HDPE/MS/DI Pipe)
Power Requirement	4.4 MW
Cost	123.69 Crore
B. C. Ratio	2.22

The case was presented by the PP and their consultant wherein during presentation it was observed that apprx. 2.00 ha forest area is involved in the project for which PP have to obtained the Forest Clearance. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis be conducted and presented in the EIA report and should also take into consideration environmental/ecological factors.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
13. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

6. Case No. - 5550/2017 Executive Engineer, Narmada Development Canal Division, Khargone, Distt. - Khargone, (M.P.) *Prior Environment Clearance for Choundi Jamunia Lift Irrination Scheme at village Bhikangoan, Tehsil - Kasrawad, Dist. Khargone, (MP) Cat. 1(c) River Valley and Hydroelectric Projects.*

This is 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 application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Background

The main objective of ChoundiJamunia Lift Irrigation Scheme is to provide irrigation facilities to the water-scare areas in left side of Narmada basin where the level of irrigation is much less as compared to that of national average. The ChoundiJamunia Lift Irrigation Scheme has been conceived to cater to irrigation water requirement of 4000 ha. of CCA in Khargone district of Nimar region. Project will provide benefit to 10 villages – 8 from Bhikangaon tehsil and 2 from Kasrawad Tehsil. Supply source is IndraSagar Main Canal, with lifting point located at RD 85.82 km; Near Bhagwanpura village in Khargone District. Project is designed for a discharge of 1.42 cumec with total annual utilization of 14.76 MCM. All project components and entire command falls in Khargone district of Madhya Pradesh.

Project Components

Project consists of construction of Jack Well/Pump house at RL 218.08 m to lift water to Distribution Chamber at RL 258.00 m. i.e. a lifting head of 39.92 m through a 5.2 Km long MS rising main. Power requirement has been estimated as 1.5 MW. Distribution system will be of MS/HDPE and is planned to provide water up to 2.5 ha chak.

Land Requirement

Permanent land will be acquired for construction of pump houses, and distribution chamber of the project, which at present is estimated as 2.5 ha – 0.9 ha of which is forest land and 1.6 ha will be private land. In addition, 3.2 ha of land will be used temporarily for laying of underground pipelineas per Bhumigat pipe line laying act. The pipeline shall be kept at about 1.0 m below the average ground level.

Salient Features

Detailed salient features of the project are tabulated below:

Name of the Project	ChoundiJamunia Micro Irrigation Scheme
Type of Project	Micro Lift Irrigation Project
River Basin	Narmada

Supply Source	Indira Sagar Canal
Lifting Point	ISP Main Canal at RD 85.82 km; Near Bhagwanpura village in Khargone District
Command	Kasrawad&Bhikangaon tehsils of Khargone district
Earthquake Zone	Zone-III (Moderate Seismic)
Nearest Airport	Devi Ahilya Airport, Indore (M.P.) 100 km from lifting point
Nearest Rail Head (BG)	Sanawad; 25 km from Lifting Point
Catchment area of the basin	It is a lift scheme hence no independent catchment is being harnessed
Submergence due to project	No submergence due to project, as it is a lift scheme from existing canal
Water allocation for the State	Quantum of water being lifted for this project is included in the water share of M.P. as per NWDT award
Water allocation for other state	Not applicable
Gross Command Area (GCA)	9502.447 ha
Culturable Command Area (CCA)	4000 ha
Crop	Rabi - 100% (4000 ha)
Discharge	1.42 cumec
Annual Utilization	14.76 MCM
Estimated life of the project	50 Years
Head Regulator(s)	Intake well at Lifting point & Outlet regulators at D C and Main pipe line
Pump Head	39.92 m (lifting level: 218.08 m; final delivery level: 258 m)
Pipe System	Rising Main (5.2 Km - MS Pipe)
Distribution system	Piped distribution up to 2.5 Ha (HDPE/MS/DI Pipe)
Power Requirement	1.5 MW
Cost	68.36 Crore
B. C. Ratio	1.88

The case was presented by the PP and their consultant wherein during presentation it was observed that apprx. 0.90 ha forest area is involved in the project for which PP have to obtained the Forest Clearance. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis be conducted and presented in the EIA report and should also take into consideration environmental/ecological factors.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
13. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

7. Case No. - 5551/2017 Executive Engineer, Narmada Development Division No. 21, Sanawad, Distt. - Khargone, (M.P.) ***Prior Environment Clearance for Amba-Rodia Lift Irrination Scheme at Tehsil - Sanawad, Dist. Khargone, (MP) Cat. 1(c) River Valley and Hydroelectric Projects.*** **FoR – ToR. Env. Consultant- Not disclosed.**

This is 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 application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Background

The main objective of AmbaRodia Lift Irrigation Scheme is to provide irrigation facilities to the water-scare areas in left side of Narmada basin where the level of irrigation is much less as compared to that of national average. The AmbaRodia Lift Irrigation Scheme has been conceived to cater to irrigation water requirement of 9915 ha. of CCA in Khargone district of Nimar region. Project will provide benefit to 21 villages which includes 10 villages of Sanawad tehsil, 4 villages of Bhikangaontehsil and 7 villages of Kasrawad Tehsil. Supply source is IndraSagar Main Canal, with lifting point located at RD 74.3 km; Near Rodia village in Khargone District. Project is designed for a discharge of 3.54 cumec with total annual utilization of 36.7 MCM. All project components and entire command falls in Khargone district of Madhya Pradesh.

Project Components

Project consists of construction of Jack Well/Pump house at RL 218.31 m to lift water to Distribution Chamber at RL 294.00 m. i.e. a lifting head of 75.69 m through a 6 Km long MS rising main. Power requirement has been estimated as 5 MW. Distribution system will be of MS/HDPE and is planned to provide water up to 2.5 ha chak.

Land Requirement

Permanent land will be acquired for construction of pump houses, and distribution chamber of the project, which at present is estimated as 2.5 ha – 1.5 ha of which is forest land and 1 ha will be private land. In addition, 6 ha of land will be used temporarily for laying of underground pipeline as per Bhumigat pipe line laying act. The pipeline shall be kept at about 1.0 m below the average ground level.

Salient Features

Detailed salient features of the project are tabulated below:

Name of the Project	AmbaRodio Micro Irrigation Scheme
Type of Project	Micro Lift Irrigation Project

River Basin	Narmada
Supply Source	Indira Sagar Canal
Lifting Point	ISP Main Canal at RD 74.3 km; Near Rodia village in Khargone District
Command	Sanawad, Kasrawad&Bhikangaon Tehsils of Khargone District
Earthquake Zone	Zone-III (Moderate Seismic)
Nearest Airport	Devi Ahilya Airport, Indore (M.P.) 110 km from lifting point
Nearest Rail Head (BG)	Sanawad; 35 km from Lifting Point
Catchment area of the basin	It is a lift scheme hence no independent catchment is being harnessed
Submergence due to project	No submergence due to project, as it is a lift scheme from existing canal
Water allocation for the State	Quantum of water being lifted for this project is included in the water share of M.P. as per NWDT award
Water allocation for other state	Not applicable
Gross Command Area (GCA)	13084 ha
Culturable Command Area (CCA)	9915 ha
Crop	Rabi - 100% (9915 ha)
Discharge	3.54 cumec
Annual Utilization	36.7 MCM
Estimated life of the project	50 Years
Head Regulator(s)	Intake well at Lifting point & Outlet regulators at D C and Main pipe line
Pump Head	75.69 m (lifting level: 218.31 m; final delivery level: 294 m)
Pipe System	Rising Main (6 Km - MS Pipe)
Distribution system	Piped distribution up to 2.5 Ha (HDPE/MS/DI Pipe)
Power Requirement	5 MW
Cost	138.29 Crore
B. C. Ratio	2.38

The case was presented by the PP and their consultant wherein during presentation it was observed that apprx. 1.50 ha forest area is involved in the project for which PP have to obtained the Forest Clearance. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis be conducted and presented in the EIA report and should also take into consideration environmental/ecological factors.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
13. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

8. Case No. - 5515/2016 Executive Engineer, Indore Development Corporation, 7, Race Course Road, Indore, (M.P.) - 452003 *Prior Environment Clearance for Area Development of Scheme 169B, Super Corridor, Indore, (M.P.)*

Net Plot Area – 1447900 m2 (357.784 Acre) Total Built up Area – 4400 m2 (Approx) Cat. - 8(b) Project. FoR – EIA Presentation. **Env. Consultant- M/s InSitu Enviro Care, Bhopal**

The proposed project falls under item no 8(b) i.e. area development project of Scheme 169B, Super Corridor, Indore, (M.P.) Net Plot Area – 14,47,900 m2 hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features of the project before the committee in the meeting.

EXECUTIVE SUMMARY

Indore Development Authority (IDA) proposes an Area Development project, Scheme no. 169 B, Super Corridor in the city of Indore.

The Area development of Scheme 169 B, Super Corridor offers to enhance the already rich culture with modern development elements and amenities. SCP is envisioned to be a Transit Oriented Development (TOD) serving the city, it would enable travelers to shun the city traffic and reach the airport in no time. This enhances the opportunities that the abutting land provides all along the road Ring Road Western - 2 & Main Road 10. The purpose is to develop more attractive vibrant, healthy, clean and safe environment, with modern facilities, a full range of services and well maintained infrastructure offering a highly desirable place to work, live, invest and cater to the needs of a diverse community with a comprehensive development plan including:

- ✓ Plotted area (Commercial)
- ✓ Area under Coordinated Plots (Super Corridor)
- ✓ Public Utility
- ✓ Solid Waste Transfer Station
- ✓ Parking Lots
- ✓ MPEB Grid
- ✓ Commercial Facilities (Petrol Pump, etc)
- ✓ Communication Nodes
- ✓ Parks, roads, pedestrian pathways.
- ✓

Construction will be done by individual plot owners. IDA will construct only the following facilities:

- Over Head Water Tank

- Under Ground Sump well
- Site Office and Store
- Sewage Treatment Plant

The case was presented by the PP and their consultant in the 287th SEAC Meeting dt. 25/02/17 wherein it was submitted by the PP that this is an area development project where except few facilities such as over head tank, underground water sump and sewage treatment plant will be constructed by them and all other constructional activities will be taken up by the individual owners. Committee informed PP that with the case file in "project brief" PP has mentioned total built-up area approx. 22,06,500 sq. meters which comprises of residential, commercial, public facilities and other commercial facilities which creates confusion as with this much of construction area this will become category-A project. Committee after deliberations asked PP to submit revised proposal clearly stating the constructional activities that will be taken up by them with the total area of construction for further consideration of the project.

PP vide letter dated 28/02/2017 has submitted the revised application which was forwarded by the SEIAA vide letter no. 5480/SEIAA/17 dated 07/03/2017.

The case was presented by the PP and their consultant wherein PP informed that they have started collecting the baseline data for this project from March, 2017 and total built-up area will be 4400 sq. meter for Over Head water Tank, Under Ground Sump Well, Site Office and Store with following details:

1. Type of project: Area Development Project, Scheme no. 169 B, Super Corridor
2. S. No. & Category as per the Schedule of EIA Notification, 2006: 8 (b), B
3. Project Location: Super Corridor, Indore, Madhya Pradesh
4. Nearest Airport: Devi Ahiliya Bai Holkar International Airport (approx.. 7.4 km)
5. Nearest Railway Station: Indore Railway Station (approx. 4.5 km)
6. Net Planning area: 14,47,900 sq. m.
7. Built-up area: 4400 sq.m.
8. Green area: 1,52,200 sq.m.

9. Population: 90,233 persons

10. Water demand: 8443.5 KLD

11. Waste water generation: 6714.5 KLD

12. Electricity load: 50 MW

13. Solid waste generation: 33,025 kg/d

14. Proposed parking: As this is an area development project, parking facilities will be provided within the plots by the respective plot owners as per State Bye Laws norms. Common parking lots (measuring 25,570 sqm) will be developed by IDA.
15. Maximum Building Height: Indore Development Authority will only develop the infrastructure and not do constructions work. Hence, building height is not applicable.

Committee after deliberations recommends to issue standard TOR as prescribed by the MoEF & CC for conducting EIA studies be issued along with following additional TOR's:

1. If any tree felling is involved same should be detailed out in the EIA report with number of trees and scheme of compensatory plantation.
2. All the pollution loads should be calculated considering proposed commercial activities and visitors' population.
3. Explore the possibility of using high volume cement for construction of CC roads in the project.
4. Storm water drainage system should be proposed and discussed in the EIA report.
5. A common STP is proposed for the Scheme 169B& Scheme 151, thus it should be justified in EIA report how one STP will take care the load of both the projects w.r.t. to inlet volume and how the treated waste water will be disposed off.
6. Details of avenue plantation and green belt development plan should be discussed in the EIA report with proposed financial provision.

PP has submitted the EIA report vide letter dated 05/05/2017 which was forwarded by SEIAA letter no. 361 dated 08-05-17.

The case was presented by the PP and their consultant wherein PP informed that they have collected the data from December, 2016 to February, 2017. PP further submitted

that 16 trees are existing on the site which will not be uprooted. The source of water supply will be Indore Municipal Corporation. PP also informed that the cases pending in the court of law are related to land acquisition and no case is related to environmental issues for which a written commitment is also submitted by the PP vide letter no. 3445 dated 22/05/2017/. The EMP and other submissions made by PP were found adequate and satisfactory thus the case is recommended for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 8443.50 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, approx. 1900 nos. of trees will be planted on 1,52,200 sq meter area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
4. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
5. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights and solar panels should be provided on the roofs as proposed by the PP during presentation.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
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 labor 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 should explore the possibility of providing multi level parking.

9. Case No. - 5516/2016 Executive Engineer, Indore Development Corporation, 7, Race Course Road, Indore, (M.P.) – 452003 Prior Environment Clearance for Area Development of Scheme 151 (Sec B, C and D, Super Corridor, Indore, (M.P.) Net Plot Area – 1487400 m2 (367.544 Acre) Total Built up Area – 100 m2 (Approx) Cat. - 8(b) Project. Env. Consultant- M/s InSitu Enviro Care, Bhopal

The proposed project falls under item no 8(b) i.e. area development project of scheme 151 (Sec B, C and D, Super Corridor, Indore, (M.P.) Net Plot Area – 1487400 m2, hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features of the project before the committee in the meeting.

EXECUTIVE SUMMARY

Indore Development Authority (IDA) proposes an Area Development project, Scheme no. 151 (Sec-B, C and D), Super Corridor in the city of Indore.

With a High impact/market driven nodes, integrated Investment Region (IRs) and Industrial Areas (IAs) have been identified within the corridor to provide transparent and investment friendly facility regimes. These regions are proposed to be self-sustained industrial townships with world-class infrastructure, road and rail connectivity for freight movement to and from ports and logistics hubs, served by domestic/ international air connectivity, reliable power, quality social infrastructure, and provide a globally competitive environment conducive for setting up the business opportunities.

The Area development of Scheme 151 (Sec-B, C & D) Super Corridor offers to enhance the already rich culture with modern development elements and amenities. SCP is envisioned to be a Transit Oriented Development (TOD) serving the city, it would enable travelers to shun the city traffic and reach the airport in no time. This enhances the opportunities that the abutting land provides all along the road RW-2 & MR10. The purpose is to develop more attractive vibrant, healthy, clean and safe environment, with modern facilities, a full range of services and well maintained infrastructure offering a highly desirable place to work, live, invest and cater to the needs of a diverse community with a comprehensive development plan including:

- ✓ Plotted area (Commercial)
- ✓ Area under Coordinated Plots (Super Corridor)

- ✓ Public Utility
- ✓ Solid Waste Transfer Station
- ✓ Parking Lots
- ✓ MPEB Grid
- ✓ Commercial Facilities (Petrol Pump, etc)
- ✓ Communication Nodes
- ✓ Parks, roads, pedestrian pathways

Indore Development Authority will develop the infrastructure including roads, sewer line, CSTP (Common for Scheme no. 151, 166 and 169 B of Super Corridor), water supply line, electricity, etc. Construction will be done by individual plot owners. IDA will construct only the Site Office and Store.

The case was presented by the PP and their consultant wherein it was submitted by the PP that this is an area development project where except few facilities such as over head tank, underground water sump and sewage treatment plant will be constructed by them and all other constructional activities will be taken up by the individual owners. Committee informed PP that with the case file in "project brief" PP has mentioned total built-up area approx. 29,36,050 sq. meters which comprises of residential, commercial, public facilities and other commercial facilities which creates confusion as with this much of construction area this will become category-A project. Committee after deliberations asked PP to submit revised proposal clearly stating the constructional activities that will be taken up by them with the total area of construction for further consideration of the project.

PP vide letter dated 28/02/2017 has submitted the revised application which was forwarded by the SEIAA vide letter no. 5482/SEIAA/17 dated 07/03/2017.

The case was presented by the PP and their consultant wherein PP informed that they have started collecting the baseline data for this project from March, 2017 and total built-up area will be 100 sq. meter Site Office and Store with following details:

1. **Type of project:** Area Development Project, Scheme no. 151 (Sec-B, C & D), Super Corridor
2. **S. No. & Category as per the Schedule of EIA Notification, 2006**: 8 (b), B
3. **Project Location**: Super Corridor, Indore, Madhya Pradesh.
4. **Nearest Airport**: Devi Ahiliya Bai Holkar International Airport (Approx.7.4 km)
5. **Nearest Railway Station**: Indore Railway Station (Approx. 4.5 km)

6. **Net Planning area**: 14, 87,400 sq.m.
7. **Built-up area**: 100 sq.m (Site Office & Store)
8. **Green area**: 2, 63,100 sq.m.
9. **Population:** 1,22,006 persons (fixed + floating)
10. **Water demand**: 11,522 KLD
11. **Waste water generation**: 8533 KLD
12. **Electricity load**: 50 MW
13. **Solid waste generation**: 44,582 kg/day
14. **Proposed parking**: As this is an area development project, parking facilities will be provided within the plots by respective plot owners as per State Bye Laws requirement. Common parking lots (measuring 34,433 sqm) will be developed by IDA.
15. **Maximum Building Height**: Indore Development Authority will only develop the infrastructure and not do constructions work. Hence, building height is not applicable.

Committee after deliberations recommends to issue standard TOR as prescribed by the MoEF & CC for conducting EIA studies be issued along with following additional TOR's:

1. If any tree felling is involved same should be detailed out in the EIA report with number of trees and scheme of compensatory plantation.
2. All the pollution loads should be calculated considering proposed commercial activities and visitors' population.
3. Explore the possibility of using high volume cement for construction of CC roads in the project.
4. Storm water drainage system should be proposed and discussed in the EIA report.
5. A common STP is proposed for the Scheme 169B& Scheme 151, thus it should be justified in EIA report how one STP will take care the load of both the projects w.r.t. to inlet volume and how the treated waste water will be disposed off.
6. Details of avenue plantation and green belt development plan should be discussed in the EIA report with proposed financial provision.

PP has submitted the EIA report vide letter dated 05/05/2017 which was forwarded by SEIAA letter no. 363 dated 08-05-17.

The case was presented by the PP and their consultant wherein PP informed that they have collected the data from December, 2016 to February, 2017. The source of water supply will be Indore Municipal Corporation. PP also informed that the cases pending in the court of law are related to land acquisition and no case is related to environmental issues for which a written commitment is also submitted by the PP vide letter no. 3445 dated 22/05/2017/. The EMP and other submissions made by PP were found adequate and satisfactory thus the case is recommended for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 6173 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, approx. 3249 nos. of trees will be planted on 2,63,100 sq meter area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
4. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
5. Power back-up for un-interrupted operations of STP shall be ensured.
6. CFL/LED should be preferred over of tube lights and solar panels should be provided on the roofs as proposed by the PP during presentation.
7. Fund should be exclusively earmarked for the implementation of EMP.
8. MSW storage area should have 48 hours storage capacity.
9. Dual plumbing should be provided.
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 labor 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.
14. PP should explore the possibility of providing multi level parking.

DISCUSSION ON CASES OF SITE VISIT AND QUERY REPLY SUBMITTED BY PP.

10. Case No. - 5507/2017 Public Works Department, Project Implementation Unit, Bhopal Shed No. - 14A, Jawahar Chowk, Distt. - Bhopal, (M.P.) – 462003 *Prior Environment Clearance for Revision and Expansion Project Hamidia Hospital (Smart Medi City), Royal Market, Hamidia Road, Peer Gate, Bhopal, (M.P.) Plot Area – 1,61,915.4 m2, Cat.- 8(b) Project. Building Construction. Env. Cons.- GRC India (P) Ltd. Noida (U.P.).*

This is a case of Prior Environment Clearance for Revision and Expansion Project Hamidia Hospital (Smart Medicity), Royal Market, Hamidia Road, Peer Gate, Bhopal, (M.P.) Plot Area – 1,61,915.4 m2, Built Up Area of Hospital – 1,87,470.15 m2 Cat. 8(b) Project. The application was forwarded by SEIAA to SEAC for appraisal.

The case was presented by the PP and their consultant in the 287th SEAC Meeting dt. 25/02/2017 wherein following submissions were made by the PP:

- M.P. Public Works Department proposes the revision/modification and expansion of Hamidia Hospital (Smart Medicity) located at Royal Market, Hamidia Road, Peer Gate, Bhopal, Madhya Pradesh.
- As a result of proposed modification and expansion, the site area will remain same as earlier 1,61,915.4 m^2 (40.01 acre). However, the built-up area will increase from 76,641.62 m^2 to 1,87,470.15 m^2.
- As per the gazette notification dated 22nd Dec., 14, educational institutional projects including colleges and hostels are exempted from Environment Clearance.
- Further, as per MoEF&CC circular dated 9th Jun., 15 a clarification was issued that in case of medical universities/institutes, the component of Hospitals will continue to require Environment Clearance.
- Hamidia Hospital is located within the premises of Gandhi Medical College which is among the oldest and most prestigious medical colleges of Madhya Pradesh and India and was established in the year 1955.
- Modification/Revision: Certain existing buildings will be retained while some would be demolished. It is also proposed to add some new buildings.

Details of Hospital part:

Existing buildings to be	ETP, Admin and Blood Bank, Charm Rog Vibhag,

Demolished	Physiotherapy, Lions ward Old Pvt. Deptt., Operation Theatre and Eye Ward, Operation Theatre, ICCU Cardiology and Medical Ward, Medical Ward
Existing buildings to be **Retained**	Virology Lab, Animal House, Kamla Nehru Hospital, Lab, Admin & Blood Bank, Old OPD, New OPD
Proposed **New Buildings**	Hospital Block I, Hospital Block II, Multilevel Parking 10 and 11, Connecting Bridge

Details of remaining part of Gandhi Medical College (excluding Hospital)

Existing buildings to be **Demolished**	Girls Hostel (A3, B4 Block), Boys Hostel (B5 Block), Quarters (A4, A7, B7, B8), Houses (A5, A6, B6), Post Office, Hawa Mahal, Corridor, Kitchen, Garage, Restaurant, Nurse Hostel, H Shade
Existing buildings to be **Retained**	Boys Hostel (M1-M3), Girls Hostel(D2, D1), Guest House, Gandhi Medical College, Mosque, Staff Quarter(J), Sports Block, Hostel adjoining Kamla Nehru Hospital.
Proposed **New Buildings**	Nursing College and Hostel, Hostel 7

After presentation, PP was asked to submit following details for further considerations of the project:

1. During presentation and deliberations, it was observed by the committee 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 by the PP thus clearance from NBWL is therefore needed. Committee after deliberations decided that PP should be asked to apply online for NBWL clearance and a copy of the application may be submitted to SEAC for further appraisal of the project.

2. PP was also asked to submit the revised form-1 as important environmental features such as Upper Lake, Lower Lake, Defense installations etc. which are in the vicinity of the project site and their details are not mentioned in the from-1 “Environmental Sensitivity”.

PP vide letter dated 03/03/2017 has submitted the revised application with copy of online application for NBWL clearance (Proposal No. FP/MP/DISP/1504/2017 Date

of submission 02/03/2017) which was forwarded by the SEIAA vide letter no. 5478/SEIAA/17 dated 07/03/2017.

The case was presented by the PP and their consultant in the 288th SEAC meeting dated 30/03/2017 wherein PP informed that this is an existing hospital attached with medical college. PP further submitted that some existing buildings will be demolished as per the details given in the proposal and they have started baseline studies from the December, 2016. PP also submitted that since the site is within 10 Km radius of Van Vihar National Park (a Notified PA) clearance from NBWL is therefore needed and thus they have filled online application for NBWL clearance with Proposal No. FP/MP/DISP/1504/2017 & date of submission 02/03/2017. Committee also proposes to carryout site visit of this project and any additional TOR may be issued after the site visit (if required). The committee after deliberations decided to issue standard TOR prescribed by MoEF&CC with following additional TORs:

1. Complete demolition plan illustrating impacts on the existing facilities and activities and the preventive measures proposed to be taken should be discussed in the EIA report.
2. Any buildings of archeological importance should be reported in the EIA report.
3. Population load of attendants with patients, canteens, restaurants etc should also be added in all the load calculations and for prediction of impacts.
4. Disposal plan of C&D materials should be provided with the EIA report.
5. If any tree felling is involved same should be addressed in the EIA report with compensatory plantation scheme.
6. T&CP approval should be submitted with the EIA report.
7. Various facilities proposed for the attendants of patients should be discussed in the EIA report.
8. Green belt plan with name of species, their numbers on layout map should be provided with the EIA report.
9. If laundry is proposed its details, load and disposal plan should be provided with the EIA report.

PP vide letter no. 385 dated 17/05/2017 has informed that there is no structure being constructed within 100 meters/ regulated boundary of existing structures of archeological importance which was placed before the committee. Committee on perusal of the information submitted by the PP observed that since PP has confirmed that there is no structure being constructed within 100 meters/ regulated boundary of existing structures of archeological importance, now there is no need to carryout site visit of this project or proposed any further additional TOR as decided in the 288th SEAC meeting dated 30/03/2017.

11. Case No. - 2318/2014 Mr. Manoj Jain, Plant Head, M/s SRF Limited, Special Economic Zone, Phase-I, Sec-III, Plot No. C-1 to 8, C-21 to 30, D-13 to 18, D-25 to 32 and 41, 41A, 42, 43 & 54, 55, 56 & 56A, Village & Tehsil-Pithampur, District-Dhar (M.P.)-454775 Polyester Film- 64123 MT/Annum, Polyester Resin – 61000 MT/Annumn (Including value added Metalized film 12000 MT, Holographic Film- 1200 MT) Area- 68,592 sq/m. (Additional Product-Polyester Resin)

BACKGROUND

The case was initially discussed in the 173rd SEAC meeting dated 23/02/2015 wherein committee after deliberations has approved the TOR with inclusion of following points in addition to standard TOR to be addressed in EIA / EMP:

- Note detailing production processes for all the proposed products (i.e *Polyester Film, Polyester Resin, value added Metallised film and Holographic Film)* and the proposed change in fuel, so as to justify the need of prior EC.
- Justify the proposed use of Pet Coke in place of Oil/Gas as fuel in terms of Sulphur contents / SO2 emissions.
- Expected adverse impacts from the proposed activities and the mitigations planned thereby to be furnished in EIA / EMP.

Later on PP has applied for issuance of additional TOR as they propose expansion in production capacity polyester resin from 61,000 MT/annum to 80,000 MT/Annum with additional capacity of 19,000 MT/annum.

The case was presented by the PP and their consultant in the 275th SEAC meeting dated 12/05/2016 wherein after deliberations committee decided that the unit may be inspected by the committee and following additional TORs be added in the TOR already prescribed as per the decision taken in the 173 SEAC meeting dt. 23/02/15:

1. Changes required in plant & machinery for proposed expansion in production capacity of polyester resin from 61,000 MT/annum to 80,000 MT/Annum should be discussed in the EIA report.
2. Generation and disposal plan of "Used TEG" should be discussed in the EIA report.
3. Characterization of ETP sludge and Holographic sludge along with their disposal plan be provided in the EIA report.
4. An affidavit should be submitted by the PP that no construction/installation activities have been initiated on site w.r.t. proposed expansion.
5. Worst case scenario be discussed w.r.t. use of Petcoke as fuel.

Shri M.K. Joshi, Member SEAC and Shri R. Maheshwari, Member SEAC visited the site on 21/05/2017. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer, M. P. Pollution Control Board, Bhopal and Shri Manoj Jain, Plant Head and Mr. Mishra, Head Admin., were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Shri AK Bisen, EE accompanied the SEAC team to the site.

Salient features of the project:

This is an industrial project comprising production of Polyster Film & Polyester Resin. The proposed production capacity is- Polyester Film- 64123 MT/Annum, Polyester Resin – 61000 MT/Annum (Including value added Metallised film 12000 MT & Holographic Film- 1200 MT) Area- 68592 sq/m. The project is covered under the provisions of EIA Notification as item no. 5(f). Later on PP has applied for issuance of additional TOR as they propose expansion in production capacity polyester resin from 61,000 MT/annum to 80,000 MT/Annum with additional capacity of 19,000 MT/annum.

The proposed project falls under Indore Specific Economic Zone at Pithampur, Indore in 68592 sq/m area (16.95 Acre).

Plot/Survey/Khasra No.	Indore SEZ, Phase-I Sec-III, Plot No. C-1 to 8, C-21 to 30, D-13 to 18, D-25 to 32 and 41, 41A, 42, 43 & 54,55 & 56 A
Village/Town	Pithampur
Tehsil	Pithampur
District	Dhar
State	Madhya Pradesh

Sr. No	**Name of product**	**Existing Products**	**Total After expansion**	
1	Polyester film	64123 MTPA	-	
2	Polyester Resin	61,000MPTA	19,000 MT/annum	
3	Metallized film	12000 MT		
4	Holographic Film	1200 MT	-	
5	Solid Fuel Fired Thermic Fluid heater	9 MKCal/hr X2 Liquid and Gas Fules	9 MKCal/hr X2+08 Million Kcal/hr	

6.	Offline Coating Machine	--	3600 TPA	
7.	Metalizer	--	27,000 TPA	

Sr. No	**Name of product**	***ToR Granted for following capacity**	**Additional capacity**	**Total Capacity after ToR amendment**
1	Polyester film	64123 MTPA	-	64123 MT/annum
2	Polyester Resin	61,000MPTA	19,000 MT/annum	80,000 MT/annum
3	Metallized film	12000 MT		12000 TPA
4	Holographic Film	1200 MT	-	1200 TPA

Sl.	Particulars	Details
1.	Project Location	Indore Special Economic Zone, Phase-I , Sec-III, Plot no. C- 1 to 8, C -21 to 30, D- 13 to 18, D- 25 to 32, and 41, 41A, 42,43 & 54, 55, 56 & 56A, Pithampur-454775, Dhar- District, Madhya Pradesh
2.	Toposheet No.	46 N/10
3.	Climatic Conditions	Mean annual rainfall is around 833 mm. In summer the highest day temperature is in between 31°C to 43°C. Average temperature in January is 21°C and fluctuates between 21 to 28°C in winter.
4.	Site elevation above Mean Sea Level	Highest Observed: 551m Lowest Observed: 548m
5.	Land use of proposed project site	Flat terrain, under SEZ, Pithampur (Indore), Barren land
6.	Site topography	Flat
7.	Nearest roadway	Pithampur Ghatabilod Road ~0.3 Km, N

8.	Nearest Railway Station	Mhow Railway Station ~19 Km, ESE Indore Railway Station ~29 Km, ENE
9.	Nearest Air Port	Devi Ahilyabai Holkar (Indore) Airport ~24 Km, ENE
10	Nearest village/major town	Nearest town- Pithampur ~9 Km, ESE
11.	Nearest Port	NA
12.	Nearest lake	NA
13.	District Headquarters	Dhar, 31 Km. W
14.	Nearest city	MHOW in 18 km
15.	Nearest state/National Boundaries	Maharashtra
16.	Nearest major city with 2,00,000 population	Indore 45 km
17.	Distance for sea coast	NA
18.	Hills/valleys	NA
19.	Nearest Reserved/Protected forests	Betma Reserve Forest ~ 5.1 ENE Bhawargad Protected Forest ~8.2 NE
20.	Historical/tourist places	Nil
21.	Nearest Industries	The project itself under a Notified Special Economic Zone
22.	Nearest water bodies	Angrer River ~3 Km SE from project site
23.	Seismic zone	Seismic zone III as per IS-1893 (part-I)-2002

OBSERVATIONS

The site is located in Special Economic Zone, phases I and at present is in operation with existing production capacities of Polyester Resin 61,000 MT/Year, Polyester Film 64,123 MT/Year, Metallized Film 12,000MT/Year and Holographic Film 1200 MT.

Two liquid & Gas fuels fired thermic fluid heather of 09 MKCal/Hr are also in operation. The proposal is to enhance the production of polyester resin by 19,000 MT/annum and to install Offline Coating Machine 3600 TPA, Metalizer 27,000 TPA. It is also proposed to install additional Petcoak& Coal fired heater of 08 MKCal/hr.

During inspection it was observed that the unit is operating polyester resin plant for 61,000 MT/Year with Two liquid & Gas fuels fired thermic fluid heather of 09 MKCal/Hr. The waste water generated from the unit is treated in the ETP of 55m3/day. The present load of effluent is 38m3/day. However, the domestic effluent approx. 40 m3/year is treated in the CETP. The generated hazardous wastes are disposed of through CTSDF, Pithampur, Dhar. The housekeeping of the plant premises was very good and no ongoing constructional /plant erection activities were noticed during the site visit. The green belt is developed all around the plant premises and as informed 5169 trees is planted till date.

The inspection report was placed before the committee for discussion. Committee observed that no ongoing constructional /plant erection activities were noticed during the site visit and thus no additional TOR to that already given in 275th SEAC meeting dated 12/05/2016 is proposed and reiterates the points already given in ToR.

12. Case No. – 5517/2017 Director, M/s Madhya Bharat Phosphate Private Limited Unit III, located at Plot No. – 176, AKVN Industrial Area – Meghnagar, Distt. – Jhabua (M.P.) 457779 for *Manufacturing of Acid Slurry "LABSA" – 12480 MT/Annum*.

BACKGROUND

The case was discussed in the 288th SEAC meeting dated 30/03/2017 wherein committee after deliberations decided to issue standard TOR prescribed by MoEF&CC with following additional TORs:

3. Justify in EIA report how zero discharge will be maintained.
4. MoEF&CC compliance report of earlier EC conditions issued for SSP plant duly verified by the competent authority.
5. Justify in EIA report wrt to available space and proposed machinery for the new plant and other facilities.
6. The comprehensive EIA study of AKVN Meghnagar industrial area is being carried out by AKVN. The recommendations made / issues raised in this comprehensive EIA study will have to be addressed by PP.

Committee also proposes to carryout site visit of this plant as per the policy decision of SEIAA (taken in their 250th meeting dated 14/10/2015). As per the above decision site inspection was carried out.

Shri M.K. Joshi, Member SEAC and Shri R. Maheshwari, Member SEAC visited the site on 21/05/2017. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer, M.P. Pollution Control Board, Bhopal and Shri T. C. Parmar, Plant head and Shri M. K. Dixit, Unit Head LABSA, were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Shri AK Bisen, EE accompanied the SEAC team to the site.

Salient features of the project:

Following site location and other details were presented by the PP and their consultant in the 288th SEAC meeting dated 30/03/2017 for obtaining TOR:

Particulars	**Details**
Project	Manufacturing of Acid Slurry (LABSA-90% : 40 TPD Or 12480 TPA
Total Power requirement for process	50 KW
Total Land available	Proposed LABSA unit is interlinked with Existing GSSP/SSP unit. The total Land area available with the unit is 26,600 sq.mt. out of that 3592 sq.mt land is earmarked for the proposed plant.
Raw material required	Linear Alkyl Benzene – 675 MT/Month, Sulphuric Acid 98% - 1015 MT/Month
Source of Power	Madhya Pradesh State Electricity Board (MPSEB).
Water Requirement & Source	33 KLD through AKVN water supply
Fuel Requirement	HSD (for D.G. Set) in emergency only
Cost of project	270 Lacs
Cost of Pollution Control Equipments	Approx 5 Lacs
Number of employment generation	10 persons

Proposed area for plantation	751.501 sq mt
Existing area of plantation	10653 sq mt
Fund for CSR activities	As per guidelines

Land break up:

Land earmarked for proposed unit: 3592 **m^2**

S. No.	Section	Area (m^2)
1	Electric Unit area	146
2	Panel room area	92.71
3	Offices area	80
4	Store Room	160
5	Workshop area	248
6	Loading and unloading point	680
7	Main plant area	296
8	Green area	751.50
9	Toilet unit area	31.39
	Total area	3592

Environmental Setting of Project:

Particulars	Details
Locations	
A. Village	Meghnagar Industrial area
B. Tehsil	Meghnagar
C. District	Jhabua
D. State	Madhya Pradesh
Latitude Longitude	23°55'12.04" N 74°33'45.65" E
Height above mean sea level	312 mRL
Nearest National/ State Highway	Meghnagar – Ujjain – 0.3 km -N
Nearest Railway Station	Meghnagar – 2.74 km
Nearest Airport	Indore- 130 km
Nearest Town / City within 10k radius	Meghnagar – 2.74 km
Nearest village	Agral– 1.60 km - E
Nearest River	Anas River– 4 km– S
Nearest Hill Ranges	None within 10 km radius

Raw Material Requirement:

S. No.	Name of Raw Material	Consumption per month	Means of Storage	Mode of Transportation	Source of Supply
1.	Linear Alkyl Benzene	675	Tankers	By Road	M/s Relian Industries. M/s TIPL M/s IOCL M/s IPCL
2.	Sulphuric Acid	1015	Tankers	By Road	

Water balance:

Sr. No.	Particulars	Quantity (KL per day)
1	Domestic	05
2	Gardening	05
3	Industrial (for cooling & addition)	23
	Grand Total	**33**
Source: Fresh water requirement will be catered from AKVN water supply.		

OBSERVATIONS

The site is located in AKVN Industrial Area, Meghnagar and at present is in operation with existing production of SSP and GSSP. The project proposal is to install manufacturing plant for acid slurry (LABSA-90%).

During inspection it was observed that the unit was under shut down for maintenance operations since last two days and maintenance activities were underway during inspection in the in the SSP/GSSP unit .The housekeeping of the plant premises needs improvement as it was observed that product SSP was spilled out from the storage area at two places on the back side of the plant and the same was airborne with the air contributing fugitive emissions. It was informed to the team that approx. 2000 plants has been planted. The waste water generated from the scrubber is treated with lime and generated silica sludge is reused back in the SSP plant. As per the drainage pattern, in case of any accidental discharge from this plant, the liquid will

flow towards the FutTalab (750 meters away) and Pampa River (approx. 15 kms away).

As far as LABSA plant is concerned, PP has started erecting storage tank for LAB on the western side of the plant premises and the sulphuric acid will be stored in on existing tank. It was also observed during inspection that PP has also started erecting LABSA plant on the western side of the unit in an existing shed adjacent to the SSP/GSSP manufacturing unit with all the units such as acid and LAB storage tanks, reaction tanks, finish product storage tanks etc in place. The proposed location of the LABSA plant is also altered as during presentation for TOR, it was submitted by PP that the LABSA plant will be erected on the eastern side of the existing unit while above installation is done on the western side.

The inspection report was placed before the committee for discussion. Committee observed that PP has already started the construction of proposed LABSA plant which is evident from the above inspection report of sub-committee & photographs and is the violation of EIA Notification, 2006. Thus committee after deliberations decide that this case may be referred back to SEIAA for onward necessary action as per EIA Notification, 2006 and it's amendment issued vide S.O 804(E) dated 14.03.2017 "Process for appraisal of TOR/EC projects under violation of EIA Notification, 2006".

13. 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.) EIA Consultant: M/s WAPCOS LIMITED,*

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

Alternate site study:

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

Details of land coming under submergence of final proposal

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

Introduction & necessity

- Tarped Medium Irrigation Project is proposed on River Tarped near village Jaitupura of District Chhatarpur of MP and can be located at latitude $24^0$48'52" and longitude $79^0$23'40" on toposheet no. 54P/5,P/6 and P/9.
- The project is conceived to have a live storage capacity of 37.56 MCM to facilitate irrigation in 4300 ha of land presently under rain fed agriculture.
- Tarped River is a tributary of Dhasan River which joins the river Yamuna. It originates from Ragoli village of Chhatarpur district at EL 323 M & meets River Dhasan at EL 235 M. Total length (35 Km) & basin of river from origin to confluence is lies in Chhatarpur District of MP.

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

Water availability

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

Salient features of Tarped medium irrigation project

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

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

(14.1) Forest land	49.64Ha.(Revenue Forest)
(14.2)Private land	351.08 Ha.
(14.3)Govt. land	185.87 Ha.
(15) Annual Irrigation	4300 Hact.

Unit- 2 Canal

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

Cost of the project

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

Hydrology

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

After deliberations committee has approved the proposed TOR with inclusion of following additional points in the 139th SEAC meeting dated 29/08/2013 :

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

PP has applied for the extension of TOR validity which was considered in the 239th SEAC meeting dated 04/11/2015 wherein it is recorded that "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 recommends the case for extension in TOR for one year with validity up to 10/10/16".

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 in the 284th SEAC meeting dated 26/11/2016 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.

PP vide letter no. 27 dated 18/01/2017 has submitted the EIA report which was forwarded by the SEIAA vide letter no. 5058/SEIAA/17 dated 23/01/2017.

The case was presented by the PP and their consultant in the 287th SEAC Meeting dated 25/02/17. During presentation PP submitted that:

- They have obtained stage II FC clearance issued by GoI, MoEF&CC vide letter no. F-58/2014-FC dated 15/09/2016.
- Project envisages construction of a 28.25 m high earthen dam across Tarped River near village Bagha (Jaitupura), Chhatarpur district in Madhya Pradesh.
- Gross storage capacity of reservoir is 42.09Mcum.
- 75% dependable yield - 41.406 MCM.
- Total Catchment Area - 175 $Km^{2.}$
- Total Submergence Area - 667.562 ha.
- Annual Irrigation 4300 ha area in Chhatarpur district of M.P
- Total land required for various project components is of about 832.737 ha.
- About 667.56 ha of land is coming under submergence.
- About 137.913 ha land will be acquired for canal alignment.

- Cropped area would increase from in CCA is 4000 ha to 4300 ha.
- About 300 ha of additional area which at present is barren and would be cropped during project operation phase.
- Project would increase the agriculture production in the command area.
- Total budget of Rs. 6076.8 lacks are proposed against R&R plan of this project.

After presentation, PP was asked to submit information on following:

A. Site specific wild life management plan in consultation with forest department.
B. In the proposed monitoring schedule, monitoring of PM2.5 should be added and as discussed revised schedule with commensurate budgetary allocations should be submitted.
C. Impact of drastic change in cropping pattern in command area be explained.

PP has submitted the reply vide letter no. 27/Env/dhm/07/2013/762 dated 02/05/17 which was placed before the committee. Committee on perusal of the reply decided that PP may be asked to make a presentation of query reply in the subsequent meetings of the SEAC for further consideration of the project.

[A.A. Mishra]
Secretary

[Dr. R. B. Lal]
Chairman