STATE EXPERT APPRAISAL COMMITTEE **17th June 2017**
MINUTES OF 293rd MEETING

The 293rd meeting of the State Expert Appraisal Committee (SEAC) was held on 17th June, 2017 under the Chairmanship of Dr. R.B. Lal for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. U. R. Singh, Member.
2. Shri. K. P. Nyati, Member.
3. Shri Manohar K. Joshi, Member.
4. Shri R. Maheshwari, Member.
5. Dr. Mohini Saxena, Member.
6. 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. - 5416/2016 M/s Riddhi Siddhi Colours, 304, Agrawal Arcade, Opp. Central Mall Ambawadi, Ahmedabad (Guj.) – 380006 Manufacturing of Dyes & Dyes Intermediate at Plot No. 99-A, M.P. Audhyogic Kendra Vikas Nigam Ltd (AKVN), Tehsil - Meghnagar, Distt. - Jhabua, (M.P.) Proposed Capacity: Synthetic Organic Dyes [Liquid Direct Dyes] & [Direct Dyes] Capacity 125 MT per Month & Synthetic Organic Dyes [Disperse Dyes] Capacity 125 MT per Month Total Plot Area : 3000 Sq.mt. ha., Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates).**

   The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals, hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The proposed project is located at Plot No. 99-A, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

PROJECT SALIENT FEATURES

Project Proponent	M/s. Sri Riddhi Siddhi Colours
Project Name	Manufacturing of Dyes and Dyes Intermediates
Capacity	250 MT/Month
Estimated project cost	208.13 Lacs.
Coordinates & Address	Latitude: 22°54'48.17“ N, Longitude: 74°33'37.06“ E

	Plot no. 99/A, Audyogic Kendra Vikas Nigam Ltd. (AKVN), Taluka: Meghnagar, District: Jhabua, Madhya Pradesh, India.
Category & Schedule	5 (f) "B" as per EIA Notification, 2006
Total Plot Area	Total Area - 0.3 ha. (Green area - 0.099 ha. 33% of Total Plot Area)
Manpower Requirement	During Construction phase: 15 & During Operational phase: 10
Total Water Requirement	119 KLD (Source: AKVN Water Supply)
Waste Water Generation	53 KLD (Domestic: 8 KLD & Industrial: 45 KLD)
Power Requirement	200 KVA (Source: MPEB) 2 x 100 KVA DG Set as Stand-by

WATER REQUIREMENT

Sr. No.	Type of use	Fresh Water Consumption (KLD)	Recycle Water Consumption (KLD)	Total Water Consumption (KLD)	Waste Water Generation (KLD)
1	Domestic	10	-	10	8
2	Gardening	5	3	8	0
3	Industrial				
	Process	41	31	72	40
	Boiler	10	10	20	0.8
	Cooling Tower	4	-	4	0.2

	Others (Scrubbing, Washing etc.)	5	-	5	4
	Total (Industrial)	60	41	101	45
	Total (1+2+3)	75	44	119	53

ENVIRONMENTAL SETTINGS

r. No.	**Particulars**	**Details**
1.	Climate conditions	Annual Mean Maximum Temperature: 34 °C Annual Mean Minimum Temperature: 21°C Annual Mean Maximum Rainfall: 720 mm
2.	Present land use at the location	Industrial Area
3.	Nearest Village	Bedwali (0.65 km, W)
4.	Nearest Town/City	Meghnagar City (1.9 km WSW)
5.	Nearest Railway Station	Meghnagar Railway Station (2.1 km, WSW)
6.	Nearest Hospital	Jivan Jyoti Hospital (2.04 km, West)
7.	Nearest Highway	MP-SH 39 (0.4 km, WNW)
8.	Nearest Airport	Indore Airport (130 km, East)
9.	Nearest Water Body	Anas River (3.8m km, SSE)
10.	Nearest Port	None in 10 Km radius

11.	Hills / valleys	None in 10 Km radius
12.	Ecological Sensitive Zone within 10 km distance	None in 10 Km radius
13.	Historical/ Archaeological Places	None in 10 Km radius
14.	National Park/ Wild life Sanctuary	None in 10 Km radius
15.	List of Mojor Industries (within 10 km radius)	1. API India Biotech Pvt. Ltd. 2. Madhya Bharat Phosphate Ltd. 3. Parth Rasayan Pvt. Ltd. 4. SR Ferro Alloys. 5. Padmavati Minerals.
16.	Seismic Zone	Zone-III according to the Indian Standard Seismic Zoning Map

The case was presented by the PP and their consultant in 282nd SEAC meeting dated 10/10/2016 wherein committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out & presented so as to achieve 'Zero liquid discharge' from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products with their storage plan.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted along with the plan of handling in case of spillage of any chemicals.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed threshhold limits.

11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Details of solvent recovery system should be provided in the EIA report.

PP has submitted the EIA report vide letter dated 11/05/2017 which was forwarded by the SEIAA vide letter no. 529 dated 24/05/17.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. Since this plant is located in Meghnagar Industrial Area, Committee also decided to carryout site visit of this project as per the policy decision of SEIAA taken in 250th SEIAA meeting dated 14/10/2015 stating that SEAC should also make a site visit before recommending the cases of Chemical Plants to SEIAA.

2. Case No. – 5571/2017 Executive Engineer, M.P. Housing & Infrastructure Development Board, Div. No. - 2, Deendayal Nagar, Gwalior, (M.P.) -474005 Prior Environment Clearance for Integrated Township - Mixed Used Development Project "Surya Nagar, Gwalior" at Village - Laxmangarh & Baretha, Tehsil & Dist. Gwalior, (M.P.) Total Plot Area – 230590 Sq. Mt. (23.06 ha.), Total Built up Area – 144535. 87Sq. Mt. Building Construction. Env. Consultant- In Situ Enviro Care, Bhopal (M.P.).

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

EXECUTIVE SUMMERY

The proposed site has three distinct elements – (1) Commercial development in form of Transport Nagar (as per Gwalior Development Plan 2021) on 3.4465 Ha area; (2) 1.2714 Ha area forms part of 30 m wide proposed Development Plan Road (which once constructed will connect the site to Gola Ka Mandir and AH-43) and (3) 18.341 Ha area under Residential land use. The current approach to the site is through 7.5m wide PMGSY road which emerges from NH-92. In order to have a proper site connectivity, MPHIDB has been allotted Khasra No. 322/1 which will help connecting the site to AH- 43 through provision of 18m wide road. It is proposed to

widen the existing 7.5m wide PMGSY road to 18m on the road stretch which passes through the MPHIDB site.

The planning philosophy for the site is therefore based on the 18m wide approach road; 30m wide Development Plan road and segregation of commercial development in form of transport nagar and residential activities. It is proposed to have separate entry/exit points for commercial development as transport nagar and residential use zones. The notion of neighborhood means the place where people live. The neighborhood represents an intermediate space between the housing and the surroundings – a practical device that allows the link between what is the most intimate (the private space of the housing) and what is required in the surroundings for better quality of life. It is an entity that is spatially and socially shows a collective unity of life; a place of relationships and specific social practices, connected by proximity; or a space of life defined by the behavior of the inhabitants.

The concept of neighborhood leads to gated communities which comprise physical areas that are fenced or walled off from their surroundings. The entrance to these areas is controlled by means of gates or similar physical barriers. Gated communities are by nature separate and enclosed areas, being isolated from the broader urban environment and enclosed through physical barriers. Besides ensuring safety and security of the residents, the gated communities enable a specific lifestyle of a group within the enclosed area. Gated communities reflect an urban entity that is physically (often socially and economically) differentiated from the surrounding urban environment. It is envisaged to plan the Surya Nagar area as gated communities.

LAND USE PLAN

As stated earlier, the area under Surya Nagar has two distinct elements – (1) Commercial development in form of Transport Nagar (as per Gwalior Development Plan 2021) on 3.4465 Ha area; (2) 1.2714 Ha area forms part of 30 m wide proposed Development Plan Road (which once constructed will connect the site to Gola Ka Mandir and AH-43) and (3) 18.341 Ha area under Residential land use. In order to provide a good access to the site, it is proposed to widen the existing 7.5 m wide PMGSY road to 18 m. For this purpose 0.6124 Ha land would be required thus leaves 17.1728 Ha land for development of residential neighborhoods. Further as the two developments viz. commercial development in form of transport nagar and residential neighborhoods have totally different character; it is therefore thought that these two areas should be kept segregated and be planned independent to each other.
The site is located is close proximity to Gwalior airport which is primarily an Indian Air Force base. In view of the strategic importance of the airport, the Master Plan 2021 for Gwalior has defined an airport regulation zone within a radius of 4 km from the airport wherein only 6m high buildings are permitted. Substantial portion (14.21

Ha (61.62%) out of total area of 23.059 Ha) of the proposed site fall under the airport regulation zone.

Name of the Project	INTEGRATED TOWNSHIP MIXED USE DEVELOPMENT AT SURYA NAGAR GWALIOR OF MPHIDB GWALIOR
Location	Village – Baretha & Laxmangarh, Tehsil & District – Gwalior
Name & Address of Applicant	Mr. P.K. Hedau – Executive Engineer M.P.H & IDB, Div. No. 2, Deen Dayal Nagar, Gwalior
Coordinates of Site	26°18'17.45"N, 78°15'47.95"E
Toposheet No.	54 J/7
Topography	Almost Flat
Climate	Sub – Tropical (Generally dry except Monsoon Season)
Annual Avg. Temperatures	Max. – 33.50C, Min. – 16.60C
Annual Average Rainfall	910 mm
Relative Humidity	45% Min. & 85% Max.
Annual Dominant Wind	NW
Railway Station	15 Km. (Approx.)
Air Port	4 Km. (Approx.) Air force base
Total Plot Area	230590 Sq. Mt. (23.06 Hect.)
Net Planning Area for Mixed Used Development Project	177285.13 Sq.mt. (17.73 Hect.)
Proposed Built–Up Area	144535.87 Sq.mt.
Total no. of units	Multi Unit LIG – 112 Nos. Sr. LIG – 256 Nos. MIG – 176 Nos. Jr. HIG – 128 Nos. HIG – 240 Nos. Multi Unit EWS – 96 Nos. Plots – 402 Nos. LIG Plots – 9 Nos. EWS Plots – 17 Nos. Commercial Unit – 4 Blocks of 2 floors each Community Hall – 1 No. Primary School – 1 No. MPEB office – 1 No. Suvidha Kendra – 1 No.
Height of building	24 M. (Maximum)
Road width / MOS	For Multi 15/8/8 M. For Duplex 9/9/7.5 Commercial 9/4.5/4.5
Expected Population	6999 Occupants & 2652 Floating Population
Water requirement	1173 KLD
Source of Water Supply	GMC/PHE Water supply
STP Capacity	872 KLD on 100% Load & 900 KLD Proposed
Parking Provided	For Multi Unit – 846 ECS For Plots – 402 ECS (Individual) For Commercial – 144 ECS

Power requirement	5068 KW
Solar Panel	Proposed for Common Area lighting (Garden & Road Area) Under Planning.
Source of Power	MPEB
Backup Power Source	2 No. DG with proposed (600 KVA each)
Solid Waste Generation	3.944 TPD

The case was presented by the PP (Shri Pradeep Hadao, EE) and their consultant wherein PP informed that >60% of the project falls within the 04 Kms restricted area due to airport and considering restrictions the maximum building height is proposed as 06 meters and the area which is beyond the restriction, 24 meter high buildings are proposed. PP further submitted that the project does not lie in the funnel area of the airport. The total fresh water requirement will be 1173 KLD. After presentation PP was asked to submit response on following:

1. NOC from airport authority should be obtained as >60% part of the project lies within the restricted 04 Kms radius of the airport which is also used by the air force or master plan details clearly indicating the restrictions of area and height due to proximity of airport.
2. As per MoEF&CC OM dated 22/12/2014, other service areas reserved for all the other facilities such as STP, MSW collection & storage should be added in the total built up area and same should be submitted to ascertain the total construction area.
3. A natural drain is passing through and near the eastern side of the project boundary thus protection plan of this natural drain be submitted considering HFL of the natural drain.
4. Proposed project is divided in to three different blocks which are distinctly apart and only one STP is proposed where a master plan road is also bifurcating the project site. Thus PP should justify how entire sewage will be diverted to one STP considering the drainage pattern of the site.
5. Revised plantation scheme with enhance number of trees as suggested by the committee.
6. Revised EMP commensurate to revised plantation scheme.

3. <u>Case No. - 2192/2014 Shri Gourav Khandelwal, Partner, M/s Siddhivinayak Enterprises, Teacher Colony, Rambhalpur Road, Meghnagar, Jhabua (M.P.) - 457779. Prior Environment Clearance for approval of proposed expansion of unit for Organic intermediate manufacturing at Industrial Area at Vill.-</u>

Meghnagar, District-Jhabua (M.P.) Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drug). Env. Consultant: Not disclosed.

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features of the project before the committee in the 188th SEAC Meeting dated 02/05/15. The presentation and the submissions made by the PP reveals following:

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

Project location

The proposed project site is located at Plot No. 30, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua. The approximate geographical positioning of the project site is at Latitude: 22°55’10.5168”N Longitude: 74°33'30.351”E.

Water consumption

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

Waste water generation

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

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

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out presented with details of the proposed 'Zero liquid discharge' claim.
3. Product-wise material and solvent balance
4. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products hard-copies to be furnished.
5. Details of all the scrubbing agents to be furnished.

6. The fly-ash from boiler is proposed to be supplied to the brick manufacturers; the qualitative analyses report of the ash to be furnished from the already operating similar units.
7. The EIA has to be prepared by an accredited consultant only.
8. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
9. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
10. Details of storage of each product & raw material.
11. Detailed lay-out with adequate green area.
12. Plan for prevention of waste water percolation into the ground water to be submitted.
13. Ground-water study shall be carried out in the region including the water table and the quality.
14. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

The TOR was approved in the 188th SEAC meeting dated 02/05/2015. The PP and their consultant presented the EIA in this meeting and after discussions PP was asked to submit response to the following queries:

1. The quantity of fly ash generated should be submitted corresponding to the fuel used.
2. Storage of product in the plant premises along with their compatibility study be submitted.
3. During discussion it was suggested that generated iron sludge and gypsum sludge should be disposed off in the CTSDF, Dhar for which PP should submit commitment.
4. Liners of containers should be disposed off in CTSDF, Dhar for which PP should submit commitment.
5. Ground water table data of the study area should be submitted as per the TOR.
6. PP should also submit a declaration regarding no construction/development activity under taken at the project site which so far has not been submitted along with the certification of the consultant that no construction or production activity at this site for the proposed products has been taken.

7. Surface water monitoring is carried out only at two locations thus PP was asked to carryout additional surface water monitoring for winter season at least four more locations covering two nearby ponds (one named as amlipather pond).
8. In EIA where ever, the concentration of pollutants exceeds the prescribed limits, justification along with mitigation measures suggested which is missing in this case. Thus PP was asked to submit the same with revised EMP addressing above.

Committee also proposes site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 th. SEIAA meeting dated 14/10/2015) and after site visit, if required, PP may also be called for discussion/presentation on issues that emerge during site visit.

Site Visit Report was discussed in the 256th SEAC Meeting dated 03/01/2016 which is as follows:

BACKGROUD

The TOR was issued to this unit in the 188th SEAC meeting dated 02/05/2015 and EIA presentation was made by the PP in the 245th SEAC meeting dated 09/12/2015 wherein it was decided to carryout site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 th. SEIAA meeting dated 14/10/2015) and after site visit if required, PP may also be called for discussion/presentation on issues raised at the time of site visit.

As decided, Shri K. P. Nyati, Member SEAC and Shri R. Maheshwari, member SEAC visited the site on 20/12/2015. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer MP Pollution Control Board, Bhopal and Shri Gaurav Khandelwal, PP were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Hemant Sharma, and Shri AK Bisen EE accompanied the SEAC team to the site.

Project location

This unit is located at Plot No. 30**, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua and 0.5 Kms from Ghosliya bada Village. The approximate geographical positioning of the project site is at Latitude: 22°55’10.55”N, Longitude: 74°33'30.45”E.,

The unit is manufacturing Magnesium Sulphate, Manganese Sulphate and Phospho Gypsum. The existing production capacity is 500 MT/year and now, the unit has proposed expansion for manufacturing of Dye Intermediates to the tune of 600

MT/Year. Thus, the total production capacity will be 1100 MT/Year. The total plot area is 2346.24 sq. m. with following details:

SL.No.	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	772	32.90
2.	ETP Area	450	19.18
3.	ETP Expansion area	200	08.5
4.	Green Belt Area	704	30
5.	Finished Goods Storage Area	120	5.1
6.	Open Space Area	210	8.95
7.	Road Area	150.24	6.39
	TOTAL	2346.24	

The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

During site visit, it was observed that two reactors and three mixers are in existence under a shed in the plant premises with one tank for storage purposes. No industrial operations were being carried out at the time of inspection. As informed, the unit earlier has obtained consent to operate on dated 26/07/2012 (consent to establish on 14/11/2013) from the M. P. Pollution Control Board for manufacturing of Acid slurry. Later on unit has obtained consent to establish and consent to operate from the board as expansion for manufacturing of Manganese Sulphate and Phospo Gypsum to the tune of 500 MT/Annum on dated 14/11/2013 and 07/12/2013 respectively. Neither any process residues nor waste materials of earlier production were stored on the site/plant premises, however the remains of it were observed on the premises soil which also appears to be freshly spread with gravel and its some

portion freshly concreted. PP was also unable to explain how these materials were disposed off. No documentary evidences were produced by the PP for the disposal of above wastes even when demanded by the committee. PP also failed to produce the details of products manufactured earlier.

RECOMMENDATIONS

Following are the recommendations:

1. Since necessary details are not provided during site inspection, thus PP may be asked to provide following details:-
   a. The list of equipment and machineries with year of installation of each one of them after 26/07/2012 from date of consent to establish obtained from M. P. Pollution Control Board.
   b. The product-wise monthly production details from 2012 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
   c. The product-wise monthly consumption of raw materials from 2012 till date.
   d. Copies of consent and authorization under HW (M, H & TBM) Rules, 2008 obtained from M. P. Pollution Control Board.
   e. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
   f. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
   g. Details of hazardous wastes with their respective quantities generated since 2012 and their mode of disposal with documentary evidences.
   h. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.
2. Regional Officer, M. P. Pollution Control Board, Dhar may also be asked to provide details of any notices/directions issued to the company and compliance

report of consent conditions issued for earlier products. Similarly, analysis reports of waste water and any other solid/hazardous wastes collected from the premises of the unit, if any.

PP vide letter no. 512 dated 02/03/2016 was asked to submit the above information for further consideration of the project but till date no information is submitted by PP. The above case was placed before the committee as PP has not submitted the desired information since long. The committee in 288th SEAC meeting dated 30/03/2017 observed that since PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information and pending since long.

SEIAA on request of PP relisted the case and forwarded the case file to SEAC vide letter no. 540 dated 29/05/17 and thus the case was placed in the agenda.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

4. <u>Case No. - 2193/2014 Shri Mahesh Prajapati, Partner, M/s Devansh Trading Company, Dashara Maidan, Meghnagar, Jhabua (M.P.)-457779 Prior Environment Clearance for approval of proposed expansion for manufacturing of Dye Intermediates at Industrial Area at Vill.-Meghnagar, District-Jhabua (M.P.). Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates).</u>

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. Pp and his consultant presented the salient features of the project before the committee in the 188th SEAC Meeting Minutes dated 02rd May 2015. The presentation and the submissions made by the PP reveals following:

- This is an existing unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- The unit is manufacturing Ammonium Sulphate, Iron Sulphate, Sodium Sulphate and Phospho Gypsum .
- Existing production capacity is 500 MT/year as per CCA No. AW-23182.
- Now, the unit has proposed expansion for manufacturing of Dye Intermediates.
- Proposed capacity for manufacturing of Dye Intermediates are 600 MT/Year.
- Thus, total capacity for manufacturing is 1100 MT/Year.
- The expected cost of proposed expansion is Rs.80 Lacs.
- The total plot area is 3203 sq. m.
- The planned green belt area will be 961 sq.m. i.e. about 30% of total area.

Project location

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

Water consumption

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

Waste water generation

Category	Waste Water Generation (KL/Day)
Domestic	3
Industrial	
Process	5

Washing	5
Boiler	2
Cooling	2
Total(Industrial)	14
Total (Industrial + Domestic)	17

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

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out & presented so as to achieve 'Zero liquid discharge' from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed thresh-hold limits.
11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

The TOR was approved in the 188th SEAC meeting dated 02/05/2015. The PP and their consultant presented the EIA in this meeting and after discussions PP was asked to submit response to the following queries:

1. The quantity of fly ash generated should be submitted corresponding to the fuel used.

2. Storage of product in the plant premises along with their compatibility study be submitted.
3. During discussion it was suggested that generated iron sludge and gypsum sludge should be disposed off in the CTSDF, Dhar for which PP should submit commitment.
4. Liners of containers should be disposed off in CTSDF, Dhar for which PP should submit commitment.
5. Ground water table data of the study area should be submitted as per the TOR.
6. PP should also submit a declaration regarding no construction/development activity under taken at the project site as the same has not been submitted so far. A certification of the consultant that no construction or production activity at this site for the proposed products has been taken also to be submitted.
7. Surface water monitoring is carried out only at two locations thus PP was asked to carryout additional surface water monitoring for winter season at least at four more locations covering two nearby ponds (one named as amlipather pond).
8. In EIA where ever, the concentration of pollutants exceeds the prescribed limits, justification along with mitigation measures suggested which is missing in this case. Thus PP was asked to submit the same with revised EMP addressing above.

Committee also proposes to undertake site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 the. SEIAA meeting dated 14/10/2015) and after site visit if required, PP may also be called for discussion/presentation on issues emerging during site visit.

Site Visit Report was discussed in the 256th SEAC Meeting dated 03/01/2016 which is as follows:

The TOR was issued to this unit in the 188th SEAC meeting dated 02/05/2015 and EIA presentation was made by the PP in the 245th SEAC meeting dated 09/12/2015 wherein it was decided to carryout site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 th. SEIAA meeting dated 14/10/2015) and after site visit if required, PP may also be called for discussion/presentation on issues raised at the time of site visit.

As decided, Shri K. P. Nyati, Member SEAC and Shri R. Maheshwari, member SEAC visited the site on 20/12/2015. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer MP Pollution Control Board, Bhopal and Shri Mahesh Prajapati, PP

were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Hemant Sharma and Shri AK Bisen, EE accompanied the SEAC team to the site.

Project location

This unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua and 0.5 Kms from Ghosliya bada Village. The approximate geographical positioning of the project site is at Latitude: 22°54'20.7"N, Longitude: 74°33'16.8"E.
The unit is manufacturing Ammonium Sulphate, Iron Sulphate, Sodium Sulphate and Phospho Gypsum. The existing production capacity is 500 MT/year and now, the unit has proposed expansion for manufacturing of Dye Intermediates to the tune of 600 MT/Year. Thus, the total production capacity will be 1100 MT/Year. The total plot area is 3203 sq. m. with following details:

SL.No.	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	910	28.4
2.	ETP Area	500	15.5
3.	ETP Expansion area	332	10.4
4.	Green Belt Area	961	30
5.	Finished Goods Storage Area	140	4.4
6.	Open Space Area	210	6.6
7.	Road Area	150	4.7
	TOTAL	3203	

The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

During site visit, it was observed that two reactors and two mixers are in existence under a shed in the plant premises with three tanks for storage purposes. No industrial operations were being carried out at the time of inspection. As informed, the unit earlier has obtained consent to operate on dated 09/12/2013 (consent to establish on 14/11/2013) from the M. P. Pollution Control Board for manufacturing of Ammonium Sulphate, Iron sulphate, Sodium Sulphate and Phospo Gypsum to the tune of 500 MT/Annum. Neither any process residues nor waste materials of earlier production were found stored on the site/plant premises, however the remains of it were observed on the premises soil which also appear to be freshly spread with gravel. PP was also unable to explain how those materials were disposed off. No documentary evidences were produced by the PP for the disposal of above wastes even when demanded by the

committee. PP also failed to produce the details of products manufactured earlier.

RECOMMENDATIONS

Following are the recommendations:

1. Since necessary details are not provided during site inspection, thus PP may be asked to provide following details:-

a. The list of equipment and machineries with year of installation of each one of them after 14.11.2013 from date of consent to establish obtained from M. P. Pollution Control Board.
b. The product-wise monthly production details from 2013 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
c. The product-wise monthly consumption of raw materials from 2013 till date.
d. Copies of consent and authorization under HW (M, H & TBM) Rules, 2008 issued by the M. P. Pollution Control Board.
e. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
f. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
g. Details of hazardous wastes with their respective quantities generated since 2013 and their mode of disposal with documentary evidences.
h. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.

Regional Officer, M. P. Pollution Control Board, Dhar may also be asked to provide details of any notices/directions issued to the company and compliance report of consent conditions issued for earlier products. Similarly, analysis reports of waste water and any other solid/hazardous wastes collected from the premises of the unit, if any.

PP vide letter no. 510 dated 02/03/2016 was asked to submit the above information for further consideration of the project but till date no information is submitted by PP. The above case was placed before the committee as PP has not submitted the desired information since long. The committee in 288th SEAC meeting dated 30/03/2017 observed that since PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per

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

SEIAA on request of PP relisted the case and forwarded the case file to SEAC vide letter no. 542 dated 31/05/17 and thus the case was placed in the agenda.

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

5. Case No. - 5568/2017 M/s Amba Shakti Upyog Ltd, Plot No. 44 & 47, AB Road, Industrial Area Banmore, Dist. Morena, (M.P.) – 476444 Prior Environment Clearance for Capacity Expansion from 150000 TPA of TMT Bar 200000 TPA of Billets 50000 TPA of Steel structure to Billets: 360000 TPA, TMT Bars : 300000 TPA, Steel Structure : 60000 TPA at Plot No. 44 & 47, AB Road, Industrial Area Banmore, Distt. - Morena, (M.P.) Cat. 3 (a) Metallurgical Industries (ferrous & non ferrous). For- ToR. Env. Consultant: CES, Bhopal.

This is a rolling mill project. All non –toxic secondary metallurgical processing industries manufacturing >5000 tones/annum metal components are covered under the EIA Notification 2006 as amended 2009 and are mentioned at SN 3(a), B. Hence these projects are required to obtain prior EC before establishment.

Salient features of the project

S. No.	Particulars	Details
1	Project	To Obtain Terms of Reference for Capacity Expansion in Production of MS Billets, MS/TMT Steel bars
2	Existing Capacity	Billets = 2,00,000 TPA TMT Bars = 150000 TPA Steel Structure = 50,000 TPA
3	Proposed Capacity	Billets = 3,60,000 TPA TMT Bars = 3,00,000 TPA Steel Structure = 60,000 TPA
4	Total Power requirement	25 + 8 = 33 MW

<table>
<tr><td>5</td><td>Total Land available</td><td colspan="4">60704 sq.mt. + 22047.16 sq.mt = 82751.16 sq.mt</td></tr>
<tr><td>6</td><td>Raw material required after Expansion</td><td colspan="4"><table>
<tr><th>Name</th><th>Existing quantity TPA</th><th>Proposed Quantity TPA</th><th>Total</th></tr>
<tr><td colspan="4">For Induction Furnace</td></tr>
<tr><td>Pig iron</td><td>22000</td><td>15500</td><td>37500</td></tr>
<tr><td>Scrap</td><td>87000</td><td>103000</td><td>190000</td></tr>
<tr><td>Sponge Iron</td><td>108700</td><td>59300</td><td>168000</td></tr>
<tr><td colspan="4">For Billet Caster (CCM)</td></tr>
<tr><td>Hot Metal from IF</td><td>2,00,000</td><td>160000</td><td>360000</td></tr>
<tr><td colspan="4">For Rolling Mill</td></tr>
<tr><td>TMT Bar</td><td>150000</td><td>150000</td><td>3,00,000</td></tr>
<tr><td>Structure (Angle and Channel)</td><td>50000</td><td>10000</td><td>60000</td></tr>
</table></td></tr>
<tr><td>7</td><td>Source of Power</td><td colspan="4">MP Electricity Board</td></tr>
<tr><td>8</td><td>Water Requirement</td><td colspan="4">Existing – 500 Proposed - 100 Total = 600 KLD</td></tr>
<tr><td>9</td><td>Source of Raw water</td><td colspan="4">AKVN Supply</td></tr>
<tr><td>10</td><td>Major Equipments</td><td colspan="4">Induction Furnace
Existing -2 Proposed -1 Furnace Rolling Mill-1
& CCM, TMT Rod Rolling Mill, etc</td></tr>
<tr><td>12</td><td>Number and Height of Stack</td><td colspan="4">At Induction furnace , Height 30 Mt</td></tr>
<tr><td>13</td><td>Pollution control equipment</td><td colspan="4">Spark arrestor (2+1=3 No.), Bag Filter (2+2= 4No.), ID fan (2+2 =4No) Chimney (1+1 =2 No.)</td></tr>
<tr><td>14</td><td>Level of particulate Matter after APC</td><td colspan="4">Less than 50 mg /NM^3</td></tr>
<tr><td>15</td><td>Cost of Pollution Control Equipments</td><td colspan="4">Rs.135.75 + 60 = 195.75 Lacs</td></tr>
<tr><td>16</td><td>Number of employment generation</td><td colspan="4">300 +60 =360 persons</td></tr>
<tr><td>17</td><td>DG Set</td><td colspan="4">Existing 500 KVA Proposed-1</td></tr>
</table>

18	Fuel proposed to be used	Electricity
19	Slag Crusher Unit	50 TPD (Iron recovery from slag)
20	RO Plant	10 KLD
21	Fund for CSR activities	As per Guideline
22	Previous Env. Clearance	3500/SEIAA/2015/14/07/2015

- No ecologically protected area or archeologically protected site or other environmental sensitivity has been reported within 10 km radius of the site. Industry has obtained NOC in this regard from DFO
- No interstate boundary is lying within 10 km radius from the site.

Land break Up:

PARTICULARS	**Existing Area (In Sq. Mt.)**	**After Expansion(In Sq.Mt.)**
Build Up Area	26724	28750
Road Development	10900	10900
Water Storage Area	800	1056
Fuel Storage Area	50	50
Green Belt	16600	21813.38
Lawn & Greens	3560	5660
Open Land	2070	14521.78
Total Area	**60704**	**82751.16**

Environmental Setting Of Project

S. No.	**Particulars**	**Details**
1	Latitude	26°21’47.15’ - 26°21’59.55’ N
2	Longitude	78°.05’0.69’’ - 78°05’17.97’E
3	Height above mean sea level	188-182m
4	Nearest Town	Banmore - 0.5 Km - SSE
5	Nearest Railway Station	Banmore – 1.5km - SE

6	Nearest Airport	Gwalior - 16 km
7	Nearest Highway/Road	NH-3 - Adjoining - E
8	Hills/Valley	None
9	Ecological Sensitive Zone	None
10	Reserve Forest	Sanicharara RF - 4.0km - NE Bamur Basai RF - 3.0km - W Kulaith RF - 6.0km - SW
11	Historical Place	None
12	Nearest River/ Nalla	Sank Nadi - 0.25km - W Sonrekha River - 3.50km - ENE Auruwa Nalla - 1.0km - E Khiraoli Reservoir - 4.40km - NE
13	Surrounding Features	North : Prabhu Stone & Open Land South : Vectus & Open Land East : NH-3 West : Open Land

Raw material requirement

Raw Material	**Existing (TPA)**	**Proposed (TPA)**	**Source**	**Mode of Transportation**
Induction Furnace.				
Pig Iron	22000	37500	Chattishgarh, Orissa	By Road
Scrap	87000	190000	Domestic + Import	By Road
Sponge	108700	168000	Domestic	By Road
Billet Caster (CCM)				
Hot metal produced from induction furnace division	200000	360000	In House	-
Rolling Mill				
TMT bar	150000	300000	In-house + Market	
structure (Angle & channel)	50000	60000	In house + Market	By Road
Outsource purchase of billets shall be about 3% (approx.)				

The case was presented by the PP and their consultant wherein consultant submitted that it's a case of expansion where one additional rolling mill and one additional induction furnace will be installed. The plant is in operation since 2015 and the base line data collection has been started by them. After presentation, committee decided to recommend standard TOR prescribed by MoEF&CC with following additional TOR:

1. Existing sponge iron and scrap storage area with provisions for expansions should be discussed in EIA report with layout map.
2. Detailed traffic movement study and traffic management plan should be discussed in the EIA report.
3. Oil and Grease trap should be proposed in the ETP and details of proposed and existing ETP be provided in the EIA report.
4. COC of cooling tower be discussed in the EIA report.

6. Case No. – 5570/2017 M/s Sun Pharmaceutical Industries Ltd, K-5, 6, 7 & 10, Ghirongi Industrial Area, Malanpur, Distt. -Bhind, (M.P.) – 477117 Prior Environment Clearance for Expansion of API (Penems) & Intermediate Manufacturing facility at K-5, 6, 7 & 10, Ghirongi Industrial Area, Malanpur, Dist. Bhind, (M.P.) Proposed Capacity – 110 TPA,Land Area – 10.928 Acres (4.4225 ha./44225 m2)Cat. - 5(f) Project Synthetic Organic Chemicals Industry (bulk drug). Env. Consultant: EEPL, Kolkota.

The project is a Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drug). 5(f) Synthetic Organic Chemicals Industry (As per EIA notification dated 14th September 2006 and amended to the date) and involves environmental clearance. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Project History

The Plant had started its operations since 1995 with name M/s Cardinal Drugs Ltd. for production of bulk drugs with valid EC with the production capacity approval of 71.4 TPA, As the company took over by M/s Ranbaxy limited in year 2006 & later at 2015 M/s Ranbaxy limited amalgamated with M/s Sun Pharmaceuticals Industries Limited.

M/s Sun Pharmaceuticals Industries Limited has taken the 'Consent to Operate' for Air and Water from Madhya Pradesh Pollution Control Board with consent no. AW-45775, with validity up to 31/08/2017 along with the consent for the Hazardous Waste

(Management, Handling & Transboundary Movement) Rules, 2008, with consent no. H-45451, Valid till 30/06/2021. The company is also having the TSDF membership for the disposal of hazardous waste valid till 31.03.18.

In the year 2008 the M/s Ranbaxy applies to the CTO & receives the CTO with specific condition in which it mentioned to install the Multi Effect Evaporator (MEE), to upgrade the pollution control facility & to ensure the solvent recovery not less than 95%. MPPCB asked the Site to obtain EC in 2013. Accordingly, an application for EC was filed with the name of M/s Ranbaxy Limited in the year 2014-2015. Now M/s Sun Pharmaceuticals Industries Limited applying for the grant of EC with the present ownership name along with proposed expansion for production capacity of 110 TPA for API (Penems) & Intermediate.

Project Location & Connectivity

The project is located over the land which comes under the notified industrial area of Ghirongi, Malanpur and lies between latitude 26° 21' 43.88" N to 26° 21' 52.52" N and longitude 78° 16' 48.32" E to 78° 16' 58.90" E. having elevation of 567 meters above sea level. The project is located in plot no. K-5, 6, 7 & 10 Ghirongi Industrial Area, Malanpur, Taluka Gohad, District Bhind. The site is well connected with NH-92 which is about 1.1 km from the project site. The nearest railway station is Malanpur Railway Station which is 3.7 km from the site in W direction. Nearest Airport –Gwalior; (Rajmata Vijayraje Scindia Airport) About 7.7 km in S direction.

The site is already under possession of M/s Sun Pharmaceutical Industries Limited and comes under the notified industrial area of Ghirongi, Malanpur, Taluka Gohad, District Bhind. The distance of Mowai Dam is about 3 km in SSW direction and Kotiwal Reservoir is about 19.8 km in NW direction. The famous BalaJi Temple (Baretha)-Temple-About 5.5 km in S direction & the famous Sun Temple about 15.3 km in SW direction.

Project Details

The project occupies Total Plot Area of 10.928 Acres/ 4.4225 ha / (44225 m^2) and involve in business of manufacturing of Intermediate & APIs-Penems, having a capacity of manufacturing of 110TPA after proposed expansion of APIs (Penems) and it's Intermediates, with annual turnover of Malanpur unit approx. Rs. 50.29.2 Cr. Per Year as per March 2016. The total fixed cost of the project is INR 57.6 Cr. as per the company gross book value as on 22/02/2017.

The major facilities involved area Boiler, MEE, ATFD, Solvent recovery Plant, Solvent storage area, reactors, Cooling towers, Effluent treatment plant (ETP), and R.O Plant Facilities like administrative office, parking and greenbelt/plantation also developed as per plan/requirement

The total water requirement for the project after the proposed expansion will be approx. 160 KLD which will be sourced from surface water supplied by IIDC-Gwalior and from bore well. The company is authorized to use 100 KLD of surface water supplied by IIDC and 20 KLD from bore well thus the company is authorized to use 120 KLD water. M/s Sun Pharmaceutical Industries Limited already applied to IIDC for the grant of extra 33% of water. The entire wastewater shall be treated in the 100 KLD capacity ETP and the treated water will be used for cooling towers, floor washing and gardening/green belt.

Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016). M/s SUN Pharmaceutical Industries Ltd has taken the authorization Under Hazardous Waste (Management, Handling & Transboundary Movement), Rules, 2008 from MP PCB (valid till 30/06/2021). Company is also having the membership of authorized TSDF facility for the disposal of hazardous waste (valid till 31/03/18)

Power requirement will be sourced from existing line of "Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company". The company is already authorized to use power load of 900KVA on 33KV line & no additional power load will be required for proposed expansion as the company is running under load. In case of power failure, D.G. set will be used as a backup power source.

The M/s Sun Pharmaceutical Industries Ltd hired a total manpower of 250 who will be from, Gwalior and nearby villages/area and therefore no residential planning has been incorporated.

The case was presented by the PP and their consultant wherein PP submitted that proposal is for expansion with production capacity of 110 TPA and the plant is in operation since 1995. After presentation, committee decided to recommend standard TOR prescribed by MoEF&CC with following additional TOR:

1. Compliance of earlier EC conditions duly authenticated by the competent authority of MoEF&CC.

2. PP should provide entire product mix in the EIA report.
3. Worst case scenario w.r.t. waste water and hazardous waste should be submitted.
4. Details of solvents and their recovery plan should be discussed in the EIA report.
5. VOC should be monitored in the AAQ.
6. All MSDS should be provided with the EIA report.
7. Industry has to comply with zero discharge for which necessary details should be provided in the EIA report.

7. 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.) Revised TOR Recommended in 290th SEAC Meeting dated 22/05/17. Revised TOR issued vide letter no. 352 dated 01/06/17 Valid up to 21/05/2020. EIA Consultant- Vardan Environet Gurgaon (Haryana).

The project is a Synthetic Organic Chemicals Industry (bulk drug). 5(f) Synthetic Organic Chemicals Industry (As per EIA notification dated 14th September 2006 and amended to the date) and involves environmental clearance. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

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 in the 290th SEAC meeting dated 22/05/2017 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	1200 MT/A

	Isonipecotic acid	
	Azacyclonol	
	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	
	Pyrazonic acid	200 MT/A
	Propionic acid and its derivatives	
	Chromium propionate	
	Zinc propionate	
	Iron Propionate	200 MT/A
	Methionate derivatives	
	L- Selenomethinine	
	Chromium methionate	
	Tertery Butyl copper chloride	200 MT/A
		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 w.r.t. 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.

PP has submitted the EIA report vide letter dated 06/06/2017 and the same was forwarded by SEIAA vide letter no. 693 dated 12/06/2017 and thus the case was placed in the agenda.

The case was presented by the PP and their consultant wherein PP submitted that this will be zero discharge unit and high COD and High TDS streams will be segregated and will be treated with RO, MEE and ATFD. PP also submitted that no construction and developmental activities are taken up by them w.r.t. proposed project. 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. The EC shall be valid for production of following products:

Pyridine derivatives eg. salt, esters ,Amide	**Production capacity**
Alpha Picolinic Acid	
Zinc Picolinate	
Chromium Picolinate	
Iron picolinate	1200 MT/A

Copper picolinate	
Niacin (Nicotinic acid)	
Niacinamide	
Chromium Polynicotinate	
Methyl/Ethyl/Butyl/benzyl Nicotinate	
Iso Nicotinic acid	
Isoniazide & Isoamide	
Isonipecotic acid	
Azacyclonol	
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	
Pyrazineamide acids & its salt	
Pyrazinamide	
Pyrazonic acid	200 MT/A
Propionic acid and its derivatives	
Chromium propionate	
Zinc propionate	
Iron Propionate	200 MT/A
Methionate derivatives	
L- Selenomethinine	
Chromium methionate	
Tertery Butyl copper chloride	200 MT/A
	1800MT/A

2. 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.
3. RO,MEE and ATFD 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.
4. 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.
5. Noise levels emanating from turbines shall be so controlled 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.
6. 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.
7. 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.
8. 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.
9. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
10. Bag filters should be provided in the boiler stack.
11. Ash handling system should be provided.

12. 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.
13. Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 10,000 sq. meter. PP will also maintain and make casualty replacement of the plantation.
14. Water intensive green area including thick green-belt as proposed shall be developed to mitigate the effect of fugitive emissions all around the plant in consultation with the forest department and as per the guidelines of CPCB.
15. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
16. 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.
17. 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.
18. 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.
19. No manual handling of material is allowed.
20. Permission of CGWB (if ground water is abstracted) should be obtained.
21. Hands on job trainings should be organized for the persons involved in the handling of hazardous materials.
22. Leak detection and fire hydrant systems should be installed to control fire.
23. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
24. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
25. 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 unit shall require a fresh Environment Clearance.

8. 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 **Demolished**	ETP, Admin and Blood Bank, Charm Rog Vibhag, 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 288thSEAC 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.

The case was earlier discussed in the 290th SEAC meeting dated 22/05/2017 wherein it is recorded that *"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".

PP has submitted the EIA report vide letter dated 11/05/2017 which is forwarded by the SEIAA vide letter no.425 date 15/05/2017.

The case was presented by the PP and their consultant in the 291st SEAC meeting dated 30/05/2017. During presentation PP informed that it's an existing Hamidia Hospital located within the premises of Gandhi Medical College and was established in the year 1955. M.P. Public Works Department proposes the modification and expansion of Hamidia Hospital (Smart Medicity) located at Royal Market, Hamidia Road, Peer Gate, Bhopal, Madhya Pradesh. PP further submitted that as per the gazette notification dated 22nd Dec., 2014, Educational Institutional Projects such as colleges and hostels are exempted from Environment Clearance. 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 m2 to 1,87,470.15 m^2. With the expansion, the revised water demand will be 1170 KLD which will be provided by the Bhopal Municipal Corporation. PP further submitted that they have applied for the revised permission to Bhopal Municipal Corporation for water supply, sewage disposal and MSW collection which is under consideration and as the permission is issued, copy will be submitted to the authority. PP submitted that dual plumbing is proposed for utilizing the treated waste water. For control of heavy vehicular traffic inside the hospital premises, PP submitted that a separate multi level parking is proposed at the entrance of the hospital campus which will reduce the vehicular movement inside the hospital campus. Committee suggested that additional to this, a tire washing apron should also be provided for any vehicle entering the hospital campus including ambulances to control fugitive emissions. The total green area will be 90,000 m^2 in which 1513 trees will be planted. It was also submitted by the PP that 228 trees are proposed to be uprooted for which committee recommended that permission of competent authority should be obtained and compensatory plantation activities be taken up as per the approval of the competent authority. Committee further recommend that necessary permissions under Water Act, 1974, Air Act, 1981, Bio-medical Waste, 2016 and Haz. Waste, 2016 etc should be obtained from the MP Pollution Control Board. During presentation, it was informed by the PP that treated effluent will be used in the laundry for which committee instructed that being is for the hospital, treated waste water should not be used for the laundry purpose. After presentation, PP was asked to submit response on following:

1. Current declaration of PP that no construction activities have been taken up on site.

2. Revalidate the Air Quality Data for minimum one week as the observed values of PM10, PM2.5, CO are on higher side with proper justification for such higher values.
3. Adequate measures should be proposed for mitigation of air pollution and noise pollution.
4. Revised water balance considering that no treated effluent will be used for the laundry.
5. Revised estimated for EMP with enhanced budgetary provisions commensurate with proposed EMP.
6. Copy of existing MOU with M/s Bhopal Incinerator for disposal of bio-medical waste.

PP vide letter no. 451 dated 12/06/2017 has submitted the reply of the queries raised in the 291st SEAC meeting dated 30/05/2017 which were placed before the committee. PP and their consultant were also present during the query reply discussions for submission of any additional information. On perusal of the query reply committee observed that PP has submitted a declaration stating that no construction activity of any building which have been applied for environmental clearance has started or going on at the site till date which is issued vide letter no. 453B/PIU-2/2017 dated 30/05/2017. Committee also observed that PP has submitted revised water balance considering that treated waste water will not be used for the laundry purpose and existing MOU with M/s Bhopal Incinerator for disposal of Bio-medical waste. The submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. Fresh water requirement for the project shall not exceed 1170 KLD.
2. The excess treated water will be used for watering of municipal road side green area or efforts shall be made to supply this water to the construction sites for use in the construction works.
3. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum 1513 no of trees will be planned in area marked as green belt. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
4. Total number of 228 trees are proposed to be uprooted for which permission of competent authority should be obtained and compensatory

plantation activities be taken up as per the approval of the competent authority excluding 1513 trees proposed in the EMP.

5. Tire washing apron should also be provided for any vehicle entering the hospital campus including ambulances to control fugitive emissions.
6. Zero liquid discharge shall be observed and no treated waste water should be discharged outside the 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.
7. STP sludge shall be filter-pressed and the de-watered sludge shall be disposed off with the MSW.
8. Necessary permissions under Water Act, 1974, Air Act, 1981, Bio-medical Waste, 2016 and Haz. Waste, 2016 etc should be obtained from the MP Pollution Control Board.
9. Log-books shall be maintained for disposal of all types Bio-medical & hazardous wastes and shall be submitted with the compliance report.
10. PP should comply with the various provisions of Bio-Medical Waste Management Rules, 2016 and time to time guidelines published by Central Pollution Control Board, Delhi.
11. Power back-up for un-interrupted operations of STP shall be ensured.
12. CFL/LED should be preferred over of tube lights.
13. Fund should be exclusively earmarked for the implementation of EMP.
14. MSW storage area should have 48 hours storage capacity.
15. Dual plumbing should be provided.
16. 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.
17. 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.
18. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
19. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care,

crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

20. PP will obtain other necessary clearances/NOC from respective authorities.

21. The grant of Environmental Clearance should be subject to necessary Wild Life Clearance from NBWL to be obtained by PP.

22. 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 unit shall require a fresh Environment Clearance.

(A.A.MISHRA) **(Dr. R.B.LAL)**
SECRETARY **CHAIRMAN**