The 136th Meeting of State Level Expert Appraisal Committee - 1 held on 5th, 6th & 7th October, 2016 at Parishad Sabhagraha, Hall no. 3 & 4, 7th Floor, Main Building, Mantralaya, Mumbai- 400 032.

The following members were present for the Committee meeting:

Shri. T. C. Benjamin	Chairman	5th, 6th & 7th October, 2016
Prof. (Dr.) Bhaskar N. Thorat	Member	6th & 7th October, 2016
Shri. Chandrakant I. Sambutwad	Member	5th, 6th & 7th October, 2016
Prof. (Dr.) Ramesh Dod	Member	5th, 6th & 7th October, 2016
Shri. D A Hiremath	Member	absent
Shri. Madan M. Kulkarni	Member	7th October, 2016
Shri. Balbir H. Sehgal	Member	5th, 6th & 7th October, 2016
Shri. M. B. Hajari	Member Secretary	5th, 6th & 7th October, 2016

At the outset, the Chairman welcomed all Members present to the meeting. Thereafter the items were taken up for discussion.

*	**Confirmation of minutes of 135th meeting**

The minutes of the 135th SEAC-I meeting were **confirmed** unanimously.

Discussion item 1	**Discussion on visit reports**

I. **M/s. Shri Dnyaneshwar Sahakari Sakhar Karkhana Ltd.**
The Committee went through the visit report and decided to take it up when the project is considered for approval.

II. **M/s. Harmony Organics Pvt. Ltd.**
The Committee went through the visit report (attached as ***Annexure C***) and decided to take it up when the project is considered for approval.

Member Secretary

Chairman

"Annexure C"

Visit report- M/s. Harmony Organics Pvt. Ltd.

Date- 1/10/2016

Pursuant to the decision taken in the 135th meeting a sub-committee comprising of following members visited the plant on 1.10.2016-

1. Shri. T. C. Benjamin, Chairman
2. Prof. (Dr.) Ramesh Dod, Member

A sub-committee made the following observations.

I. The PP i.e. M/s. Harmony Organics Pvt. Ltd. at plot no. D-5, MIDC Kurkumbh, Taluka- Daund, District- Pune is engaged in manufacturing of synthetic organic chemicals at same location.

II. The sub-committee has noted that the same activity attracts EC as per the EIA Notification 2006. However, it was observed by the sub-committee that PP has not obtained the EC for the existing production. It is surprising that expansion in production capacity of Methyl Pentenone (MPO) 150 MT/M i.e. 1800 MT/A [5 times of earlier production] and Phenyl Ethyl Alcohol (PEA) 200 MT/M [6.67 times of earlier production i.e. 2400 MT/A] were granted by MPCB vide their Consent to Operate No. MPCB/14/02/02153 dated 6.3.2014 indicating violations of the EIA Notification 2006.

It was noted by the sub-committee that existing production of PEA (Phenyl Ethyl Alcohol) is 2160 MT/A [180 MT/M which is equal to 72 MT/day]. Each day there are batches to produce 72 MT/day; each batch generates 4500 lit to 5000 lit of high COD effluent.

Thus from one product daily trade effluent generation is 13.5 CMD. It is suggested by the sub-committee to correctly workout the quantum of trade effluent generated from other products like Methyl Pentenone and other as mentioned in FORM 1 for the rated capacity of the reactors.

III. Blow down quantities of cooling tower and boilers needs to be correctly workout (For the existing boilers 3 CMD boiler blow down + 20 CMD cooling tower blow down).

Member Secretary

Chairman

IV. PP has agreed to scrap 1.5 TPH existing boiler and continue to use 1 boiler of 4 TPH which will require 16 TPD of coal. Considering the proposed expansion there will be 2 boilers of 10 TPH each which will require 40 TPD of coal.
Sub-committee has suggested that sprinkling arrangement for coal storage yard may be provided and its consumption may be added in the revised water budget.

V. ESP or bag filter of suitable size is suggested to achieve the outlet TPM ≤ 50 mg/Nm^3.

VI. Stage wise material balance for every product/ 1kg of product may be detailed in EIA report.

VII. NaCl should be given to tannery industry.

VIII. Steel silos of sufficient capacity should be provided for minimum of 7 days storage of fly ash.

T.C.Benjamin
Chairman

Ramesh Dod
Member

III. M/s Hindustan Electricity Generation Co. Pvt. Ltd.

The Committee went through the visit report (attached as ***Annexure D***) and decided to take it up when the project is considered for approval.

"Annexure D"

Visit Report. M/s Hindustan Electricity Generation Co. Pvt. Ltd., Navlakh Umbre, Taluka Maval, Dist. Pune

Date- 24.9.2016

Pursuant to the decision taken in the 135th SEAC-I meeting, a sub-committee comprising of following members-

1. Shri. T. C. Benjamin, Chairman
2. Prof. (Dr.) Ramesh Dod, Member
3. Shri C. I. Sambutwad, Member
4. Shri. Balbir Sehegal, Member
5. Shri. M. M. Kulkarni, Member

Visited the M/s. Hindustan Electricity Generation Co. Pvt. Ltd., Navlakh Umbre, Taluka Maval, Dist. Pune alongwith Mr. Jadhav, Field Officer, MPCB and representatives of PP between 3 - 5 pm on 24 Sept 2016.

Following observations were made by the sub-committee-

I. The PP has proposed an Integrated Industrial Area comprising of Industrial – Manufacturing, Warehouse along with Residential, Commercial – retail and educational project at Navlakh, Umbre and Badhalwadi Village, Taluka Maval, District- Pune.
   - Plot Area. 10,07,060.22 m^2 (248 acres)
   - FSI area. 5,75,352.06 m^2
   - Total Construction area. 6,04,119.66 m^2

II. The access to the plot is from Talegaon MIDC road to Chakan and is about 5 km from MDR-15 road junction. MDR-15 road is proposed to be 24 m wide, however presently it is only about 7 m wide. About 1.5 km road from MDR-15 to the entrance gate of the plot is proposed to be 18 m wide however presently it is only 5 m wide.

III. The plot has an elevation difference of about 45m from 670 to 625m distributed over Plot length of about 2.5 km and average plot width varying from 400 to 500 m.

Member Secretary

Chairman

IV. The PP has indicated water requirement at about 4 MLD (3.694 MLD). There are following sources of water near to the plot-

1. Andhra Dam (about 5 km away)
2. Bhama Askhed dam (about 7 km away and separated by a ridge in between).
3. Jadhavwadi dam (about 5 km away)
4. Indrayani river (about 7 km away)

The PP has to identify the source and make their own arrangement for water supply. Consent from Water Resource Deptt. should be furnished

The project should be self sufficient in terms of waste management, wastewater treatment & disposal. The PP should include a separate chapter in EIA report indicating methods of solid waste/hazardous waste handling, treatment and disposal. The wastewater generated should be treated and reused within the facility so as not to contaminate natural water resources.

VI. The project is located in a biologically rich and diverse environment. It was discussed and agreed by PP to conduct a separate, independent study on biodiversity of the area by an expert and submit along with the EIA report.

VII. The proposed project plot area is rich in natural resources and consists of number of water streams flowing from the nearby hillocks into the plot area. The plot also has a lush green tree cover and is untouched by any development activity. The plot may be one of very few remaining spots in the Western Ghats and will be lost forever after proposed project comes up. Also, presently a full-fledged Talegaon MIDC is functioning in the vicinity where proposed project activity can be shifted. The proposed project is at least 5 km away from nearest developed area and will require creation of separate infrastructure to support the project activities. It will also increase traffic and congest roads in the area.

T.C.Benjamin	C.T.Sambatwad	Ramesh Dod	M.M.Kulkarni	B.H.Solegal
Chairman	Member	Member	Member	Member

Item no. 1	Minor Minerals **(stone) Sangli (1)**

The proposal was considered under 1(a)-B2 category of the schedule of EIA Notification 2006. The brief information submitted by the PP and decision of the Committee are depicted below:

S. No.	Name of the Proponent, Mouz, Taluka, Land type	Gat No./ Survey No.	Area (ha)	Observation of the Committee	Recommendations
1.	Shri. Jamir Abdul Hajarat Sidhewadi, Miraj	196/2	6.14 ha	Approved Mining Plan has been submitted and found to be in order. No hill cutting was involved. The proposed	**Recommended for EC** subject to the conditions

				quarry is beyond 200m from habitations, water bodies, roads and public structures. AAQS shows that GLCs were within prescribed limits. All aspects of environmental impact were considered and found to be acceptable.	stipulated in the ***Annexure A.***

Item no. 2	Minor Minerals **(stone) Ratnagiri (01)**

The proposal was considered under 1(a)-B2 category of the schedule of EIA Notification 2006. The brief information submitted by the PP and decision of the Committee are depicted below:

S. No.	Name of the Proponent, Mouz, Taluka, Land type	Gat No./ Survey No.	Area (ha)	Observation of the Committee	Recommendations
1.	M/S RENUKA CONSTRUCTION Visapur, Dapoli (Pvt.)	43/1, 43/2, 43/3, 43/4, 44/6, 44/7, 44/12 and 44/13	5.1	Approved Mining Plan has been submitted and found to be in order. The proposed quarry is beyond 200m from habitations, water bodies, roads and public structures. AAQS shows that GLCs were within prescribed limits. There is no crusher in the vicinity of the quarry. However the PP could not state whether the quarry belongs to a particular geo-hydrological regime.	**Deferred** for the report of Senior Geologist, GSDA regarding geo-hydrological zone in which the stone quarry is situated.

Item no. 3	**M/s. Khursipar Iron Ore Mine [area- 4.37 ha]** **At survey no. 165 & 132, Village- Khursipar, Taluka- Amgaon, District- Gondia.**

The brief information of the project as submitted by the PP is as follows:

I	Name of the project	Khursipar Iron Ore Mine

2	Name , address, e-mail & contact number of proponenl	Lessee: Maharashtra Stale Mining Corporation Ltd. "Khanikarm Bhawan", Plol No- 7, Ajani Chowk, Wardha Road, Nagpur-440015(Maharashtra) Email: info@msmc.gov.in Contact no: 0712-2253204 to 2253207
3	Name , address, e-mail & contacl number of Consullant	Vivek P. Navare Hubert Enviro care systems Pvt. Ltd. # 18, 92nd Street, 18th Avenue, Ashok Nagar, Chennai – 600083 Telephone no.: 044 – 42985511/55, 09884390811 Email: consultancy@hecs.in/ markeling@hecs.in/ moses.hecs@gmail.com Websile: www.hecs.in
4	Accredilalion of Consultanl (NABET accreditation)	NABET Accreditalion. Accredilalion for seclors 1A
5	New Project/Expansion in exisling projecl /Diversification in existing projecl	Working Mine, Renewal
6	1f expansion/ Diversificalion, whether environmental clearance has been oblained for existing project (1f yes, enclose a copy wilh compliance lable)	Not Applicable
7	Aclivity schedule in the E1A nolificalion	Category B
8	Area Details	Govt. revenue land: 4.37 Ha
9	Name of Nolified Industrial area/ MIDC	Not Applicable

10	TOR given by SEAC?	NOT SO FAR. WILL BE GIVEN AFTER SEAC MEETING.	
11	Estimated cosl of the project : (Including cost for land, building, plant and machinery separately)	10,01,64,196 Crore	
12	Location details of the projecl	Latitude	21°22'45.682"N
		Longilude	80°17'30.39"E
		Location	Khursipar
		Elevation above Mean Sea Level (melers)	361m
13	Distance from prolected area critically polluted area Eco sensitive area Interstate boundary	Nagzira Wildlife Sanctuary	13.86Km (W, SW)
		Navegaon National Park	39.68Km (S)
		Malewada Forest Range	47.70Km (S)
		No critically polluted area	Nol Applicable
		Madhya Pradesh state boundary	11.48Km (E)
		Chhattisgarh state boundary	28.00Km (SE)

14	Raw malerials (including process chemicals, catalysts & additives).	List of raw materials to be used	Physical and chemical nature of raw material	Quantity (tones / month) full production capacity	Source of materials	Means of transportation (Source to storage sile) with justification	

Member Secretary

Chairman

<table>
<tr><td></td><td></td><td>No raw material is required. Iron ore will be extracted from the strata</td><td>Iron ore will be extracted from the strata.</td><td>There will be network of road in the quarry. Quarry will be connected to the public road by existing un-asphalted road (Village Road is passing in buffer zone near lease area 100m away).</td></tr>
<tr><td>15</td><td>Production profile (tones / year):</td><td colspan="3"><table>
<tr><td>Name of Products, By products and Intermediate Products</td><td>Existing</td><td>Proposed activity (new)</td><td>Total</td></tr>
<tr><td>Main Products</td><td></td><td>Iron ore (35, 000 tons/annum) -</td><td>Iron ore (35, 000 tons/annum) -</td></tr>
<tr><td>By- Products Intermediate Products</td><td></td><td>The ore is taken to the stack yards manually for screening and sizing.</td><td>The ore is taken to the stack yards manually for screening and sizing.</td></tr>
</table></td></tr>
<tr><td>16</td><td>Process Details/Manufacturing Details</td><td colspan="3">Process details are given in Pre-feasibility report.</td></tr>
<tr><td>17</td><td>Rain Water Harvesting (RWH)</td><td colspan="3">In monsoon the rain water will get collected in quarry pit.
Level of the Ground water table (it is at least 10m below the lowest level of the pit)
• Size and no of RWH tank(s) & Quantity- 5mx 5mx 3m. There will be at least two such tanks.
• Location of the RWH tank(s)
• Size, nos of recharge pits and Quantity. There will be drains on the higher side of the pit to increase the catchment area.</td></tr>
<tr><td>18</td><td>Total Water Requirement</td><td colspan="3">Total water requirement:
Fresh water (CMD):2.5 & Source:Borewell
Recycled water (CMD):0 CMD
Use of the water:
Process (CMD): Cooling water (CMD):0 CMD
DM Water (CMD):0 CMD
Dust Suppression (CMD): 1.5
Drinking (CMD):0.5
Green belt (CMD):0.5
Fire service (CMD):0 CMD
Others (CMD):0 CMD</td></tr>
<tr><td>20</td><td>Sewage generation and Treatment</td><td colspan="3">Amount of Sewage generation: 0.300 CMD
Proposed treatment for sewage: Septic tank provided.</td></tr>
<tr><td>21</td><td>Energy</td><td colspan="3">Power supply:
Existing power requirement:107 H.P

Number and capacity DG sets to be used (existing and proposed) - One DG sets: 125 KVA will be installed at the site which will serve the purpose.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Details of the non-conventional renewable energy proposed to be used : NA</td></tr>
<tr><td>22</td><td>Details of Pollution Control System:</td><td>
<table>
<tr><td>Sr. No</td><td></td><td>Existing</td><td>Proposed</td></tr>
<tr><td>1</td><td>Air</td><td></td><td>Water Sprinklers, Dust Collection Bag, Covered Product Storage.</td></tr>
<tr><td>2</td><td>Water</td><td></td><td>No adverse impact ---</td></tr>
<tr><td>3</td><td>Noise</td><td></td><td>Enclosure for noise generating equipments, Vibration pads for the specific Instrument.</td></tr>
<tr><td>4</td><td>Solid Waste</td><td></td><td>---- Disposed to authorized Vendor by MPCB</td></tr>
</table>
</td></tr>
<tr><td>23</td><td>Environmental Management plan Budgetary Allocation</td><td>Capital cost (With break up):6,00,000
• O&M cost (With break up): 40,000</td></tr>
<tr><td>24</td><td>EIA Submitted (if yes then submit the salient Features)</td><td>
<table>
<tr><td>Sr. No.</td><td></td><td>Recurring Cost per annum (Rs.)</td><td>Capital Cost (Rs.)</td></tr>
<tr><td>1</td><td>Air Pollution Control</td><td>5,000</td><td>2,25,000</td></tr>
<tr><td>2</td><td>Water Pollution Control</td><td>-----</td><td>-----</td></tr>
<tr><td>3</td><td>Noise Pollution Control</td><td>5,000</td><td>1,75,000</td></tr>
<tr><td>4</td><td>Environment Monitoring and Management</td><td>15,000</td><td>50,000</td></tr>
<tr><td>5</td><td>Reclamation borrow / mined area</td><td>-----</td><td>-----</td></tr>
<tr><td>6</td><td>Occupational Health</td><td>5,000</td><td>25,000</td></tr>
<tr><td>7</td><td>Green Belt</td><td>5,000</td><td>75,000</td></tr>
<tr><td>8</td><td>Solid Waste Management</td><td>5,000/-</td><td>50,000/-</td></tr>
<tr><td>9</td><td>Others (Pl. Specify)</td><td>-----</td><td>-----</td></tr>
<tr><td colspan="2">Total</td><td>40,000/-</td><td>6,00,000/-</td></tr>
</table>
Period of data collected
Details of the primary data collection (i.e. location of the sample collection, number of visit, etc)
Details of the secondary data collection (i.e. Source and year of data)
Potential hazard and mitigation measures
Conclusion of the Cumulative Impact study
EIA report is submitted along with the consolidated statement (Refer Cumulative Impact Study)
</td></tr>
</table>

Member Secretary

Chairman

The PP gave a detailed presentation of the project of mining of Titaneferrous Iron ore at survey no. 165 (2.60 ha) and 132 (1.77 ha) of Village- Khursipar, Taluka- Amgaon, District- Gondia. The proposal was considered under 1(a)-B2 category of the schedule of EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. The quarry should be strictly restricted to non-forest areas only [forest includes zudpi jungle area].
2. The quarrying will be carried out manually and no blasting will be resorted to.
3. There is a village road adjacent to the quarry. The PP shall ensure that the quarry does not affect health and safety of road users.
4. There is a water body situated in the near vicinity, the overburden and other rejects should not be allowed to enter the water body. For this purpose a stone hedge of 1m x 1m should be constructed along the lease boundary.
5. Plantation in two rows shall be taken up along the lease boundary.
6. Benches of 3m x 3m with 45^0 slope shall be maintained in the mine.

The Committee went through the Mining Plan and found to be in order. Other aspects of environmental impact were considered and found to be acceptable. The Committee decided to **recommend** the project **for EC** subject to the observations (1-6) above.

Item no. 4	Minor Minerals **(sand) Chandrapur (3) [new]**

PP remained absent hence **deferred.**

Item no. 5	**M/s. Nipur Chemicals Ltd. (ToR)** Expansion of existing unit consists of expansion in production capacity of synthetic organic chemicals & byproducts Existing Production - 250 MT/M, Proposed expansion - 4621 MT/M at Plot No. 17, Tarapur MIDC, Taluka - Palghar, District - Palghar

The PP gave a detailed presentation for ToR for proposed expansion of its manufacturing facility from 250 MT/M to 4621 MT/M. The present expansion envisages augmentation of the present production of dye intermediates and pharma intermediates and introduction of few items of synthetic pharma. The project was considered under category 5(f) - B1 of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. There will not be any additional effluent generation and it will remain as 50 KLD. However, EIA report should contain details of ETP with proper treatability studies as the basis.
2. PP intends to deploy boiler, thermopac and DG set of varying capacity. A thorough study of emission management shall be carried out to ensure an outlet TPM of less than 100 mg/Nm^3. Detailed stack height calculations may be given in the EIA report.

3. The water balance may take into account the effluent coming out of the 2 process scrubbers and also the boiler and cooling tower blow down. PP may examine whether water can be conserved using drip irrigation. Rain water harvesting may be factored in.
4. Details of material balance for each product shall be given.
5. PP may explain possibility of using solar energy for illumination of the premises.
6. Mechanical sludge dewatering shall be deployed as there is generation of huge quantity of sludge.
7. Details of ash management: whether there is necessity for a silo for storing ash before it is dispatched from the premises.
8. A separate chapter on Risk Assessment and Risk Management shall be included in the EIA report.
9. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-9) points.

Item no. 6	**M/s. Wonder Cement Ltd. (ToR)** Proposed Clinker grinding unit (2x2 MTPA) and DG set (6.5 MW) at plot no. 04, NARDHANA INDUSTRIAL AREA M.I.D.C. NARDHANA, Village- Jatoda, Taluka- Sindhkhede, District- Dhule.

The project was considered under category 3(b)-B1 of the schedule of the EIA Notification 2006. The PP gave a detailed presentation for their Clinker grinding unit at Village- Jatoda, Taluka- Sindhkhede, District- Dhule situated in the MIDC area. In the 128th meeting, the PP had presented the proposal of same unit at Village- Hol. However, to avoid procurement of agricultural land the PP has now decided to locate the project in Village Jatoda, in the MIDC area.

The proposal envisages commissioning of the project in 2 phases of 2 MTPA each. The Committee desired that EIA shall be prepared considering total production of 2 x 2 MTPA i.e. 4 MTPA. PP proposes to source Clinker (65%) from there captive cement plant at Rajasthan and grinding it with fly ash (30%) & Gypsum (5%) to produce PPC.

After detailed discussion the Committee made the following observations:

1. Stringent steps should be taken in the plant to reduce air pollution by using bag filters and covered conveyor belts throughout the plant. The outlet TPM should not exceed 50 mg/Nm^3.
2. The Ambient Air Quality study should incorporate 12 stations out of which 4 shall be located at the Shirpur power plant, 4 in the downwind direction of plant and 4 elsewhere.
3. Water consent should be obtained and included in the EIA report.
4. There should be a STP of suitable capacity to treat waste water generated by persons employed and persons visiting the plant. Suitable Waste management facility [e.g. vermicomposting] for canteen waste shall be provided.
5. Details of 6.5 MW DG set and suitable emission control measures shall be outlined in the EIA Report.

Member Secretary

Chairman

6. PP proposes to consume 500 CMD of water; water balance statement for the same may be given.
7. The equipments used for grinding should be of proven energy efficiency available in the market and necessary proof thereof should be given.
8. PP will make efforts to ensure recycling of bags in which cement is filled and come up with an exclusive system for collection and recycling.
9. PP should take steps to harvest solar energy and rain water.
10. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-10) points.

Item no. 7	**M/s. VARUNESHWAR ORGANICS (ToR)** At PLOT NO B-48 MIDC TASWADE KARAD SATARA

The PP gave a detailed presentation for ToR regarding green field project to manufacture Synthetic Organic Chemicals to the extent of 5.7 MT/M. The project was considered under category 5(f) - B1 of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. Since the project is going to be situated in Taswade MIDC which does not have CETP, the project shall be a Zero Liquid Discharge System.
2. Effluent should be treated in ETP consisting of primary, secondary & tertiary processes to be preceded by pre-treatment using H2O2 to neutralize bio-refractory chemicals in the effluent.
3. The boiler of 0.5 TPH capacity using bagasse as a fuel shall be followed by wet scrubber of sufficient capacity. The process emissions shall be passed through alkaline scrubber followed by a stack of height 6m above the roof level.
4. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-4) points.

Item no. 8	**M/s. Shree Jay Jagdamba Stainless Steel Ltd.** Proposed manufacturing of MS/SS/ Alloy steel Billets, Ingots, Round bars, Rolled Product and structural item on the plot bearing Gat No.57, 58, P-1,59,60, 87,88 at village Abhitghar ,Taluka- Wada, Distt.Thane

The PP remained absent hence **deferred.**

Item no. 9	**Application for EC from MSRDC for BVSL**

The bief information of the project as submitted by the PP is as follows:

1	Name of the Project	Versova Bandra Sea Link (VBSL) Project in Mumbai, Maharashtra State
2	Name, address, e-mail & Contact no. of Proponent	Name: Mr. R.B. Gadge/ Mr. Shreekant. V. Jadhav. Address: Maharashtra State Road Development Corporation Limited (MSRDC), D-2, KC Marg, Nityanand Nagar, ONGC Colony, Bandra West, Mumbai, Maharashtra 400050 Telephone Number: 022-26400190/ 26400201/ 26558175/ 26558176/ 26433908 Email ID: gadge101@gmail.com/
3	Name of Consultant	Address: M/s Fine Envirotech Engineers
4	Accreditation of Consultant (NABET Accreditation)	NABET – QCI-154
5	New Project /Expansion in existing project /Modernization /Diversification in existing project	New Project
6	If expansion/ Diversification, Whether environmental clearance Has been obtained for existing project (If yes, enclose a copy with compliance table)	Not Applicable
7	Aetivity schedule in the EIA Notification	8 (B)
8	Area Details	Total plot area (sq. m.): Built up area (Sq. m.): Length of sea link – 9.890 km
9	Name of the Notified Industrial area / MIDC area	--
10	TOR given by SEAC? (If yes then specify the meeting)	TOR for EC was granted by SEAC –I in its 122nd meeting held on 26th February 2016.
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery seperately)	Rs. 5516 Crores.
12	Location details of the project:	The project is located along the West coast of Mumbai from Bandra West to Versova in Mumbai City. Location Plan is attached as Annexure-I Bandra: Latitude:- 19°02'48.7" N, Logitude:- 72°49'23.6" E Versova: Latitude:- 19°07'29.3" N Logitude:- 72°48'56.7" E Elevation above Mean Sea Level (metres):- at MSL of 13.2
13	Distance from Protected Area/ Critically Polluted areas/ Eco-sensitive areas/ interstate boundaries	The proposed sea link passes through the CRZ I, CRZ I (i) and CRZ I (ii) along the sea side. Approx distance from Sanjay Gandhi National park Borivali is 10.20 kms.

<table>
<tr><td>14</td><td>Sewage generation and treatment</td><td>Amount of sewage generation (CMD): 16CMD from labour camp of casting yard.
Proposed treatment for the sewage: mobile STP
Capacity of the STP (CMD) (If applicable): 25 CMD
The treated sewage will be reused for sprinkling & dust containment excess if any will be drained to Network of MCGM.</td></tr>
<tr><td>15</td><td>Solid waste Management</td><td>Solid waste generated during Construction phase was from Pile and Pilecap.
Construction phase waste generated was approx.: 80,000 m^3/day
Solid wastes were disposed through dumpers on the same day without storing at site.</td></tr>
<tr><td>16</td><td>Energy</td><td>The power was obtained through Reliance Power Supply
During construction phase the power requirement was 100KVA
However provision was made for 2 nos diesel power generating sets of capacity 100 KVA as a backup. Adequate height stack will be provided to DG set.</td></tr>
<tr><td>17</td><td>Environmental Management plan
Budgetary Allocation</td><td>Construction Phase:
<table>
<tr><th>SR. No</th><th>ITEMS</th><th>COST (INR) DURING CONSTRUCTION PER YEAR</th></tr>
<tr><td>1</td><td>AIR ENVIRONMENT</td><td>14,40,000</td></tr>
<tr><td>2</td><td>WATER ENVIRONMENT</td><td>6,72,000</td></tr>
<tr><td>3</td><td>NOISE ENVIRONMENT</td><td>1,20,000</td></tr>
<tr><td></td><td>TOTAL EMP COST</td><td>22,32,000.00</td></tr>
</table>
Operation Phase:
<table>
<tr><th>SR. No</th><th>ITEMS</th><th>COST (INR) DURING OPERATION PER YEAR</th></tr>
<tr><td>1</td><td>AIR ENVIRONMENT</td><td>4,80,000.00</td></tr>
<tr><td>2</td><td>WATER ENVIRONMENT</td><td>2,24,000.00</td></tr>
<tr><td>3</td><td>NOISE ENVIRONMENT</td><td>40,000.00</td></tr>
<tr><td></td><td>TOTAL EMP COST</td><td>7,44,000.00</td></tr>
</table>
Disaster Management Plan & CSR
<table>
<tr><th>SR. No</th><th>ITEMS</th><th>COST (INR)</th></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>1</td><td>Fully equipped Life saving boats at 2 location</td><td>75 lacs</td></tr>
<tr><td>2</td><td>Training to MSRDC staff & Concessionaire staff for DMP</td><td>20 lacs</td></tr>
<tr><td>3</td><td>Environmental & social Awareness program.</td><td>35 lacs</td></tr>
<tr><td>4</td><td>Green areas</td><td>42 lacs</td></tr>
<tr><td></td><td>Total</td><td>172 lacs</td></tr>
</table></td></tr>
<tr><td>18</td><td>EIA Submitted (If yes then submit the salient features)</td><td>Yes
Executive Summary is attached as Annexure-2</td></tr>
</table>

The PP brought to the notice the Order of NGT, Principal Bench, New Delhi in which Principal Bench considered the issue of whether the project of construction of Bandra-Versova Sea link would require Environment Clearance. The Principal Bench referred to the case of Vikram Kumar Tongat v/s Delhi Tourism Corporation and held that the above project would require EC. In Vikram Kumar Tongat case the Principal Bench had categorically concluded that the construction of bridge across the Yamuna is a

project activity requiring prior EC under category 8(b) - B1 of schedule of EIA Notification 2006. The Committee considered the ambit of category 8(b) and noted that the said category pertains to "Townships and Area Development" project covering an area of greater than or equal to 50 ha and / or built-up area of greater than or equal to 1, 50, 000 sq. m. In so far as the present project impact the environment around by congesting / decongesting areas by providing a high volume link between 2 points of Mumbai city, it is fully justified that the project is considered as an "Area Development Project".

EIA report which was considered by the Committee. All aspects pertaining to air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The dispersal of the traffic at the landing of the sealink / connectors was addressed by the PP. Impact of marine ecology with specific impact on the benthic organisms during and after construction of the sea link has been brought out in the EIA report. The impact on geo-morphology of coastal area with reference to possible erosion and accretion of beaches by virtue of sea link was detailed in the EIA report. Impact on social, cultural and economic activity of people residing in coastal area in particular fishermen was also discussed.

All these discussions indicated that the impacts which were considered would not be adverse to the extent of causing harm to the environment or the stake holders involved.

The Committee went in detail on impact of casting yards submitted by the PP. Two casting yards will be deployed as follows-

1. Abandoned casting yard at Bandra survey no. B/1152 of Village Bandra [admeasuring 6000 sq.m]
2. Khardanda survey no. 1053,1213 [admeasuring 6000 sq.m]

The Committee desired that the following conditions shall be followed while operating the casting yards:

a) No mangrove shall be disturbed.
b) Permissions from MCZMA if needed shall be taken.
c) Mobile STPs of 25 CMD should be installed in each casting yard. The water for curing shall be passed through activated carbon filter and pressured sand filter for reuse.
d) Storm water shall be connected to storm water drain of the Municipality to avoid any stagnation of water in the premises.
e) Casting yard DG set should not give rise to any noise pollution, for this purpose casting yard shall be established away from habitations. The roads and casting yard area shall be properly paved and water sprinkled to suppress the dust. DG set shall have stack of adequate height.
f) If there is any change in location of casting yard the PP will have to approach to the SEIAA for fresh appraisal.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (a-f) conditions.

Member Secretary

Chairman

Item no. 10	**M/s Bhimashankar Sahakari Sakhar Karkhana Ltd. (ToR)** Proposed expansion of Sugar Plant from 2500 TCD to 6000 TCD at gut no. 148, 206, Dattatraynagar, A/P Pargaon Via Awasan Bk., Tal. Ambegaon, Dist. Pune

The PP gave a detailed presentation for ToR for the proposal to expand sugar manufacturing unit from 2500 TCD to 6000 TCD. The project was considered under category 5(j) - B1 of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. The proposed expansion should not entail any additional demand of irrigation water and therefore the PP should ensure that 75% sugarcane cultivating captive area should be converted to drip irrigation. Resolution of Board of Directors in this regard may be included in the EIA report.
2. There would not be any additional water requirement; however a detailed water balance incorporating recycling measures in particular considering recycling of spray pond effluents shall be given.
3. Presently the PP has ETP of 750 CMD. The Committee concluded that prima facie an ETP of 1300 CMD would be required for the treatment of effluent from sugar unit (600 CMD), excess spray pond (600 CMD) and co-generation (100 CMD). Details of inflow to the ETP and design of ETP may be given in detail.
4. Generation and requirement of bagasse may be carefully worked out, bagasse should not be sourced from outside. No other fuel other than bagasse shall be used.
5. Details of ash disposal and ash storage shall be given to ensure 7 days storage of ash generated from the premises.
6. 2 boilers of 180 TPH and 237 TPH, both bagasse fired, shall have a stack of height 72m and 60m. Details of air pollution controlling devices may be given to achieve an outlet TPM of less than 100 mg/Nm^3.
7. Details of molasses storage with geometrics of dyke wall may be included.
8. Ambient Air Quality Studies minimum of 8 stations shall be carried out. 1 station may be included in colony / school area near the factory.
9. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-9) points.

Member Secretary

Chairman

Item no. 11	**M/s. Pratap Organics Pvt. Ltd. (ToR)** Proposed manufacturing of bulk drugs and intermediates of capacity 3600 MTPA at Plot No. K-6, Additional Mahad Industrial Area, Taluka: Mahad, District: Raigad,

The PP gave a detailed presentation for ToR for their greenfield project to manufacture bulk drug and intermediates to the extent of 3600 MT/A. The project was considered under category 5(f) - B1 of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1) Provisions of DC regulations of MIDC should be followed. 33% of open area and 12% of total plot area may be kept reserved as a green space and parking space respectively.
2) The effluent stream shall be segregated into High COD and Low COD streams and treated effluent should be used for make-up water of cooling tower for washing & flushing to achieve a Zero Liquid Discharge system.
3) The PP shall ensure that Chloro/ Bromo compounds do not enter into ETP. Bromine shall also suitably recovered and not allowed to enter into the effluent stream.
4) PP shall ensure recovery of solvents to the extent of 95% and recovered solvents shall be used in the processes.
5) The by-products should be sold to authorized vendors and details may be given in the EIA report.
6) Details of material balance showing conversion and yield in respective steps involved w.r.t. all intermediates shall be given.
7) The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-7) points.

Item no. 12	**M/s. Ipca Laboratories Ltd.** Production enhancement of synthetic drug API of capacity 539 MT/A at plot no. G-4, 5,6 &7, MIDC Waluj, Aurangabad.

The brief information of the project as submitted by the PP is as follows:

1.	Name of Project	Production Enhancement of Synthetic Drug API (From 347 MTA to 539 MTA)
2.	Name, address , e-mail & contact number of Proponent	Dr. Vivek Kumar Srivastava Designation: Sr. Vice President (Operations) Address: 142, AB, Kandivali Industrial Estate, Mumbai – 400 057 e-mail: vivek.shrivastava@ipca.com Contact number: 0240 – 6611501 / 6611504
3.	Name of Consultant	M/s. Green Circle Inc.
4.	Accreditation of consultant (NABET Accreditation)	Gujarat High court stays order for NABET - No. C/SCA/5312/2016 dated : 05/04/2016 against Gazette Notification S.O. 648 (E), 03.03.2016 EIA Notification, 2006
5.	New Project / Expansion in existing project/	Expansion Project

	Modernization/ Diversification in exiting project	
6.	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	Environmental Clearance was not pre-requisite at the time of establishment of the project in 1997. CTE and CTO was obtained from Maharashtra Pollution Control Board (MPCB)
7.	Activity schedule in the EIA Notification	Category of 5(f) 'B' as per the provision of "EIA Notification No. S.O. 1533 (E)" dated 14.09.2006; amended on December 01, 2009.
8.	Area Details	Total plot area: 22591.00 sq.m. Built up area: 6685.53 sq.m.
9.	Name of the Notified Industrial area / MIDC area	Maharashtra Industrial Development Corporation (MIDC) Waluj Industrial Area, Aurangabad, Maharashtra.
10.	TOR given by SEAC? (If yeas then specify the meeting)	Yes, 131st SEAC meeting (15th & 16th July, 2016)
11.	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Rs. 20.40 Crores
12.	Location details of the project :	Latitude: 19°51'40.08" N Longitude: 75°13'24.67" E Location: Plot No. G-4 to G-7, MIDC Waluj Industrial Area, Village: Ranjangaon, Taluka: Gangapur, District- Aurangabad , State: Maharashtra
13.	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	No, Protected areas/ Critically polluted areas/ Eco- Sensitive areas/ inter- state boundaries present in an around the study area of Project.
14.	Production details	

Sr. No.	Product / Intermediate Name	Existing Quantity in MTPA	Proposed Quantity in MTPA	Total Quantity in MTPA
1	DSA	120	0	120
2	Oxantel Tartrate/Pamoate	5	-5	0
3	Hydrochlorothiazide	40	-40	0
4	T-2A	24	0	24
5	3 MT-2A	20	0	20
6	Chlirothalidone	50	-45	5
7	TFDSA	3	2	5
8	CPSP	35	15	50
9	Metochlopramide Hcl	50	-25	25
10	Aceclofenac	0	5	5
11	Valsartan (MV-I.HCL)	0	20	20
12	TBCA	0	50	50
13	Levo Ester	0	10	10
14	P-Toluene Sulfonil Urea (PTU)	0	10	10
15	Lasamide	0	100	100
16	3-CPP (Intermediate of Buprobion)	0	10	10
17	DCBOC (Intermediate of Lamotrigind)	0	10	10
18	CPD	0	10	10

		19	DTP (Intermediate of Quetiapine)	0	10	10
		20	TBTC	0	50	50
		21	R & D Products	0	5	5
		TOTAL		347	192	539
15.	Total Water Requirement	Total water requirement: 215 KLD (dry season) & 200 KLD (wet season) Source: MIDC +Recycling Detail water balance chart attached as Annexure V				
16.	Storm water drainage	• Natural water drainage pattern		The industry is located in Waluj MIDC area where all the facilities are available by MIDC. The land is having gentle slope. Runoff from surrounding areas ultimately joins to Kham river through medium and small shallow streams. - Quantity of Storm water : 9850.28 M^3 - Size of SWD : Total area of rain water: 26678.99 M^3		
		• quantity of storm water: 9850.28 m^3 (generated during monsoon) • Size of SWD: 0.30 x 0.60 x 100 m				
17.	Sewage generation and treatment	• Amount of sewage generation : 12 CMD • Proposed treatment for the sewage: Existing ETP				
18.	Effluent characteristic	Sr. No.	Parameters	Inlet effluent Characteristic	Outlet effluent Characteristic	MPCB/ Standard
		1	pH	4.5 -9.5	7.0 - 7.6	5.5-8.0
		2	COD	3800 - 4360	150 - 200	< 250 (mg/L)
		3	BOD	820 - 1180	25-60	< 100 (mg/L)
		4	TSS	98-125	25-70	< 100 (mg/L)
19.	ETP details	• Amount of Industrial effluent generation : 92 KLD • Amount of treated effluent recycled : 87 KLD •Amount of waste water send to the CETP: Only in Wet Season/ In case of emergency • Membership of the CETP (if require) : Already Member				
20.	Note on ETP technology to be used	The ETP is comprised of primary, secondary & tertiary treatment unit's viz. equalization tank, neutralization tank, aeration tank, primary & secondary clarifiers and final collection followed by RO & MEE of Ipca Unit I.				
21.	Disposal of the ETP sludge (If applicable)	Forwarded to CHWTSDF				
22.	Solid waste Management	Non-Hazardous Waste Handling and Disposal Details				

Sr.No.	Non - Hazardous Waste	Existing	Proposed	Total	Mode of Disposal
1	Empty drums, Carboys etc	30 Nos/M	350 Nos / M	380 Nos / M	Sale
2	Paper waste	1000 kg / M	200 Kg / M	1200 kg / M	Sale
3	M.S.Scrap	1500 kg / M	1500 Kg / M	3000 kg / M	Sale
4	Empty bags	100 kg / M	500 Nos/ M	600 nos / M	Sale
5	Coal Ash	100 kg/M	400 kg/M	500 kg/M	Sale
6	Spent Acid as by-product	-	400 MTPA	400 MTPA	Sale

Hazardous Waste Handling and Disposal Details

Sr. No.	Waste & Category	Waste Generation			Mode of Disposal
		Existing (MTPA)	Proposed (MPTA)	Total (MPTA)	
1	Used/Spent Oil (5.1)	1	0.5	1.5	Sale to authorized party
2	Spent Catalyst/Spent carbon (28.2)	18	18	36	CHWTSDF/ Cement plant
3	Spent mother liquor (28.4)	9	9	18	Sale to Authorized party
4	Discarded containers/ Barrels/ Liner (33.3)	2250	250	2500	To be decontaminated and reuse/sale
5	ETP sludge (34.3)	40	680	720	CHWTSDF
6	Distillation Residue from contaminated organic solvent (36.4)	3.60	24	27.6	CHWTSDF / Cement plant
7	Process waste & residue (28.1)	-	200	200	CHWTSDF/Cement Plant
8	MEE salt (37.3)	-	80	80	CHWTSDF
9	Date expired, discarded & off specification drugs/ medicines (28.5)	-	15	15	CHWTSDF/Cement Plant
10	Off specification product (28.4)	-	5	5	CHWTSDF/Cement Plant
11	Spent ion exchange resin (35.2)	-	4	4	CHWTSDF / Cement Plant
12	Spent Acid	-	400	400	Sale
13	E-waste	-	1	1	Disposal with authorized party

Disposal Method: Sale to authorized party or forwarded to CHWTSDF & Cement Plant.

- What are the possibilities of recovery and recycling of wastes? No possibility
- Possible users of solid waste: Boiler ash Sale to Brick Manufacturer
- Method of disposal of solid waste: Sale to authorized party

23. Atmospheric Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)

Sr. No	Pollutant	Source of Emission	Emission rate (mg/Nm^3)	Concentration in flue gas (g/m3)
	SPM	Boiler 3 TPH	52.37	Negligible
	SO2		9.51	Negligible
	NOx		0.25	Negligible
	CO		Negligible	Negligible
	SPM	Boiler 2 TPH	102.6	Negligible
	SO2		9.91	Negligible
	NOx		0.22	Negligible
	CO		Negligible	Negligible
	SPM	DG Set 1 600 KVA	75.46	Negligible
	SO2		1.45	Negligible
	NOx		0.17	Negligible
	CO		Negligible	Negligible
	Others		-	-

24. Stack emission Details: (All the stacks attached to process units, Boilers, Captive power plant, D.G. Sets, Incinerator both for existing and proposed Activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx etc. should be specified

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Emission Rate (mg/Nm3)	Temp. of Exhaust Gases (°C)
Boiler- 1 (3 TPH)	1	36	0.9	SPM: 52.37 SO2: 9.51 NOx: 0.25	68.4
Boiler- 2 (2 TPH)	2	36	0.9	SPM: 102.6 SO2: 9.91 NOx: 0.22	123.6
DG Set 600 KVA	3	6	0.2	SPM: 75.46 SO2: 1.45 NOx: 0.17	187.7

25. Details of Fuel to be used:

Sr. No	Fuel	Daily Consumption (TPD/ KLD)		Calorific value (Kcals /kg)	% Ash	% Sulphur	
		Existing	Proposed				
1	HSD	300 L/day	-	-	-		
2	Coal /briquettes	15000 Kg/d		4200	28	0.5	0.50.45

Source of fuel: Coal: From Western Coalfield & local Market.

Mode of transportation of fuel to site: By Roadways.

26 Energy

Power supply: MSEDCL
- Existing power requirement : 300 KVA
- Proposed power requirement : 700 KVA

DG sets : 600 KVA (Stand-by)

27 Green Belt Development

- Green belt area: 7455.03 sq. mt.
- Number and species of trees to be planted:

S. No.	Botanical Name	Common Name	Type

			1.	Hyophorbe lagenicaulis	Bottle Palm	Flowering Plant
			2.	Areca catechu	Areca Palm	Tree
			3.	Saraca asoka	Ashok	Tree
			4.	Mangifera indica	Mango	Tree
			5.	Azadirachta indica	Neem	Tree
			6.	Rosa	Rose	Shurb
			7.	Cycas revolute	Cycus	Shurb
			8.	Delonix regia	Gulmohor	Tree
			9.	Cassia fistula	Bahava	Tree
			10.	Mimusops elengi	Bakul	Tree
			11.	Nyctanthes arbor-tristis	Parijatak	Tree
			12.	Bauhinia racemosa	Apta	Tree
			13.	Bombax ceiba	Kate sawar	Tree
			14.	Anthocephallus cadamba	Kadamb	Tree
			15.	Alstonia scholaris	Satwin	Tree
			16.	Citrus sp	Lemon	Tree
			17.	Ziziphus mauritiana	Ber	Tree
			18.	Erythrina indica	Pangara	Tree
			19.	Ficus retusa	Nandruk,	Tree
			20.	Putranjiva roxburghii	Putranjiva	Tree
			21.	Albizia lebbeck	Shirish	Tree
			22.	Bambusea	Golden Bamboo	Grass
			23.	Cordia myxa	Cordia	Flowering Plant
			24	Alstonia macrophylla	Alstonia	Tree
			25	Michelia champaca	Son chafa	Tree
			26	Plumbago zeylanica	White plumbago	Shurb
			27	Adhatoda vasica	Adulasa	Shurb
			28	Bougainvillea spectabilis	Bougainvillea	Flowering Plant
		• Number, size, age and species of trees to be cut, trees to be transplanted: No trees to cut/transplanted.				
28.	Details of Pollution Control Systems:		Sr. No.	Aspects	Existing pollution control system	Proposed to be installed
			1	Air	Mechanical dues collector followed by wet scrubber	Cyclone Separator followed by Bag Filter
			2	Water	Effluent Treatment Plant (ETP) & STP	-
			3	Noise	The Boiler is being kept in an isolated area to have the ambient noise level as per CPCB standards. The workers are provided with proper personal protective equipment (PPE) such as ear plugs, ear muffs etc.	The Boiler would be kept in an isolated area to have the ambient noise level as per CPCB standards. The workers would be provided with proper personal protective equipment (PPE) such as ear plugs, ear muffs

				DG Sets will be used with acoustic enclosures.	etc. The DG sets would be enclosed in canopy as well as silencer.
		4	Solid Waste	Sale/Recycle/disposal to CHWTSDF	Sale/ Recycle/ disposal to CHWTSDF

29 Environmental Management plan Budgetary Allocation

During construction phase: 16 Lakhs
During operation phase:
- Capital cost (With break up): 65 Lakhs
- O&M cost (With break up): 10 Lakhs

During Construction phase:

S.N.	Pollution Control Measures	Capital Cost Per Annum (Lac)
1.	Dust suppression during construction	3
2.	Green Belt development	6
3.	Solid waste management facility	3
4.	Environment Monitoring	2
5.	Occupational Health	2
	Total	16

During operation phase:

S.N.	Pollution Control Measures	Recurring Cost per annum Rs. (Lakhs)	Capital Cost Rs. (Lakhs)
	Air Pollution Control	0.5	8.0
	Water Pollution Control	1.0	
	Noise Pollution Control	0.5	
	Environment Monitoring and Management	2.0	2.0
	Occupational Health	2.0	5.0
	Green Belt	2.0	10.0
	Solid waste management	1.0	5.0
	Rainwater Harvesting	1.0	5.0
	CSR Activity	0.0	30.0
Total EMP Cost		10.0	65.0

30.	EIA Submitted (If yes then submit the salient features)	•Period of data collected	March to May 2016
		•Details of the primary data collection (i.e. location of the sample collection, number of visit, etc)	Refer
		•Details of the secondary data collection (i.e. Source and year of data)	India Meteorological Department, Pune
			National remote sensing centre, Hydcrabad
			Geological Survey of India, Pune (Year-2011)
			Directorate of Census Operations, Maharashtra (Year 2001 & 2011)
		•Potential hazard and mitigation measures	
		•Conclusion of the EIA study	
31	Public hearing report	Not applicable, project site is located in MIDC Waluj.	

The PP gave a detailed presentation for their project for augmentation of production of APIs from 347 MT/A to 539 MT/A. The Committee considered the project under category 5(f)-B1 of the schedule of the EIA Notification 2006.

Member Secretary

Chairman

The ToR was approved in the 131st meeting and a sub-committee also visited the plant on 16.9.2016. [site visit report is enclosed as ***Annexure 12.1***]

After detailed discussion the Committee made the following observations:

1. The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.
2. PP shall ensure that the production process avoids use of EDC (Ethylene Dichloride) and Tetra Chloro Ethane (TCE). Special attention should be given to Copper Cyanide handling and Dimethyl Formanide (DMF) shall be recovered by minimum of 15 stage distillation column.
3. The project will be run as a Zero Liquid Discharge System. Effluent stream shall be segregated into High TDS and Low TDS streams. Former will be led into solvent stripper, MEE and ATFD to generate dry salts which shall be sent to the TSDF (300 kg/day). Latter stream will be led to 80 KLD ETP thereafter RO. The condensate of RO and treated effluent shall be recycled to cooling tower effluent of 87 KLD. 27 KLD RO rejects will be treated in MEE.
4. The MEE and RO will be located in sister unit of PP, located 500m from the plant. The effluent shall be transported through pipeline to said MEE and RO and condensate shall be recycled to the plant for reuse.
5. PP shall ensure that electronic flow meter shall be installed at both ends of these pipelines to avoid indiscriminate disposal of high TDS effluents in the environment.
6. For sludge drying solar based bed shall be employed.
7. PP wants to add additional 3 TPH boiler in an existing 2 TPH boiler both coal fired. Emissions from boilers will be sent to cyclone separator followed by bag filter to achieve an outlet TPM of <100 mg/Nm^3. Boilers will have stack of height 36m. DG set of 100 KVA shall have a stack of height 6m above the roof level.
8. The PP shall store hazardous waste in an elevated platform covered area and avoid leachate entering the Nalla. Caustic lye shall be converted to salt and sent to CHWTSDF. PP shall ensure that Nalla is not contaminated either by process effluents, floor washing or storm water.
9. There shall be a facility for storage of fly ash for 7 days.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (2-9) conditions.

"Annexure 12.1"

Visit report- M/s. Tapa Laboratories Ltd.

Date- 16.9.2016

A sub-committee comprising of following members visited the site on 16.9.2016 along with Dr. Sangawar, RO Aurangabad, MPCB and Shri. Kadam, SRO Aurangabad, MPCB and industry representative Shri. Srivastava and others -

1. Shri. T. C. Benjamin, Chairman
2. Prof. (Dr.) Ramesh Dod, Member
3. Shri. C. I. Sambutwad, Member
4. Shri. B. H. Sehgal, Member

The sub-committee made the following observations:

I. The sub-committee noted that the industry is in operation since 2000 but the PP has not obtained the Environmental Clearance even though their manufacturing activity falls under 5(f) of the EIA Notification 2006.

II. It was suggested by the sub-committee that one more gate should be provided considering the safety of people working during emergency.

III. The sub-committee has observed that PP is using Sludge Drying Bed for sludge dewatering, however the sub-committee has recommended the use of decanter for the same.
No Sludge Drying Bed should be operative within the premises.
Scientific arrangement in the form of elevated platform and covered shed for temporary storage of ETP sludge should be made.

IV. The PP should obtain the MIDC water consent/permission letter and submit the same at the time of EIA presentation.

V. The sub-committee has noted that TPM levels at the outlet of stack is more than 100 mg/Nm^3. PP is instructed to improve the air pollution control system [bag filter] in a time bound manner so as to ensure the outlet TPM ≤ 100 mg/Nm^3.
The RO Aurangabad, MPCB should submit a report of this compliance within a month.

VI. The sub-committee has noted that water requirement and effluent generation is not realistic and need to be reworked, considering the recycling of treated effluent to the best possible extent.

VII. The existing practice of sending the high TDS effluent stream to sister concern is needs to be discontinued and PP should provide RO and MEE of required capacity to treat high TDS stream in-house at the earliest. This was one of the ToR requirement also.

T.C.Benjamin Chairman | C.I. Sambutwad Member | Ramesh Dod Member | B. H. Sehgal Member

Member Secretary

Chairman

Item no. 13	**M/s. Essar Oil Ltd.** EC for proposed project for greenfield petroleum storage depot of capacity 36, 180 KL at Khasrano. 108 /109 /110 /111 /112 /113 /115 /119A1 /119A2 /119A3 /119A4 /119A5/119B, Neemgaon, Wardha

The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	**M/s. Essar Oil Limited**
2	Name, address, e-mail & contact number of Proponent	**Mr. Ajit Mishra** Essar Oil Limited - Head Marketing Tower No. 2, Equinox Business Park Off Bandra Kurla Complex, LBS Marg, Kurla (West) Mumbai – 400 070, Maharashtra
3	Name of Consultant	• Name: M/S. Ultratech
4	Accreditation of consultant (NABET Accreditation)	S.N. 138 of LIST 'A' of MoEF – Rev. 45 September 05, 2016
5	New Project / Expansion in existing project/ Modernization/ Diversification in exiting project	New Project
6	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	Not Applicable
7	Activity schedule in the EIA Notification	6b) **'B'**
8	Area Details	**Total plot area** : 2,10,000, sq. mt. **Built up area** : 4,735 sq. mt. **Green Belt** : 63,000 sq. mt. **Parking Area** : 5000 sq. mt.
9	Name of the Notified Industrial area / MIDC Area	Not Applicable
10	TOR given by SEAC? (If yes then specify the meeting)	Yes, 123rd SEAC- I meeting dated : 11th March 2016
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	

Sr. No.	Particular	Cost (Rs Crores)
1	Basic Engineering	0.62
2	Civil facilities	37.14
3	Mechanical	31.96
4	Electrical	4.45
5	Instrumentation	8.57
6	Fire Fighting	9.53
7	Environmental Protection	1.73
	Total	**94.00**

12	Location details of the project :	• **Latitude** : Approx. 20.729464 N • **Longitude** : Approx. 78.477927 E • **Location** : At Village – Neemgaon, Dist Wardha, Maharashtra • **Elevation above Mean Sea Level**: 863- 880 ft
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	No such establishment with in 10 Km. Radius (Study area)
14	Raw materials (including process chemicals, catalysts, & additives)	Not Applicable

15 Production details

SN	Tank No.	Product	Type of Tank	Capacity, m^3	Class
1	TK-1001	MS	IFVRT	2000	A
2	TK-1002	MS	IFVRT	2000	A
3	TK-1003	MS	IFVRT	2000	A
4	TK-1004	MS	UG.HOR	70	A
5	TK-1005, 6, 7 (Future Expansion)	MS	IFVRT	2000	A
6	TK-2001	HSD	CRVT	4000	B
7	TK-2002	HSD	CRVT	4000	B
8	TK-2003	HSD	CRVT	4000	B
9	TK-2004	HSD	UG.HOR	70	B
10	TK-2005, 6, 7 (Future Expansion)	HSD/SKO	CRVT	4000	B
11	TK-3001	ETHANOL	UG.HOR	20	A
12	TK-3002	ETHANOL	UG.HOR	20	A
13	TK-4001	SLOP	UG.HOR	5	-
14	TK-5001	Water	CRVT	1950	-
15	TK-5002	Water	CRVT	1950	-
16	TK-5003 (Future Expansion)	Water	CRVT	1950	-

16	Process details / manufacturing details	The entire operation consists of RECEIPT, STORAGE AND DISPATCH of petroleum products and will be carried out in a closed system. No manufacturing activity will be done. The site is proposed only for storage and distribution of finished petroleum products
17	Rain Water Harvesting (RWH)	1 Pond (NW side of the plot): 1800 m^3
18	Total Water Requirement	Total water requirement: Fresh water (CMD): 25 & Source: Proposed Bore Well
19	Storm water drainage	Natural storm water drainage pattern: No disturbance.
20	Sewage generation and treatment	• Amount of sewage generation : 10 CMD • Proposed Treatment: Treated in OWS of capacity 55 m^3/hr. • Capacity of STP: 10 CMD
21	Effluent characteristic	STP effluent characteristics are as mentioned below:

N.	Parameters	Influent Stream	Treated effluent	Effluent Discharge Standards
1	pH	5.5- 7.5	7.5 to 8.0	7.5 to 8.0
2	TSS	100 mg/L	< 100 mg / lit.	< 100 mg / lit.
3	BOD	500 mg/L	<100 mg / lit.	<100 mg / lit.
4	COD	800 mg/L	<250 mg / lit.	<250 mg / lit.
5	TDS	400 mg/L	<2100 mg / lit.	<2100 mg / lit.
6	Oil and Grease	50 mg/L	<10 mg / lit.	<10 mg / lit.

OWS will be designed to achieve oil content of less than 10 ppm

22	ETP details	• Capacity of the OWS :55 m^3/hr. • Amount of treated effluent recycled (CMD) : -- • Amount of water send to the Sewer Line (CMD) : -- • Membership of the CETP (If required) : --
23	Note on ETP technology to be used	OWS will have baffle arrangements so that oil will come to surface and collected separately.

<table>
<tr><td>24</td><td>Disposal of the ETP sludge (If applicable)</td><td>Hazardous waste will be sent to CHWTSDF at Mandwa, Nagpur</td></tr>
<tr><td>25</td><td>Solid waste Management</td><td>Non Hazardous Solid Waste:
<table>
<tr><th>Sr. No</th><th>Waste</th><th>Quantity</th><th>Disposal</th></tr>
<tr><td>1</td><td>Dry Garbage</td><td>6 Kg/day</td><td>Hand over to authorized recyclers</td></tr>
<tr><td>2</td><td>Wet Garbage</td><td>2.5Kg/day</td><td>Vermi Composting (off-site)</td></tr>
</table>
Hazardous Waste:
<table>
<tr><th>Sr. No.</th><th>Schedule I Category No. Type</th><th>Qty</th><th>Method of Disposal</th></tr>
<tr><td>1</td><td>Category No. 34.3 Oil Water Sludge – generated from cleaning of storage tanks once in 5 years</td><td>5 MT per year (approx)</td><td>CHWTSDF at Mandwa, Nagpur</td></tr>
</table>
➢ Hazardous waste is to be sent to CHWTSDF for Disposal
➢ Plastic drums and bags will be sold to MPCB authorized party
➢ Non Biodegradable Waste if any will be handed over to MPCB authorized recycler
➢ Biodegradable waste will be composted and used as manure for landscaping</td></tr>
<tr><td>26</td><td>Atmospheric Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)</td><td>Not Applicable</td></tr>
<tr><td>27</td><td>Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg / hr) for each pollutant (SPM, SO2, NOx etc. should be specified</td><td>
<table>
<tr><th>Plant Section & units</th><th>Stack No.</th><th>Height from ground level (m)</th><th>Internal Dia. (Top) (m)</th><th>Emission Rate</th><th>Temp. of Exhaust Gases</th></tr>
<tr><td>DG Set</td><td>1</td><td>6 above roof</td><td>0.5</td><td>3000</td><td>160 °C</td></tr>
<tr><td>DG Set</td><td>2</td><td>6 above roof</td><td>0.5</td><td>3000</td><td>160 °C</td></tr>
</table>
</td></tr>
<tr><td>28</td><td>Details of Fuel to be used:</td><td>
<table>
<tr><th>SN</th><th>Fuel</th><th>Daily Consumption</th></tr>
<tr><td>1</td><td>Diesel</td><td>288 L/hr</td></tr>
</table>
• Source of Fuel: Local
• Mode of transportation of fuel to site: By Road</td></tr>
<tr><td>29</td><td>Energy</td><td>Power supply : From MSEDCL – 2200KW
DG sets : 2 x 900 kVA.
Renewable Source : PV panels to be installed on admin block admeasuring 200 m^2 to generate about 20 KW energy.</td></tr>
<tr><td>30</td><td>Green Belt Development</td><td>Green belt area (Sq. m.) : 63,000 sq. mt. (33 % of Open Area)
Number and species of trees to be planted: 650 nos.
Number, size, age and species of trees to be cut, trees to be transplanted:0</td></tr>
<tr><td>31</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><th></th><th>Existing Pollution Control System</th><th>Proposed to be Installed</th></tr>
<tr><td>Air</td><td>--</td><td>DG Set stacks of 6m above roof for a capacity of 2x900 kVA</td></tr>
<tr><td>Water</td><td>--</td><td>OWS will be provided with the capacity of 55 m^3/hr
STP of capacity 10 CMD shall be provided</td></tr>
</table>
</td></tr>
</table>

		Noise	--	➢ Acoustic Enclosure for DG sets. ➢ Ear mufflers and ear plugs ➢ Green Belt plantation
		Solid Waste	--	Hazardous Waste shall be disposal to CHWTSDF Mandwa , Nagpur Non- hazardous waste will be disposed per MSW rules

32	Environmental Management plan Budgetary Allocation	

S N	Environmental Aspect	Capital Expenditure (In Crores)	Recurring Expenditure (In Crores)
1.	Emission Control and Engineering (VRS, Al dome/IFR)	7.5 (5 Cr for VRS + 3X0.5 for IFRS)	0.23 (3%)
2.	Water and Wastewater Management (Mech OWS/ETP)	1.6	0.16(10%)
3.	Solid Waste Management (Sludge pit/ Bio-remediation)	0.1	0.01 (10%)
4.	Greening Drive	0.15	0.08 (50%)
5.	Process Safety Facilities and EMP and Funds for HSE (Fire water storage/ FH system, AOPS, Safety PLC, HCD, Radar gauge etc)	14.0 (9 CR for F/F & 5Cr for Part OF automation)	0.42(3%)
6.	Lab Equipments and Monitoring Cell	0.5	0.05(10%)
	TOTAL	**23.85**	**0.95**

33	EIA Submitted (If yes then submit the salient features)	Yes
34	Public hearing report (If public hearing conducted then submit the salient features)	Yes
35	Air pollution, water pollution issues in the project area, If any	No

36. Storage of chemicals (inflammable/explosive/hazardous/toxic substances):

SN	Tank No.	Product	Type of Tank	Capacity, m^3	Class
1	TK-1001	MS	IFVRT	2000	A
2	TK-1002	MS	IFVRT	2000	A
3	TK-1003	MS	IFVRT	2000	A
4	TK-1004	MS	UG.HOR	70	A
5	TK-1005, 6, 7 (Future Expansion)	MS	IFVRT	2000	A
6	TK-2001	HSD	CRVT	4000	B
7	TK-2002	HSD	CRVT	4000	B
8	TK-2003	HSD	CRVT	4000	B
9	TK-2004	HSD	UG.HOR	70	B
10	TK-2005, 6, 7 (Future Expansion)	HSD/SKO	CRVT	4000	B
11	TK-3001	ETHANOL	UG.HOR	20	A
12	TK-3002	ETHANOL	UG.HOR	20	A
13	TK-4001	SLOP	UG.HOR	5	-
14	TK-5001	Water	CRVT	1950	-
15	TK-5002	Water	CRVT	1950	-
16	TK-5003 (Future Expansion)	Water	CRVT	1950	-

The project was considered under 6(b)-B1 category of EIA Notification 2006. The PP gave a detailed presentation of their proposal for establishing Greenfield Petroleum Storage Depot of 36,180 KL comprising of 6 x 2000m^3 overhead tank for motor spirit, 6 x 4000m^3 tank for HSD/SKO, 2 x 20m^3 overhead tanks for Ethanol and 2 x 70m^3 underground tanks for slop.

After detailed discussion the Committee made the following observations:

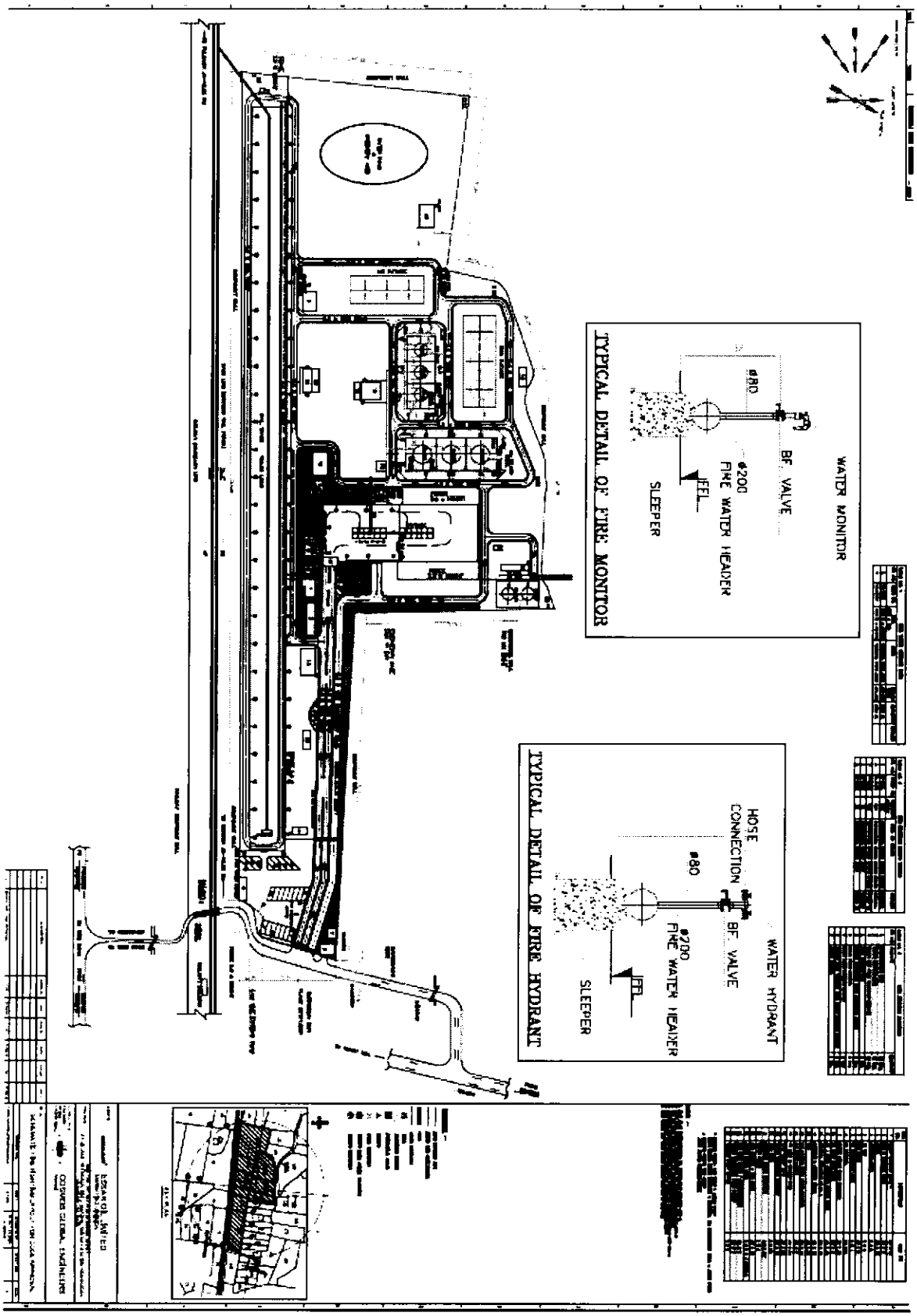
1. The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.
2. The project envisages use of ground water for all the water requirements. The PP has submitted a certificate for requirement of 25 CMD water which can be met through borewell. It will not only cater to process requirement but also supply for top-up fire water tank.
3. At Construction phase a mobile STP of sufficient capacity and at operation phase 10 CMD STP shall be installed. Treated water shall be used for gardening.
4. DG set of 2 x 900 KVA will have a stack of height 6m above highest rooftop level.
5. PP shall resort to rain water harvesting through a pond of 1800 m^3 which shall be lined. PP shall tap solar energy to the extent of 20 KW however, the PP should try to augment this generation of electricity by solar energy by installing solar panel on open area available to ensure 100% solar based illumination of the plant.
6. Road in front of main entrance leading to railway line and beyond poses traffic problems during emergency. For this purpose PP shall widen the road fronting their entrance upto 500m to the North and till the railway crossing in the south to a width of 7m (2 lanes). No on-street parking should be allowed. If the vehicles have to be evacuated they will cross the railway line and proceed towards highway. In case level crossing is not open, then they will be diverted to the Northern side sufficiently away from the plant for parking.
7. Risk Assessment and Risk Mitigation Studies were carried out. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration. Diagram enclosed in the ***Annexure 13.1*** gives the layout of the plot with the all hazard management facilities. Maharashtra Pollution Control Board (MPCB) should verify the provision of these facilities before granting Consent to Operate.
8. There should be online monitoring of VOCs/ Hydrocarbon using Photoionization detection based VOC monitoring system.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (2-8) conditions.

Member Secretary

Chairman

"Annexure 13.1"



Item no. 14	**M/s. Shri Dnyaneshwar Sahakari Sakhar Karkhana Ltd.** For proposed expansion of sugar capacity 7000 TCD and Co-gen 31.5 MW at Village Bhende B. k., Taluka Newasa, Ahmednagar.

The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	M/s.Shri Dnyaneshwar SSK Ltd,
2	Name, address, e-mail &contact number ofProponent	Name: Mr Anil P. Shewale, Managing Director Address:Village-BhendeBk Tal.–Newasa Dist.– Ahemadnagar 414605 Telephone number:02427- 255525/6/7 Email ID:dsskltd@gmail.com
3	Name of Consultant	Ultra-Tech
4	Accreditation ofconsultant(NABETAccreditation)	Ultra- Tech Environment consultancy and Lab (Lab. MoEFgazetted). NABET/EIA/1417/RA010
5	New Project / Expansion in existing project/Modernization/Diversification in exiting project	Modernization for Sugar &Expansion for co-gen
6	If expansion/Diversification, whetherenvironmental clearancehas been obtained forexisting project (If yes,enclose a copy withcompliance table)	Environmental Clearance was not required for existing Sugar Unit. Environmental clearance has been obtained for existing distillery unit & co-gen unit from MoEF, New Delhi.
7	Activity schedule in theEIA Notification	5 (j)- Sugar 1(d) – Co-Gen Power
8	Area Details	Total plot area (Sq. m.):1320000 Built up area (Sq. m.)18000
9	Name of the Notified Industrial area / MIDC Area	Project is not in notified Industrial area / MIDC Area.
10	TOR given by SEAC? (If yes then specify the meeting)	TOR received during 117th SEAC I meeting.
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Rs. 96.90Crores
12	Location details of the project :	Latitude: Approx. 19°26'59.65"N Longitude: Approx. 75° 2'13.27"E Location: Village- BhendeBk Tal. – Newasa Dist. – Ahemadnagar 414605 Elevation above Mean Sea Level (meters): 523
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	No such establishment within 10 Km. Radius (Study area)
14	Raw materials (including process chemicals, catalysts, &additives)	

#	RawMaterial	Quantity/day
1.	Sugarcane	7000TPD
2.	Sulfur	3.6 T
3	Lime	12.5 T
4	Baggasse in season	1761 TPD

15 Production details

#	Production Unit	No.	Cat	Unit	Proposed Capacity		
					Existing	Add	Total
1	Sugar	5(j)	B	TCD	5000	2000	7000
2	Co-Gen Power	1(d)	B	MW	12	19.5	31.5

<table>
<tr><td>16</td><td>Process details / manufacturing details</td><td>For sugar: This is a simple three step process namely Cane milling, Evaporation and Crystallization.
For Co-Gen Power:This is a simple three step process namely Water preparation, Steam Generation and Power Generation.</td></tr>
<tr><td>17</td><td>Rain Water Harvesting(RWH)</td><td>Level of the Ground water table: NA.
Size and no of RWH tank(s) and Quantity: NA
Location of the RWH tank(s): NA
Size, nos of recharge pits and Quantity: NA
Budgetary allocation (Capital cost and O&M cost): NA
O & M cost Rs.NA</td></tr>
<tr><td>18</td><td>Total Water Requirement</td><td>Total water requirement:4515
<table>
<tr><th>Sr. No</th><th>Category</th><th>Water Consumption (M^3 /Day)</th><th>Loses (M^3 /Day)</th><th>Effluent Generation (M^3 /Day)</th><th>Disposal</th></tr>
<tr><td>1</td><td>Processing</td><td>2012</td><td>1779</td><td>233</td><td rowspan="8">Total 761 m^3 effluent & excess Spray pond water would be treated in full-fledged ETP</td></tr>
<tr><td>2</td><td>Cooling</td><td>1074</td><td>958</td><td>116</td></tr>
<tr><td>3</td><td>Boiler/DM</td><td>1050</td><td>873</td><td>177</td></tr>
<tr><td>4</td><td>Lab & Washing</td><td>30</td><td>10</td><td>20</td></tr>
<tr><td>5</td><td>Brushing</td><td>163</td><td>47</td><td>116</td></tr>
<tr><td>6</td><td>Mill Bearing</td><td>41</td><td>0</td><td>41</td></tr>
<tr><td>7</td><td>Vacuum pump sealing</td><td>145</td><td>87</td><td>58</td></tr>
<tr><td></td><td>Total</td><td>4515</td><td>3754</td><td>761</td></tr>
<tr><td></td><td>Gardening</td><td>761</td><td>-</td><td>-</td><td></td></tr>
</table></td></tr>
<tr><td>19</td><td>Storm water drainage</td><td>Natural water drainage pattern: NA
Quantity of storm water: NA
Size of SWD: NA</td></tr>
<tr><td>20</td><td>Sewage generation and treatment</td><td>Amount of sewage generation (CMD): 28m^3/d
Proposed treatment for the sewage: Upto Tertiary Treatment recycled for gardening.
Capacity of the STP (CMD) - 35
Soak pits already provided. STP shall be provided in proposed phase</td></tr>
<tr><td>21</td><td>Effluent characteristic</td><td>
<table>
<tr><th>SR. NO.</th><th>PARAMETER</th><th>RAW EFFLUENT</th><th>TREATED EFF. QUALITY (MPCB LIMITS)</th><th>UNITS</th></tr>
<tr><td>1.</td><td>pH</td><td>3.2 – 4.5</td><td>6.5-8.5</td><td>--</td></tr>
<tr><td>2.</td><td>B.O.D</td><td>2000</td><td>Max. 100</td><td>Mg/lit.</td></tr>
<tr><td>3.</td><td>C.O.D</td><td>4000</td><td>Max. 250</td><td>Mg/lit.</td></tr>
<tr><td>4.</td><td>T.S.S.</td><td>162</td><td>Max. 100</td><td>Mg/lit.</td></tr>
<tr><td>5.</td><td>Oil & grease</td><td>5</td><td>Max. 10</td><td>Mg/lit.</td></tr>
</table></td></tr>
<tr><td>22</td><td>ETP details</td><td>Amount of effluent generation (CMD):761m^3/day
Amount of treated effluent recycled (CMD):761m^3/day (direct recycle)
Capacity of the ETP (CMD): 1500m^3 (Existing + Proposed)
Amount of water send to the Sewer Line (CMD):Nil
Membership of the CETP (If require): No</td></tr>
<tr><td>23</td><td>Note on ETP technology to be used</td><td>Effluent Treatment Plant :
This is sober water except temperature, comes from cooling-purging and boiler blow-down. A detention tank with suitable holding capacity and shallow depth shall be provided. The water after cooling will be suitable for irrigation purpose. As an alternative, this will be used as diluents to moderate effluent, stream (B) below and further treated.
The Moderately polluted wastewater is the floor vessel washing, de-min plant, laboratory and process, which has low pH and has organic matter. After the pH correction of this stream, it will be taken to bio-oxidation, followed by tertiary treatment by way of dual media filter,which can be</td></tr>
</table>

<table>
<tr><td></td><td></td><td>disposed on land for irrigation or re-cycled to plant. This can also take care of condensate water.</td></tr>
<tr><td>24</td><td>Disposal of the ETP sludge (If applicable)</td><td>To be sent to Composting.</td></tr>
<tr><td>25</td><td>Solid waste Management</td><td>Non Hazardous Solid waste:
<table>
<tr><th>Waste</th><th>Qty</th><th>Treatment</th><th>Disposal</th></tr>
<tr><td>Canteen</td><td>35 kg/day</td><td>Vermi-composting</td><td>Own Garden</td></tr>
<tr><td>ETP Sludge</td><td>60 kg/day</td><td>Composting</td><td>Sales</td></tr>
<tr><td>Sweepings</td><td>35 kg/day</td><td>Segregation</td><td>Sales</td></tr>
<tr><td>Garden trash</td><td>30 kg/day</td><td>Collection</td><td>Mulching</td></tr>
<tr><td>Ash</td><td>32 T /day</td><td>Collection</td><td>Brick kiln & composting</td></tr>
</table></td></tr>
<tr><td>26</td><td>Atmospheric Emissions(Flue gas characteristics
SPM, SO2, NOx, CO, etc.)</td><td>
<table>
<tr><th>#</th><th>Source</th><th>Pollutant</th><th>In-plant Measures</th><th>Control Equipment</th></tr>
<tr><td>1</td><td>Boiler</td><td>SPM, CO</td><td>Dry Baggasse boiler feed</td><td>ESP&dispersion through tall Stack with height as per MoEF/ CPCB design.</td></tr>
<tr><td>2</td><td>D. G. Sets</td><td>SO_2</td><td>As per CPCB norms</td><td>--</td></tr>
<tr><td>3</td><td>ETP</td><td>CO_2</td><td>Closed conduit</td><td>Fully Aerobic. No cess-pool.</td></tr>
</table></td></tr>
<tr><td>27</td><td>Stack emission Details:
(All the stacks attached to process units, Boilers, captive power plant, D.G.Sets, Incinerator both forexisting and proposedactivity). Please indicatethe specific section towhich the stack is attached.e.g.: Process section, D.G.Set, Boiler, Power Plant,incinerator etc.
Emissionrate(kg/hr) for each pollutant (SPM, SO2, NOx etc. should be specified</td><td>Existing boiler will be removed and new 110TPH boiler will installed.
4 existing boilers of 20, 20, 30 and 40 tph will be removed
<table>
<tr><th>Sr. No.</th><th>Chimney attached to</th><th>Stack ht.</th><th>MPCB Limits SO2 Kg/ day</th></tr>
<tr><td></td><td>Boiler No.1 80 tph</td><td>76 mt.</td><td></td></tr>
<tr><td></td><td>Boiler 2 110 (Proposed)</td><td>86 mt.</td><td>--</td></tr>
<tr><td>2</td><td>DG set 2 Nos, 400 KVA each (Existing)</td><td>4.0 mt</td><td>28.8</td></tr>
<tr><td></td><td>DG set 1 No. 1000 KVA (Proposed)</td><td>7.0 m</td><td>--</td></tr>
</table></td></tr>
<tr><td>28</td><td>Details of Fuel to be used:</td><td>Baggasse: 1761 TPD
Source of fuel:Owned factory
Mode of transportation of fuel to site:By Road</td></tr>
<tr><td>29</td><td>Energy</td><td>Power supply: Existing + proposed 1500KW
DG sets:
Number and capacity DG sets to be used: 3 Nos.
2 nos. of 400 KVA & 1 no. of 1000 KVA.
Details of the non-conventional renewable energy proposed to be used :NA</td></tr>
</table>

<table>
<tr><td>30</td><td>Green Belt Development</td><td>Green belt area (Sq. m.):4.50,000
Existing No. of trees: 30,000 & proposed 10,000Nos.
Number, size, age and speeies of trees to be cut, trees to be transplanted: Nil</td></tr>
<tr><td>31</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><td>S. No.</td><td></td><td>Existing</td><td>Proposed to be installed</td></tr>
<tr><td>i)</td><td>Air</td><td>-</td><td>Dust Colleetor & Serubber for Steam Boiler& Stack as per MPCB</td></tr>
<tr><td>ii)</td><td>Water</td><td>Domestic Effluent to ETP after septic tank.
Full fledged Primary, Secondary and Tertiary for Trade Effluent, fully aerobic ETP</td><td>Domestie Effluent to ETP after septic tank.
Full fledged Primary, Seeondary and Tertiary for Trade Effluent, fully aerobic ETP</td></tr>
<tr><td>iii)</td><td>Noise</td><td>Aeoustie enelosures will be provided to D.G. Set.
The noise levels in the day time shall be maintained 75dB(A) and 70 dB(A) during night time.
Trees act as a Noise Buffer.</td><td>Acoustic enclosures will be provided to D.G. Set.
The noise levels in the day time shall be maintained 75dB(A) and 70 dB(A) during night time.
Trees aet as a Noise Buffer.</td></tr>
<tr><td>iv)</td><td>Solid Waste</td><td>Composting or To Authorised Ageney</td><td>Composting or To Authorised Agency</td></tr>
</table>
</td></tr>
<tr><td>32</td><td>Environmental Management plan Budgetary Allocation</td><td>7.6 Crore</td></tr>
<tr><td>33</td><td>EIA Submitted (If yes then submit the salient features)</td><td>Purpose of this Report is to examine whether our efforts address all the published requirements of Ministry of Environment and Forests, New Delhi; such as
All options to be explored, not merely the site.
Land to be Minimum, Load-bearing, Level, and without Rain-wash pollution possibilities.
Water consumption to be Minimum, no encroachment on others existing source, and recovery-recycling to be practieed.
Wastewater to be segregated and accordingly treated.
Land should not come in the migration route of wildlife and transitory birds.
Consideration of aesthetics (odour and noise nuisance) is necessary.
Proper Green Belt to be designed (CPCB Guidelines are available).
Transportation risk to be minimized.
Rehabilitation or resettlement if involved must be resolved smoothly.
In all above efforts, transparent approach must be maintained.
This is attempted here by keeping the following objectives:
To know the existing environmental status.
To estimate the future pollution load.
To design preventive and curative steps so that any probable significant impact can be tumed insignificant first by control measures and inconsequential next by further mitigation measures.
To superimpose the future resultant pollution load on existing environmental conditions due to the proposed activity.
To understand the views of other departments and ineorporate measures to fulfill the statutory requirements.
To prepare an environmental management plan (EMP) including monitoring schedule to serve as "Watch-dog"
To make this Report available to all stake-holders so as to be useful.
There are no litigation pending against the project and/ or any direction / order passed be any court of law against the projeet.</td></tr>
</table>

Member Secretary

Chairman

34	Public hearing report (If public hearing conducted then submit the salient features)	As per requirement of the Notification, MPCB conducted public consultation and the report is submitted to MoEF, submitted copy along with EIA report.

35 Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

#	Name	Number of Storage's	Maximum Quantity of storage at any point of time
1	Alcohol	4	3200 KLD
2	Sulphuric acid	1	20 KL
3	Molasses storage	5	22000 MT

The project was considered as category 5 (j)-B1 for sugar unit and 1(d)-B1 for co-gen plant as per the EIA Notification 2006. The PP envisages augmenting the sugar production from 5000 TCD to 7000 TCD and co-gen plant from 12 MW to 31.5 MW, simultaneously improving the quantity and quality of sugar through use of modern equipments. ToR was approved in the 117th meeting and also a sub-committee visited the plant on 28.9.2016 (visit report enclosed as ***Annexure 14.1***)

After detailed discussion the Committee made the following observations:

1. Proposed expansion as per the baseline studies will not increase environmental parameters beyond prescribed limits.
2. To conserve water PP should adopt drip irrigation as the only mode of irrigation. Presently PP has achieved 25% of their cane growing area under drip irrigation therefore the Committee desired that entire cane growing area should be covered under drip irrigation by 2025.
3. Bagasse generation is 1900 MT/day and bagasse requirement is 1853 MT/day during season. Therefore PP will not have to source bagasse from outside. No fuel other than bagasse shall be used. There will not be any co-generation in the off-season.
4. PP intends to scrap their 2 x 20 TPH and 30 TPH boilers and retain 80 TPH and 40 TPH boilers. In addition PP wants to install one 110 TPH boiler. All the boilers shall be using bagasse as a fuel. Stack height for 80 TPH, 40 TPH & 110 TPH boilers will be 76m, 65m & 85m respectively. The flue gases shall be passed through multicyclone and ESP of sufficient capacity to achieve an outlet TPM of < 100 mg/Nm^3.
5. The existing facility has an ETP of 1500 CMD as design capacity. The PP will be required to send excess spray pond water to ETP for treatment and outlet effluent shall be reused/recycled in PP's own premises to achieve a Zero Liquid Discharge.
6. A STP of 35 CMD shall be installed and treated water shall be used for gardening.
7. The PP has claimed that no additional water will be required for proposed sugar manufacturing. However expansion for the co-generation plant additional water of 200 CMD will be required. No water will be required for cooling.
8. Sludge shall sent to mechanical sludge dewatering.
9. Silos to store fly ash for a minimum of 7 days shall be installed in the factory premises.
10. Risk Assessment and Risk Mitigation Studies were carried out by the PP. The Committee desired that dyke wall of proper dimension shall be constructed for containment of spillages.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (2-10) conditions.

Member Secretary

Chairman

"Annexure 14.1"

Visit report- M/s. Shri Dnyaneshwar Sahakari Sakhar Karkhana Ltd. Taluka- Newasa, District- Ahmednagar

Date- 28.09.2016

In pursuant to the decision taken in the 135th SEAC-I meeting, a sub-committee comprising of following members visited the site on 28.9.2016 along with Field Officer of MPCB and representatives of industry -

1. Shri. T. C. Benjamin, Chairman
2. Prof. (Dr.) Ramesh Dod, Member
3. Shri. C. I. Sambutwad, Member

A sub-committee made the following observations.

I. The PP has agreed to fully adopt drip irrigation system for the sugarcane area by 2025 and was asked to submit the board resolutions in this regard.

II. The PP is asked to submit the revised water budget considering the best possible water conservation measures.

III. The sub-committee has suggested to submit the water permission from Irrigation Deptt. for sugar expansion and co-generation plants at the time of EIA presentation.

IV. It was noted by the sub-committee that existing boilers of 20 TPH (02) and 30 TPH (01) were to be replaced with 80 TPH, new boilers with multicyclone and wet scrubber as Air Pollution Controlling devices. However, the sub-committee has noted that PM_{10} levels in the surrounding area are nearing 100 mg/Nm^3 and hence has recommended to install the ESP for the boilers. One more boiler of 110 TPH for the co-generation will be provided having ESP as APC system.

V. The existing facilities having ETP of 1500 CMD as designed capacity. The sub-committee has suggested that the excess spray pond water to be taken to ETP for treatment and shall be 100% reused/ recycled within the own premises so as to make the unit as Zero Liquid Discharge System. Dom Sewage 35 cmd

VI. The PP has claimed that no additional water will be required for the proposed expansion of sugarcane crushing and for expansion in co-generation, additional water of 200 CMD will be required. This is due to back pressure route co-generation technique, in which no water is required for curling purpose.

VII. Mechanical sludge dewatering unit to be installed by PP in place of sludge drying bed.

Member Secretary

Chairman

VIII. The sub-committee has suggested minimum of 7 days storage facility for fly ash storage and 15 days storage facility for storing the treated water.

IX. The sub-committee has suggested to collect the domestic sewage and treat it in a STP of suitable size and recycle the treated sewage for gardening.

X. The PP has to provide details of the emissions and APC to show that outlet TPM is less than 50 mg/Nm^3.

This becomes all the more relevant in the light of air pollution induced diseases prevailing in the vicinity in an abnormal manner. The statistics of incidence of such diseases collected from PHC, Kolkane, 3 km from the factory site is depicted below.

year	Upper respiratory tract infections	COPD	Bronchitis
2014-2015	5230	50	---
2015-2016	6370	71	2

T.C.Benjamin
Chairman

Ramesh Dod
Member

C.I.Sambutwad
Member

Item no. 15	**M/s. Eternis Fine Chemicals Ltd.** For expansion of our existing project at MIDC-Kurkumbh, Plot no. D-9/1, D-9/2, D-9/3 & D-15, Taluka- Daund, Pune.

PP remained absent hence **deferred.**

Item no. 16	**M/s. Ambernath Organics Pvt. Ltd.** Proposed Synthetic organics at plot no. 21/2, Dhatav MIDC Roha Raigad

PP remained present, the Committee pointed out that in the 130th meeting decision was taken that the project was located in an area which appears as Ecologically Sensitive in the Draft Notification for ESA villages in the Western Ghats. The Committee decided to wait till the said Notification was finalized; therefore the **Committee did not take up the case for appraisal.**

Member Secretary

Chairman

Item no.17	**M/s. MAHARASHTRA FISHERIES DEVELOPMENT CORP. (ToR)** Modernization of Sassoon Dock Fisheries Harbour at survey no. 5/600, Mumbai

The project was considered under category 7 (e) – B1 as per the EIA Notification 2006. M/s. Maharashtra Fisheries Development Corporation (PP) submitted the proposal for modernization of Sassoon dock fisheries harbor located in survey no. 5/600, Mumbai city. The project does not envisage any augmentation of the fish intake capacity of dock but envisages refurbishment of the facility associated with it.

After detailed discussion the Committee made the following observations:

1. The Committee felt that the location of fishing dock in south Mumbai is an outdated concept which compounds the problems of traffic, ambience and convenience of public. The said land could much better be utilized for purposes which could exploit the commercial potential of the location, being located in the heart of central business district of Mumbai. The Committee desires that PP shall outline the reasons for selection of site location, details of alternate sites with comparative reasons and reason for continuing the fishing dock in the said locality.
2. The Committee observed that requirement of fresh water for modernization is 2000 CMD. The Consent of BMC shall be obtained regarding requirement of water and included in the EIA report.
3. Steps conservation of water shall be adopted and waste water shall be prevented to enter into sea.
4. Quantum to be sent to the ETP shall be determined and proper treatability studies should be done to design ETP. A STP of 50 CMD shall be installed.
5. Since the location falls in CRZ the permission of MCZMA will be required.
6. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-6) points.

Item no. 18	Minor Mineral **(stone) Kolhapur**

Previous consideration: Minutes of the 82nd Meeting held on 3rd, 4th & 5th July, 2014

Decision: DMO presented total 46 nos. of proposals. The proposals were considered earlier in 75th SEAC-1 meeting. DMO informed that out of 46, 8 new cases are having approved mining plans and 1 quarry is ongoing on lease. After discussions and deliberations SEAC-1 found that Village Sadegudawale in Chandgad Taluka and Village Vesarde in Bhudargad Taluka are Ecologically Sensitive Areas (ESA) as per HLWG Report on Western Ghats. Therefore, mining activity cannot be allowed in the aforesaid ESA Villages.

Previous consideration: The 134th Meeting held on 7th, 8th& 9th September, 2016

Member Secretary

Chairman

Decision: The Committee went through the order of Hon'ble National Green Tribunal (NGT-WZ) in Appeal no. 29/2015 on dt. 2.01.2016 and noted that NGT had directed SEAC-1 to send its recommendation to SEIAA regarding application for grant of Environmental Clearance for stone quarrying in 1.0 ha area at S.N. 106, Village Vesarde, Tal. Bhudargad, Dist Kolhapur. The Committee had not appraised the proposal in its 82nd meeting since the quarry was situated in ESA Village as per the HLWG report on Western Ghats. The Committee requested Member Secretary, SEAC-1 to place the item in next meeting so as to take necessary decision.

Previous consideration: 135th meeting held on 21, 22 & 23rd Sept. 2016

Decision: The PP contends that he had applied for mining permission before 17th April 2013 (cut-off date) by virtue of which his case could be considered. Exact position and details may be kept before the Committee by Member Secretary, SEAC-I. For this the item was deferred.

Present consideration: 136th meeting

The Committee deliberated on the proposal. The Committee noted that vide MoEF&CC Notification dated 15.1.2016 S.O 141 (E) the authority for appraising minor mineral project less tan 5ha has been delegated to District Level Environment Impact Assessment Authority (DEIAA), therefore this Committee cannot appraise present project which envisages quarrying in area of 1ha.

Therefore the Committee decided **to request the SEIAA to transfer the case to Collector Kolhapur.**

Item no. 19	**M/s. Cane Agro Energy India Ltd.** **Sugar unit expansion from 2500 TCD to 9000 TCD at Raigaon Post Hingangaon (bk) Tal Kadegaon Sangli**

The brief information of the project as submitted by the PP is as follows:

1.	Name of the Project	M/s. Cane Agro Energy India Ltd. (CAEIL)
2.	Name, address, e-mail & contact number of Proponent	Name:Dr. JaykarPatil (CEO) M/s. Cane Agro Energy India Ltd. (CAEIL) Address:At Raigaon, Post Hingangaon, Tal. Kadegaon, Dist. Sangli, Maharashtra Telephone number:02347-245148/49/66 Email ID:Caneagro1@gmail.com
3.	Name of Consultant	M/s. Saitech Researeh & Development Organization
4.	Accreditation of consultant (NABET Accreditation)	Sr. No. 124 in List 'A' of O.M. of MoEF, GoI , New Delhi Dated 05/06/2013
5.	New Project / Expansion in existing project/ Modernization/ Diversification in exiting Project	Expansion in Existing Industry 2500 TCD to 9000 TCD and New-36MW Bagasse Based Co-Generation Plant.
6.	If expansion/ Diversification, whether environmental clearance	Expansion from 2500 TCD to 9000 TCD Sugar manufacturing. Existing capacity doesn't attract Environmental Clearance

Member Secretary

Chairman

	has been obtained for existing project (If yes, enclose a copy with compliance table)	
7.	Activity schedule in theEIA Notification	1 (d) 5(j)
8.	Area Details	

Land Utilization	Land Area, acre	%
Built up area	15.0	50
Green belt area	6.0	20
ETP/ESP	2.0	6.66
MSEB/ yard	7	23.33
Total	30	99.99 say 100%

9.	Name of the Notified Industrial area / MIDC Area	Raigaon, Post Hingangaon, Tal. Kadegaon, Dist. Sangli, Maharashtra
10.	TOR given by SEAC? (If yes then specify the meeting)	92nd SEAC Meeting Dated 22/12/14
11.	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	250 Cr
12.	Location details of the project :	Latitude: 17°24'46.103"N Longitude: 74°19'11.24"E Location: Raigaon, Post Hingangaon, Tal. Kadegaon, Dist. Sangli Elevation above Mean Sea Level (metres):720.285 M
13.	Distance from ProtectedAreas / Critically Pollutedareas / Eco-sensitive areas/ inter-State boundaries	Not Applicable

14. Raw materials (including process chemicals, catalysts, & additives).

List of raw materials to be used	'Physical and chemical nature of raw material	'Quantity (tonnes/ Day) full production capacity	Source of materials	Means of transportation (Source to storage site) with justificati
Sugarcane	Harvested mature sugarcane	9000 MT / Day	Nearby villages	Sufficient open space is available
Lime	As an Cao	14 MT / day	Local Vendors	Lime Godown
Sulphar	Sulphur Powder / Granular Sulphur Powder (80%)	6 MT / day	Local Vendors	Sulphur Godown

15. Production details

Name of Products, By products and Intermediate Products	Existing (T/Year)	Proposed activity (new/ modernization / expansion) (T/Year)	Total (T/Year)
Main Products Main Products : a) Sugar	2500 TCD	6500 TCD	9000 TCD
b) Electricity	---	36MW	36MW
By-Products			

Member Secretary

Chairman

		a) Molasses b) Bagasse c) Pressmud	16000 MT 432000MT 14000 MT	165600 MT 2925 50000 MT	-- 432000 MT --	
		Intermediate Products				

16.	Rain Water Harvesting (RWH)	As Expansion is in existing unit, and industry is located in MIDC all facilities are provided and enhanced in future. Level of the Ground water table: Size and no of RWH tank(s) and Quantity-- Location of the RWH tank(s)-- Size, nos. of recharge pits and Quantity: 10 soak pits of size 3x6.5x3 lit. Budgetary allocation (Capital cost and O&M cost)-

17. Total Water Requirement

Sr. No.	Description	Water Balance (M^3/Day)							
		Existing (Sugar Unit 2500 TCD)			Expansion (Sugar 9000 TCD and 36 MW Co-Gen Unit)				
		Water Requirement			Water Requirement				
		Sugar Unit	**Losses**	**Effluent Generation**	**Sugar Unit**	**Co-Gen**	**Sub Total**	**Losses**	**Effluent Generation**
1.	Domestic	31	1	30	37	5	42	02	40
2.	Industrial								
	Process (Machinery cooling)	540	340	200	310	395	705	617.4	87.6
	Cooling Tower Blow Down				0	0	0	0	442*(spray pond overflow)
	Boiler Feed	Nil	Nil	Nil	0	395	395	325.30	69.7
	Washing	Nil	Nil	Nil	270	358	628		628
	Gardening	Nil (Recycled from ETP)	----	--	Nil (Recycled from ETP)	0	0	0	0
	Industrial Use (a+b+c+d)	540		200	580	1148	1728	942.7	785.3+ 442* =1227.30
3.	**Grand Total (1+2)**	**571**	**341**	**230**	**617**	**1153**	**1770 (A)**	**944.7 (B)**	**1267.30 (C)**

Total Water Requirement : **1770**

Effluent Generation (C) = A- B = 1267.30 Say **1267**

18.	Storm water drainage	As Expansion is in existing unit, all facilities are provided i.e. Garland built in gutters and led to two ponds suitably placed. Natural water drainage pattern: quantity of storm water: Size of SWD:
19	Sewage generation and Treatment	Amount of sewage generation (CMD)- 20m^3 Proposed treatment for the sewage: disposed through septic tank and Soak pit Capacity of the STP (CMD) (If applicable)----
20	ETP details	Amount of effluent generation (CMD): Capacity of the ETP (CMD): 750+proposed 550m^3 Amount of treated effluent recycled (CMD): Amount of water send to the CETP (CMD):--NA Membership of the CETP (If require): If yes then attach theletter submit the letter--NA
21	Note on ETP technology to be used	Advanced Technology with primary, secondary and tertiary treatment.
22	Disposal of the ETP	The sludge is utilized for composting / organic manure with the press mud.

<table>
<tr><td></td><td>sludge (If applicable)</td><td></td></tr>
<tr><td>23</td><td>Solid waste Management</td><td>
<table>
<tr><th>Sr. No.</th><th>Source</th><th>Qty.</th><th>Form (sludge/ dry/ slurry)</th><th>Composition</th></tr>
<tr><td>1.</td><td>Raw water treatment plant</td><td>--</td><td>--</td><td>--</td></tr>
<tr><td>2</td><td>ETP</td><td>60kg/day</td><td>--</td><td>The sludge is utilized for composting / organic manure with the press mud.</td></tr>
<tr><td>3</td><td>Process</td><td>--</td><td>--</td><td>Bagasse will be used as a raw material for the generation of electricity
Press mud will be used composting / organic manure
Ash is utilized for the making of bricks also utilized for composting with filter cake.</td></tr>
<tr><td>4</td><td>Spent Catalyst</td><td>--</td><td>--</td><td>--</td></tr>
<tr><td>5</td><td>Oily Sludge</td><td>--</td><td>--</td><td>--</td></tr>
<tr><td>6</td><td>Others like Battery waste, e waste etc (Pl. Specify)</td><td>--</td><td>--</td><td>--</td></tr>
</table>
If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures:
Not applicable
What are the possibilities of recovery and recycling of wastes?:
Possible users of solid waste: --
Method of disposal of solid waste:
Sludge is generated during the treatment of wastewater in ETP. The sludge is utilized for composting / organic manure with the press mud.
Bagasse will be used as a raw material for the generation of electricity
Pressmud will be used composting / organic manure
Ash is utilized for the making of bricks also utilized for composting with filter cake
</td></tr>
<tr><td>24</td><td>Atmospheric Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)</td><td>
<table>
<tr><th>Sr. No.</th><th>Pollutant</th><th>Source of Emission</th><th>Emission rate (kg/hr)</th><th>Concentration in flue gas (g/m3)</th></tr>
<tr><td>1</td><td>SPM</td><td>Proposed Boiler</td><td>--</td><td>--</td></tr>
<tr><td>2</td><td>S02</td><td></td><td>--</td><td>--</td></tr>
<tr><td>3</td><td>N0X</td><td></td><td>--</td><td>--</td></tr>
<tr><td>4</td><td>CO</td><td>Proposed Boiler</td><td>--</td><td>--</td></tr>
<tr><td>5</td><td>Others H_2O, CO_2</td><td>Other effluents</td><td>--</td><td>--</td></tr>
</table>
</td></tr>
<tr><td>25</td><td>Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx)</td><td>
<table>
<tr><th>#</th><th>Parameter</th><th>Data</th></tr>
<tr><td>1</td><td>Boiler capacity</td><td>160 T/h at 110-125 kg/cm^2 Pr. and 580 ^{0}C Temp.</td></tr>
<tr><td>3</td><td>Chimney, ht</td><td>72 m</td></tr>
<tr><td>4</td><td>APC device in boiler</td><td>ESP</td></tr>
</table>
DG set and Boiler:
<table>
<tr><td>Boiler capacity, TPH</td><td>160 TPH</td></tr>
</table>
</td></tr>
</table>

Pressure kg/cm^2	110-125
Temperature ^{0}C	580
Turbine capacity, MW	36 MW
Turbine type	Back Pressure
Season operation, days	160-180
Fuels used for season operation	Mill Bagasse
Boiler efficiency %	70.00 ±2.0
On Bagasse/cane crash	70.00 ±2.0
Feed water temperature ^{0}C	70-80 ^{0}C
Captive power consumption % of generation	28
Turbo-generator efficiency %	90.00
Utilization level %	80 in 1st year , 90 in 2nd year, 95 in 3rd year and onward

26 Emission Standard

Boiler :

Pollutants (SPM, SO2, etc)	Emission Standard Limit (mg/Nm3)	Proposed Limit (mg/Nm3)	MPCB Consent (mg/Nm3)
TPM		150	150
SO2		--	1.64
NOX		--	--

27 Ambient Air Quality Data

Pollutant	Permissible Standard	Proposed Concentration (in µg/m3)	Remarks
PM2.5	60	37.62	--
PM10	100	60.29	--
SO2	80	6.45	--
NOX	80	8.37	--
CO	2	0.43	--

28 Details of Fuel to be used:

Sr. No	Fuel	Daily Consumption (TPD/KLD)		Calorific value (Kcals /kg)	% Ash	% Sulphur
		Existing	Proposed			
1	Gas	--	--	--	--	--
2	Naptha	--	--	--		
3	HSD	--	--	--	--	--
4	Fuel Oil	--	--	--	--	--
5	Coal	--	--	--	--	--
6	Lignite	--	--	--	--	--
7	Others (pl. specify)	Bagasse	Bagasse	--	--	--

Source of fuel:Mill bagasse and cane trash will be main fuel for the proposed Cogen Project during crushing season and saved bagasse and cane trash will be the main fuel during the off season period

Mode of transportation of fuel to site:

<table>
<tr><td>29</td><td>Energy</td><td>Power supply:
• Existing power requirement: MSEB
• Proposed power requirement:by Power Generation DG sets:
• Number and capacity DG sets to be used (existing and proposed): ..Number 2.& Capacity 320KVA 500KVA</td></tr>
<tr><td>30</td><td>Green Belt Development</td><td>Green belt area (Sq. m.): 6 Acres
Number and species of trees to be planted:Existing 7500 nos. of trees within the premises.
• Number, size, age and species of trees to be cut, trees to be Transplanted--</td></tr>
<tr><td>31</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><th>Sr. No.</th><th></th><th>Existing pollution control system</th><th>Proposed to be installed</th></tr>
<tr><td>1</td><td>Air</td><td>--</td><td>ESP</td></tr>
<tr><td>2</td><td>Water</td><td>ETP</td><td>ETP</td></tr>
<tr><td>3</td><td>Noise</td><td>Advanced Technology</td><td>Advanced Technology</td></tr>
<tr><td>4</td><td>Solid waste</td><td>Proper disposal system within premises</td><td>Proper disposal system within premises</td></tr>
</table>
</td></tr>
<tr><td>32</td><td>Environmental Management plan Budgetary Allocation</td><td>• Capital cost (With break up):
• O&M cost (With break up):
<table>
<tr><th>#</th><th>Environmental Aspect</th><th>Capital Expenditure Rs in Crores</th><th>Recurring Expenditure Rs in Crores</th></tr>
<tr><td>1</td><td>Emission control Engineering</td><td>2.00</td><td>0.25</td></tr>
<tr><td>2</td><td>Water & Wastewater management</td><td>4.00</td><td>0.5</td></tr>
<tr><td>3</td><td>Solid Waste</td><td>1.00</td><td>0.16</td></tr>
<tr><td>4</td><td>Greening Drive</td><td>0.5</td><td>0.15</td></tr>
<tr><td>5</td><td>Monitoring</td><td>0.01</td><td>0.09</td></tr>
<tr><td>6</td><td>Environmental Cell & PR</td><td>0.02</td><td>0.09</td></tr>
<tr><td>7</td><td>Other aspects like Rain Water Harvesting, Safety, Security etc.</td><td>0.2</td><td>0.04</td></tr>
<tr><td></td><td>Total</td><td>7.73</td><td>1.28</td></tr>
</table>
</td></tr>
<tr><td>33</td><td>EIA Submitted (If yes then submit the salient features)</td><td>• Period of data collected: March 2015 to May 2015
• Details of the primary data collection (i.e. location of the sample collection, number of visit, etc.)- Details mention in chapter 3
• Details of the secondary data collection (i.e. Source and year of data): March 2015 to May 2015
Potential hazard and mitigation measures- Details EIA Report
• Conclusion of the EIA study: - Details EIA Report</td></tr>
<tr><td>34</td><td>Public hearing report (If public hearing conducted then submit the salient features)</td><td>Date of the public hearing: --20/2/2016
• Name of the newspaper in which the advertisement appeared (Please attach the copy):--1) Times of India-21/1/2016. 2)Sakal-21/1/16
• Location of the public hearing:--On Site
• Number of people attended the hearing:--143
• Objection(s) / Suggestion(s) if any:-- No Objection</td></tr>
<tr><td>35</td><td>Air pollution, water pollution issues in the project area, If any</td><td>Not applicable</td></tr>
</table>

Member Secretary

Chairman

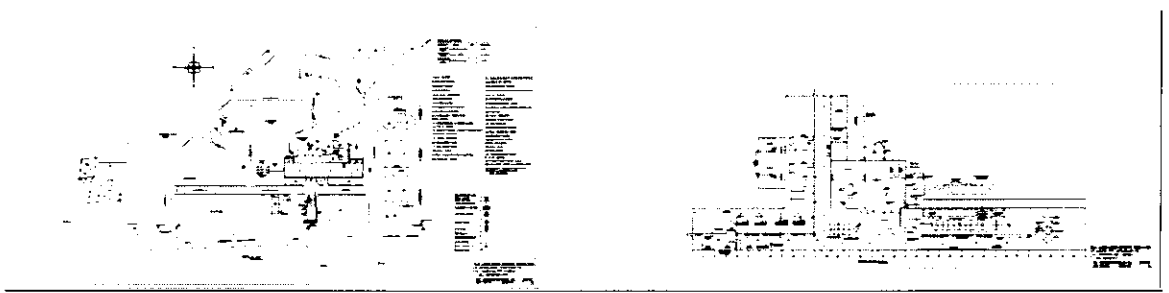
The PP gave a detailed presentation on the EIA Report pertaining to expansion of sugar unit from 2500 TCD to 9000 TCD and installation of a new co-generation plant of 36 MW. The proposal was considered under category 5(j)-B1 [sugar unit] and 1(d)-B1 [co-generation unit] of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.
2. The PP has brought entire cane growing area under drip irrigation. No extra water will be required for expansion of sugar unit. The MPCB shall verify whether any water is drawn from any other sources and if so shall verify certificate for water availability.
3. Bagasse generation is 4, 32,000 MT/Y as against the bagasse requirement of 3, 37,760 MT/Y (2, 45,760 MT/Y during season and 92,000 MT/Y during off-season). The surplus bagasse should be stored and disposed of without causing any environment pollution.
4. The PP intends to replace 2 boilers of 32 TPH capacity each by a single boiler of capacity 160 TPH. The emission from this boiler shall be passed through MDC and ESP of 99.9% efficiency to achieve a TPM of less than 100 mg/Nm^3 at the stack end. The stack height shall be 75 m.
5. The PP intends to expand ETP capacity from 750 CMD to 1300 CMD. The effluent generated from sugar generation, boiler blow down and spray pond shall be led into the ETP. ETP will comprise of grit chamber, oil / grease separator, equalization tank, aeration tank and clarifier followed by filtration unit. Sludge which will be generated from filtration shall be dried in the mechanical sludge dewatering system. Supernatant liquid shall be passed through sand and activated carbon filter and Potassium Permanganate ($KMnO_4$) treatment and after treatment shall be used for gardening. TDS levels shall be brought down below 2100 mg/lit.
6. Risk Assessment and Risk Mitigation Studies were carried out. Diagram enclosed in the ***Annexure 19.1*** gives the layout of the plot with the all hazard management facilities. Maharashtra Pollution Control Board (MPCB) should verify the provision of these facilities before granting Consent to Operate. There will not be any incidence of off-site emergency as submitted by the PP.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (2-6) conditions.

"Annexure 19.1"



Member Secretary

Chairman

Item no. 20	**M/s. Pudumjee Pulp & Paper Mills Ltd.** Proposed 16MW+ 5MW Coal Based Co-generation Power Plant at Plot No. K-5, Additional MIDC, Mahad, Raigad

The Committee observed that the PP had submitted the proposal for coal based co-generation plant [category 1(d) - B1]. It would be ancillary activity with paper manufacturing without pulp manufacturing [5(i)-B1].

The Committee desired that both these activity should be considered together for appraisal so that air, water, noise aspects can be considered in comprehensive manner. PP may check requirement of public consultation for co-generation as well as paper manufacturing unit.

Deferred.

Item no. 21	**M/s. Classic Oil Ltd. (ToR)** Proposed Greenfield project of Specialty Chemicals and intermediate of capacity Product- 1420 MT/M, and By-products 854.54 MT/M at B-14, Mahad MIDC, District-Raigad.

The project was considered under category 5 (f) – B1 as per the EIA Notification 2006. The PP gave a detailed presentation for ToR for the preparation of the EIA report. PP is subsidiary of Indo amines and proposes to carry out the present project in the same premises where it was earlier manufacturing edible oils. The project is a greenfield project envisaging manufacturing of Specialty Chemicals and intermediates to the extent of 1420 MT/M along with by-products of 854.54 MT/M.

After detailed discussion the Committee made the following observations:

1. PP shall carry out detailed Risk Assessment and Risk Mitigation studies which should enable it for identifying risk contours whereby location of gates can be identified.
2. The by-products should not be indiscriminately disposed but reused. 35% HCl should be concentrated to at least 30% using Graphite heat exchangers and shall be marketed. Sodium Hydrolyte should be recycled.
3. ETP per se will be based on treatability studies. The project shall be run as a Zero Liquid Discharge System considering vagaries plaguing CETP at MIDC, Mahad. However the Committee convinced that if at the time of EIA appraisal the CETP at Mahad can treat effluents, the Committee may consider sending the effluents to the CETP. The PP shall install MEE of suitable capacity to achieve a Zero Liquid Discharge status.
4. PP shall ensure that there will not be entering of leachate in nearby waterbody.
5. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

After detailed deliberations the Committee decided to **approve ToR** for preparation of the EIA report subject to the inclusion of above (1-5) points.

Member Secretary

Chairman

Item no. 22	**M/s. Privi Biotechnology Pvt. Ltd.** EC for proposed greenfield project for R&D pilot plant for food and non-food additives at plot no. D-122, TTC Industrial area, Nerul, Navi Mumbai.

The brief information of the project as submitted by the PP is as follows:

1.	Name of project	Proposed Greenfield project of R&D. Pilot plant for food and non-food additives at Plot No.: D-122, TTC industrial area, thane – Belapur road, Nerul, Navi Mumbai - 400 706, Maharashtra
2.	Name, address, e-mail & contact number of proponent	Mr. Pramod Nambiar Plot No.: D-122, TTC industrial area, thane – Belapur road, Nerul, Navi Mumbai - 400 706, Maharashtra Email id : pradip.yelave@privi.co.in
3.	Name of consultant	**M/s. Goldfinch Engineering Systems Pvt. Ltd.**
4.	Accreditation of consultant (NABET Accreditation)	S. No. 69 in QCI NABET List 139 (Aug. 2016)-for the proposed project category (5f) of the MoEF EIA notification Schedule
5.	New project/expansion in existing project/modernization/diversification in existing project	New
6.	If expansion/diversification, whether environmental clearance has been obtained for existing project *(If yes enclose a copy with compliance table)*	Proposed is a Greenfield Project
7.	Activity schedule in the EIA Notification	5 (f) - B
8.	Area Details	Total plot area: 2100 sq.m.
9.	Name of the Notified Industrial Area/ MIDC area	TTC Industrial Area, Nerul
10.	TOR given by SEAC? (If yes then specify the meeting)	yes
11.	Estimated capital cost of the project (Including cost for land, building, plant and machinery separately)(INR)	13.0 Cr
12.	Location details of the project:	Latitude – 19.049069 N Longitude – 73.026778 E Location: TCC Industrial Area, Nerul Elevation above mean sea level meters: 43 ft.
13.	Distance from protected areas/ critically polluted areas/ Eco Sensitive area/ inter-sate boundaries	No such area in the vicinity.
14.	Raw materials (including process chemicals, catalysts & additives)	Pl. Refer Pre-feasibility Report.
15.	Production Details	Pl. Refer Pre-feasibility Report.
16.	**Proposed Production Capacity:**	

SN	Products	Quantity in kg
1	Flavors & fragrances like Vanillin Flavor esters	20 kg/batch max
2	Food additives and neutraceuticals like Xylitol Fatty Acids Mono & diglycerides etc	50 kg/batch max
3	Biopolymers etc	50 kg/batch max

17.	Rain water Harvesting (RWH)	Rain water harvesting will be implemented at the site

Member Secretary

Chairman

18.	Total Water Requirement	Please refer Table below:

Souree	Consumption (CMD)	Loss (CMD) Reaction water add (+) / Water loss (-)	Effluent (CMD)
Domestic	4.00	1.00	3.00
Industrial Processing	4.00	0.50	3.5
Cooling Tower	40.00	35	5.00
Boiler Feed	36.20	36 (29 CMD condensate recycled back) and (7 CMD splash loss)	0.20
Floor washing / cleaning	5.00	0.5	4.5
Gardening	4.00	4.00	
Total	93.20	77.00	16.20
Recycled	**45.00**	--	--
From 2nd day Total water req	**48.20**	--	--

19.	Storm water drainage	Natural water drainage pattern: Proper and separate storm water drains available, as per natural slope.
20.	Sewage generation and treatment	Amt. of sewage generation (CMD): 3 Proposed treatment for the sewage: It will treat in combine ETP
21.	Effluent Characteristics	Please refer Table below:

S. No.	Parameters	Unit	Inlet Effluent Characteristics	Inlet to RO	RO Reject to Evaporator
1	Flow	m^3/day	16.20	16.20	3.24
2	pH	----	6 - 7	6 - 7	6 - 7
3	COD	mg/L	4500 - 7500	200 - 250	200 - 250
4	BOD	mg/L	1500 - 3500	80 - 100	80 - 100
5	TDS	mg/L	5000 - 7000	5000 - 7000	30000 - 35000
6	TSS	mg/L	80 - 120	10 - 20	10 – 20

22.	ETP details	Amount of effluent generation : 16.20 CMD Capacity of the ETP: 21 CMD
23.	Note on ETP technology to be used	Liquid effluents will be treated in effluent treatment plant of capacity 21 CMD, fed to RO and evaporator to achieve Zero Liquid Discharge(ZLD)
24.	Disposal of The ETP sludge	ETP sludge will be disposed to MWML, Taloja
25.	Solid Waste Management	Please refer Table Below:

Industrial Waste

S. No.	Type of Waste	Unit	Quantity	Disposal Method
1	Empty barrels, bottles and containers	Nos. / year	500	Sold to authorized recyclers
2	E -waste	Kg / year	100	Sold to authorized recyclers
3	Solid waste from process	Kg / year	7200	Used as manure / send to MWML, Taloja
4	Solid waste from con. technique	Kg / year	3000	Send to MWML, Taloja
5	Solid adsorbent resins	Lit/year	800	Send to incineration MWML,Taloja

26.	Atmospheric Emissions (Flue gas characteristics SPM, SO_2, NO_X, CO etc.)	

S. No.	Pollutant	Source of Emission	Emission rate Proposed
1.	SPM	Boiler/DG	<50 mg/m³
2.	SO_2	Boiler/DG	<100 mg/m³
3.	CO	Process	<100 mg/m³
4.	Total Organic Content	Process	<20 mg/m³
5.	NOx	Boiler/DG	<200 mg/m³

27.	Stacks emission Details	Refer Table Below:

Attached to	**Boiler (Non IBR) Kg/hr**	**Thermic Fluid Heater (Non IBR) Kcal/hr**	**DG KVA**
Capacity	1500	50000	315
Fuel type	CNG/FO/LDO/Biofuel	CNG/LDO/Biofuel	LDO
Fuel qty kg / hr	103 SCM/hr/ 90.26 Kg/hr/ 86.23 Kg/hr/ 86.23 Kg/hr	6.68 SCM/hr 6 Kg/hr/ 6 Kg/hr	60 Kg/hr
MOC	MS		MS
Shape	Round		Rectangular
Height m (above ground level)	30		3.5 m
Mitigation Measures	Stack		Stack, Acoustic enclosure

28.	Emission Standard	

Pollutants (SPM, SO_2 etc)	**MPCB Consent**	**Emission Standard Limit**
SPM/TPM	<50 mg/Nm³	150 mg/Nm³
SO_2	<100 mg/Nm³	135 mg/Nm³

29.	Ambient Air quality data	

Pollutant	**Permissible Standard (24 H)**	**Proposed Concentration**
SPM (PM10)	100 µg/m³	50-60 µg/m³
RPM (PM2.5)	60 µg/m³	20-40 µg/m³
SO_2	80 µg/m³	20-40 µg/m³
NO_X	80 µg/m³	20-40 µg/m³

30.	Details of Fuel to be used:	

S. No	Type of Fuel	Proposed	Total
1	CNG / FO	109.68 SCM/hr / 90.26 Kg/hr	109.68 SCM/hr / 90.26 Kg/hr
2	LDO for DG and boiler	146.23 Kg/hr	146.23 Kg/hr

Source of Fuel : From market/ out sider fuel companies
Mode of Transportation of fuel to site : By Road

31.	Energy	Power Supply : 315 KVA DG sets: 01 DG set of 315 KVA will be provided
32.	Green Belt Development	Green belt area : 350 m²

Member Secretary

Chairman

		Number of species of trees & shrubs to be planted: 120 Nos.		
33	Details of pollution control Systems:	S. No.	Source	To be installed
		1	Air	By dispersal into atmosphere through chimney of adequate/ recommended height.
		2	Water	ETP with RO and Evaporator.
		3	Noise	Acoustic enclosure for proposed D.G of 315 KVA & PPE.
		4	Solid Waste	Hazardous waste will be disposed to CHWTSDF, Taloja.
34.	Environmental Management plan Budgetary Allocation	Will be provided during EIA report		
35.	EIA submitted (If yes then submit the salient features)	EIA Report submitted.		
36.	Public hearing report (If public hearing conducted then submit the salient features)	Not Applicable. Proposed project is in Notified Industrial area		
37.	Air pollution, water pollution issues in the project area, if any	No. CETP for the entire effluent from MIDC area already exists. All industries are being regulated & monitored by MPCB in this MIDC area with developed infrastructure		

The project was considered under category 5(f)-B1 of the schedule of the EIA Notification, 2006. The PP gave detailed presentation for EIA report for proposed greenfield project for R&D pilot plant for food and non-food additives for the following projects sanctioned by Government of India:

Project No.1: Sanctioned by Department of Biotechnology

'*Pilot scale translational facility for value added chemicals from biomass*'

Project No.2: Sanctioned by Indo German Science & Technology Center

'*Design of Selective nanoporous membrane bioreactor for efficient production of bio-butanol from lignocellulosic sugars*'

Project No.3: Department of Science and Technology

Green enzymatic fat-splitting technology for production of fatty acids and acyl glycerols

After detailed discussion the Committee made the following observations:

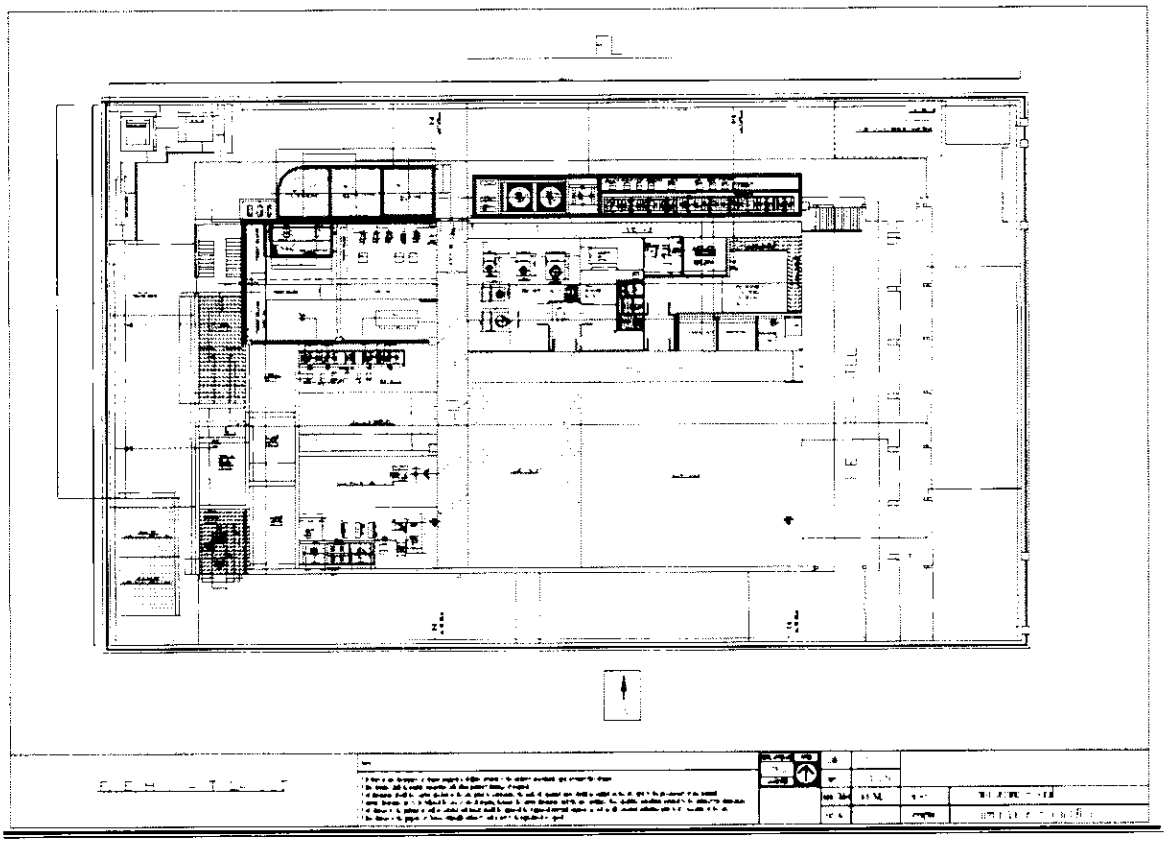
1. The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.
2. The project will run as a Zero Liquid Discharge system. The liquid effluent shall be processed through RO, MEE and ETP each of 21 CMD capacity.
3. The PP contended that there would not be any odor problem.
4. The PP shall be deploying 1.5 TPH boiler and 50,000 kcal/hr thermic fluid heater which will be using CNG/LDO, the emission of thereof shall be let out through stack of height 30m. Notwithstanding the relatively non-polluting character of emissions the TPM <100 mg/Nm^3.
5. 99% recovery of solvents shall be achieved. Unused solvents shall be sold to authorized vendors.
6. The project does not classify as accidental hazardous unit however the Committee insisted that Alcohol water solution should not be prepared in situ but outsourced from outside. ***Annexure 22.1*** gives diagram of hazard management facilities provided by the PP.

Member Secretary

Chairman

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (2-6) conditions. This recommendation will be restricted to the projects of GoI presented before the Committee. For any new projects the PP shall apply for fresh EC.

"Annexure 22.1"



Item no. 23	**M/s. Seya Industries Ltd.** Proposed greenfield project Chlor-alkali plant (270 TPD), coal based Captive Power Plants (CPP), manufacturing of synthetic organic chemicals (888.4 TPD), Sulphuric Acid and allied products (550 TPD) at plot no. D-16, MIDC Tarapur, Taluka- Palghar, District- Palghar, Maharashtra.

The brief information of the project as submitted by the PP is as follows:

1.	Name of project	Greenfield Project of Chlor-Alkali Plant, Coal Based Captive Power Plant, Manufacturing of Synthetic Organic Chemicals, Sulphuric Acid and Allied Products
2.	Name, address, e-mail & contact number of proponent	Mr. Ashok G. Rajani M/s. Seya Industries Limited Plot No. D-16, Tarapur MIDC, Palghar, Maharashtra Email: seyainl@gmail.com Tel: 022-26732894/ 022-66779071
3.	Name of consultant	Name: M/s. Kadam Environmental Consultants

4.	Accreditation of consultant (NABET Accreditation)	M/s Kadam Environmental Consultants: NABET/EIA/1316/SA/ 2 001 extended upto April 4, 2017
5.	New project/expansion in existing project/modernization/diversificatio n in existing project	New
6.	If expansion/diversification, whether environmental clearance has been obtained for existing project *(If yes enclose a copy with compliance table)*	It is a Greenfield Project
7.	Activity schedule in the EIA Notification	1(d), 4 (d), 5 (f) Category "B"
8.	Area Details	Total plot area - 156367 m^2 (15.63 ha.)
9.	Name of the Notified Industrial Area/ MIDC area	Tarapur Industrial Area, Palghar
10.	TOR given by SEAC? (If yes then specify the meeting)	Yes. 125th Meeting of State Level Expert Appraisal Committee-I, held on 13th April, 2016
11.	Estimated capital cost of the project (Including cost for land, building, plant and machinery separately)	INR 1972 Cr.
12.	Location details of the project:	**Code / Latitude / Longitude** A / 19°48'25.85"N / 72°43'38.28"E B / 19°48'27.38"N / 72°43'23.85"E C / 19°48'39.72"N / 72°43'28.98"E D / 19°48'41.08"N / 72°43'30.98"E E / 19°48'40.98"N / 72°43'34.32"E F / 19°48'42.80"N / 72°43'37.48"E Location: Plot No. D-16, Tarapur MIDC Elevation above mean sea level meters: 10 m
13.	Distance from proteeted areas/ eritically polluted areas/ Eco Sensitive area/ inter- sate boundaries	Gujarat State Boundary: 14.06 kms towards North (from project site to Dahanu Road Station)
14.	Raw materials (including process chemicals, catalysts & additives)	Detailed in EIA Report
15.	Production Details	As given below:

16.

Proposed Production Capacity:

S. No.	Products	Quantity (MTPM)
A	**Chlor-Alkali**	
1	Caustic Soda (100%) Lye/Prills/Flakes	8100
2	Chlorine	7128
3	Hydrogen Gas	202
B	**Synthetic Organic Products**	
1	Mono Chloro Benzene (MCB)	7500
2	Para Nitrochloro Benzene (PNCB)	6000
3	Ortho Nitro Chloro Benzene (ONCB)	3000
4	Para Dichloro Benzene (PDCB)	3333
5	Ortho Diehloro Benzene (ODCB)	1666
6	Di Methyl Sulphate (DMS)	2000
7	Di Methyl Aniline (DMA)	200
8	Ortho Anisidine (OA)	1800

	9	Red B Base	1050
	10	Sulphuric Acid	16500
	11	Allied Products:	
	i	*Thionyl Chloride*	*3000*
	ii	*Liq.SO_2*	*600*
	iii	*Liq. SO_3*	*6750*
	iv	*65% Oleum*	*1500*
	v	*24% Oleum*	*1500*
	vi	*Chloro Sulphonic Acid (CSA)*	*3000*

Details of By-Products:

S. No.	Name of Product	Quantity (MTPM)
1	Dil. HCl	20320
2	Crude Di Chloro Benzene (DCB)	600
3	Dil. Sulphuric acid (78-80%)	486
4	Sodium Hypochlorite	850
5	Dil. Sulphuric acid (70-72%)	7954
6	Meta Nitro Chloro Benzene (MNCB)	126
7	Di Nitro Chloro Benzene (DNCB)	63
8	Sodium Acetate	410

Details of Captive Power Plants :

S. No.	Plant	Capacity (MW)
1	**CPP-1**	
i	Power	11.35
ii	Steam	133 TPH
2	**CPP-2**	
i	Power	45
3	**Waste Heat Recovery System from Sulphuric Acid Plant**	
i	Power	8.0

17.	Process details / manufacturing details	Detailed in EIA report.
18.	Rain water Harvesting (RWH)	Detailed in EIA report.
19.	Total Water Requirement	Water requirement will be 8136 KLD, it will be sourced from MIDC.
20.	Storm water drainage	SWD will be constructed and connected to natural drainage system.
21.	Sewage generation and treatment	40 KLD of STP will be design for treating 36 KLD of Sewage.
22.	Effluent Characteristics	As given below:

23. *Design Inlet and Outlet Characteristics of ETP 1 (Synthetic Organic Chemical product Plant)*

S. No.	Parameters	Unit	ETP Inlet Characteristics	ETP Outlet Characteristics
1	Design Flow	400 m^3/day	400	400
2	pH	-	4 - 9	7.5 - 8.5
3	BOD	mg/l	2000 - 2500	<50
4	COD	mg/l	4000 - 5000	<150
5	TSS	mg/l	300 - 400	<20
6	TDS	mg/l	1800 - 2000	<1000
7	O & G	mg/l	10 - 20	<10

Design Inlet and Outlet Characteristics of ETP 2 (CPP, Chlor-Alkali Plant, Sulphuric Acid and Utilities)

Member Secretary

Chairman

S. No.	Parameters	Unit	Raw Water	After Primary	After Tertiary	RO Permeate	RO Rejeet
1	Design Quantity	m^3/day	3500	3500	3500	2470	618
2	pH	----	7.0 – 7.5	7.0 – 7.5	7.0 – 7.5	7.0 – 7.5	7.0 – 7.5
3	BOD_3, 27°C	mg/L	25-30	15-20	<10	< 02	< 100
4	COD	mg/L	50-75	50-60	<50	<05	<300
5	TSS	mg/L	100-150	80-100	<50	<04	<250
6	TDS	mg/L	4000-5000	4000-5000	<5000	<150	<30000

Design Inlet and Outlet Characteristics for MEE

S. No.	Parameters	Unit	Fed to MEE	After MEE treatment
1	Design Quantity	m^3/ day	700	700
2	pH	----	7.0 – 7.5	7.5-8.5
3	BOD_3, 27°C	mg/L	<100	< 02
4	COD	mg/L	<300	<05
5	TSS	mg/L	<250	<04
6	TDS	mg/L	<30000	<150

24.	ETP details	Qty. of Effluent generation : 3294 KLD Capaeity of ETP I & ETP II: 400 KLD & 3500 KLD Qty. of treated Effluent Recycled : 2927 KLD Qty. of Effluent sent to CETP: 318 KLD Membership of CETP (*if require*): Yes, attached in EIA report
25.	Note on ETP teehnology to be used	Two separate effluent treatment plants will be provided: ETP 1: Primary, secondary and tertiary treatment will be provided and treated effluent will be sent to CETP. ETP 2: Primary, tertiary, RO and MEE will be provided and treated effluent will be recycled back (ZLD).
26.	Disposal of The ETP sludge	To MWML, Taloja CHWTSDF
27.	Solid Waste Management	As given below:
28.	Atmospheric Emissions (Flue gas characteristics SPM, SO_2, NOx, CO ete.)	

S. No.	Pollutant	Source of Emission	Emission Standard Limit	Concentration in flue gas
1.	SPM	Boiler/DG	100 mg/m^3	<100 mg/m^3
2.	SO_2	Boiler/DG	100 mg/m^3	<100 mg/m^3
3.	NOx	Boiler/DG	100 mg/m^3	<100 mg/m^3

29.	Staeks emission Details	Refer Table Below:

Details of Process Vents and APCM:

Stack No.	Staek Attached to	Stack Ht., m	Stack Dia.	Stack Exit	Stack Exit	APCM	Expected Pollutants

			(Top), m	Velocity, m/s	Temp. °K		
Chlor-Alkali Plant							
1	Waste air De-Chlorination Unit	30	0.40	1.5	308	3 Stage Caustic Scrubbing System	Cl_2
2	HCl synthesis Unit	30	0.15	1.5	308	Single Stage DM Water Scrubbing System	HCl, Cl_2
Synthetic Organic Chemical products plant							
3	Nitro Chloro benzene plant (NCB)	15	0.50	1.5	308	Caustic Scrubber	NOx
Sulphuric Acid Plant							
1	Chloro Sulphonic Acid vent	20	0.40	10.0	308	HCl gas is scrubbed with CSA (part of process) followed by vent	HCl
2	Sulphuric acid plant	50	1.50	12.0	323	Scrubber followed by stack. Online SO2 analyzer	SO_2, Acid Mist
3	Thionyl Chloride plant	30	0.25	12.0	323	Scrubber followed by stack	HCl, SO_2
4	Sulphuric Acid Plant Chlorine shed	15	0.50	1.5	308	Caustic Scrubber	Cl_2

Details of Flue Gas Stacks and APCM:

Stack No.	**Stack Attached to**	**Capacity**	**Stack Ht., m**	**Stack Dia. (Top), m**	**Stack Exit Velocity, m/s**	**Stack Exit Temp, °K**	**APCM**	**Expected Pollutants**
1	Boiler (Waste Heat Recovery) At Sulphuric Acid Plant (8 MW)	32 TPH	40	1.0	15.2	523	Adequate Stack Ht.	PM, SO_2, NOx
2	DG Set (1.5 MW)	1.5 MW	30	1.2	15.0	373	Adequate Stack Ht.	PM, SO_2, Nox
3	Boiler – CPP I (11.35 MW)	140 TPH	80	3.2	17.5	423	ESP with adequate field	PM, SO_2, NOx
4	Boiler – CPP II (45 MW)	200 TPH	90	3.0	17.5	423	ESP with adequate field	PM, SO_2, Nox

30. Details of Fuel to be used:

S. No	Type of Fuel	Proposed	Source
1	Coal	1104 TPD	Imported
2	HSD	300 lit/hr	Local Depot

Mode of Transportation of fuel to site : By Road

Member Secretary

Chairman

<table>
<tr><td>31.</td><td>Energy</td><td>
<table>
<tr><th>Plants</th><th>Requirement</th><th>Source</th></tr>
<tr><td>Chlor-Alkali</td><td>45 MW</td><td>Power Plant (45 MW)</td></tr>
<tr><td>Synthetic Organic Chemical Products and Sulphuric Acid Plant</td><td>16.89 MW</td><td>Power Plant (11.35 MW)
Waste Heat Recovery Boiler (8 MW)</td></tr>
</table>
D.G set of 1.5 MW will be used as an emergency backup power on need basis
Note: Initially power supply will be from MIDC</td></tr>
<tr><td>32.</td><td>Green Belt Development</td><td>Green belt: 25800 m^2
Number of species of trees & shrubs to be planted: 2865 Nos.</td></tr>
<tr><td>33.</td><td>Details of pollution control Systems:</td><td>
<table>
<tr><th>S. No.</th><th>Name of Plant</th><th>Parameters</th><th>Operational Controls at Design Stage</th></tr>
<tr><td rowspan="3">1</td><td rowspan="3">Chlor-Alkali Plant</td><td>Air Emissions</td><td>Water/ Caustic Scrubber</td></tr>
<tr><td>Waste Water</td><td>Effluent will be treated in ETP followed by RO and MEE treatment and will be reused back</td></tr>
<tr><td>Solid Waste</td><td>Brine Sludge will be sent to CHWTSDF</td></tr>
<tr><td rowspan="3">2</td><td rowspan="3">Synthetic Organic chemical Products</td><td>Air Emissions</td><td>Caustic Scrubber</td></tr>
<tr><td>Waste Water</td><td>Effluent will be treated in ETP and sent to CETP</td></tr>
<tr><td>Solid Waste</td><td>Will be sent to CHWIF/ CHWTSDF as per the SHW rules</td></tr>
<tr><td rowspan="3">3</td><td rowspan="3">Sulphuric Acid Plant</td><td>Air Emissions</td><td>Scrubbed with CSA (part of process) followed by vent/ Caustic Scrubber/ On line SO_2 analyser</td></tr>
<tr><td>Waste Water</td><td>No waste water is generated</td></tr>
<tr><td>Solid Waste</td><td>Waste will be given to appropriate vendors</td></tr>
<tr><td rowspan="3">4</td><td rowspan="3">CPP I & II</td><td>Air Emissions</td><td>ESP and Adequate Stack Height</td></tr>
<tr><td>Waste Water</td><td>Effluent will be treated using RO and MEE and will be reused</td></tr>
<tr><td>Solid Waste</td><td>Fly Ash will be given to Brick manufacturing plant</td></tr>
</table></td></tr>
<tr><td>34.</td><td>Environmental Management plan Budgetary Allocation</td><td>
<table>
<tr><th>S No.</th><th>Head</th><th>Approximate Capital cost (INR in Lakh)</th><th>Approximate Recurring cost per Annum (INR in Lakh)</th></tr>
<tr><td>1</td><td>Air Pollution Control & Monitoring</td><td>790</td><td>103.5</td></tr>
<tr><td>2</td><td>Water Pollution Control & monitoring</td><td>1751</td><td>1666</td></tr>
<tr><td>3</td><td>Noise Pollution Control</td><td>--</td><td>0.2</td></tr>
<tr><td>4</td><td>Solid and Hazardous waste management</td><td>22</td><td>10</td></tr>
<tr><td>5</td><td>Ecology and Biodiversity</td><td>5.7</td><td>1</td></tr>
<tr><td colspan="2">Total</td><td>2568.7</td><td>1780.7</td></tr>
</table></td></tr>
<tr><td>35</td><td>EIA submitted (If yes then submit the salient features)</td><td>EIA Submitted on 17.09.2016</td></tr>
</table>

Member Secretary

Chairman

		Baseline monitoring was carried out in Summer season of March-June 2016. EMP, RA/DMP is provided in detail in the EIA report
36.	Public hearing report (If public hearing conducted then submit the salient features)	Not Applicable. Proposed project is in Notified Industrial area
37.	Air pollution, water pollution issues in the project area, if any	No pollution issues regarding Air and water identified in the area. Effluent will be directed to existing CETP of the industrial area. All industries are being regulated & monitored by MPCB in this MIDC area with developed infrastructure

The PP gave a detailed presentation for production of Chlor-alkali, synthetic organic chemicals, Sulphuric acid & allied products and 2 Captive Power Plants. The project was considered under category 4(d) [chlor-alkali]/ 5(f) [synthetic organic chemicals] /1(d) [captive power plant], B1of the schedule of EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. The PP produced a letter from Deputy Engineer, MIDC Sub-division, Tarapur. The letter was sent to Water Resource Department for renewal for 8.20 MCM and additional 13.1 MCM of water. This allotment will be done at the State cabinet level. Therefore any EC granted will be conditional to the water requirement being sanctioned by the Government.

2. The plot layout shall contain 33% of non-built-up area as green belt where trees shall be planted and 12% of total plot area as parking (including visitors' parking). An extra gate shall be provided on northern side for easy evacuation in addition to the already existing gates. Thus there will be a total of 4 gates at south-western (1) and western (2) sides.

3. The Committee was concerned about proper disposal of by-products. The by-products' names and its mode of disposal was depicted in the following table-

Sr. no.	Name of the by-product	Mode of disposal
1.	Dilute HCl (30%)	Sell to proper industry
2.	2-Dichloro Benzene	To be used as raw material in captive DCP plant of PP
3.	Dil. H_2SO_4 (78% – 80%)	Sell to fertilizer industry
4.	Sodium Hypochlorite	Sell to textile industry
5.	Dil. H_2S	Sell to Single phosphate fertilizer
6.	Meta Nitro Benzene	Sell to proper industry
7.	Di nitro Benzene	Captive use
8.	Sodium Acetate	Sell to proper industry

Member Secretary

Chairman

4. ***Annexure 23.1*** gives details of Air emission and control.

5. PP shall ensure power back-ups for all APCs and independent metering. An outlet TPM of less than 100 mg/Nm^3 shall be achieved. Suitable control measures to handle fugitive emissions shall be installed.

6. Provision shall be made on site for, storage of 2 days of fly ash generated. Fly ash shall be sold to cement/ brick manufacturers.

7. Hazardous waste shall be stored in an elevated area in a scientific manner (10 MT at given time). ***Annexure 23.2*** gives details of mode of disposal of hazardous waste.

8. PP has done an elaborate study on Risk Assessment and Risk Mitigation. ***Annexure 23.3*** gives layout diagram for various hazard management facilities. MPCB should verify this before granting Consent to Operate. Workers should be physically analyzed for Benzene metabolites at regular intervals. PP shall establish online monitoring of Benzene.

The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (1-8) conditions.

"Annexure 23.1"

Stack No.	Stack Attached to	Stack Ht., m	Stack Dia. (Top), m	Stack Exit Velocity, m/s	Stack Exit Temp, °K	APCM	Expected Pollutants
Chlor-Alkali Plant							
1	Waste air De-Chlorination Unit	30	0.40	1.5	308	3 Stage Caustic Scrubbing System	Cl_2
2	HCl synthesis Unit	30	0.15	1.5	308	Single Stage DM Water Scrubbing System	HCl, Cl_2
Synthetic Organic Chemical products plant							
3	Nitro Chloro benzene plant (NCB)	15	0.50	1.5	308	Caustic Scrubber	NOx
Sulphuric Acid Plant							
1	Chloro Sulphonic Acid vent	20	0.40	10.0	308	HCl gas is scrubbed with CSA (part of process) followed by vent	HCl
2	Sulphuric acid plant	50	1.50	12.0	323	Scrubber followed by stack. Online SO_2 analyzer	SO_2, Acid Mist
3	Thionyl Chloride plant	30	0.25	12.0	323	Scrubber followed by stack	HCl, SO_2

4	Sulphuric Acid Plant Chlorine shed	15	0.50	1.5	308	Caustic Scrubber	Cl_2

Details of Flue Gas Stacks and APCM:

Stack No.	Stack Attached to	Capacity	Stack Ht., m	Stack Dia. (Top), m	Stack Exit Velocity, m/s	Stack Exit Temp. °K	APCM	Expected Pollutants
1	Boiler (waste Heat Recovery) At Sulphuric Acid Plant (8 MW)	32 TPH	40	1.0	15.2	523	Adequate Stack Ht.	PM, SO_2, NOx
2	DG Set (1.5 MW)	1.5 MW	30	1.2	15.0	373	Adequate Stack Ht.	PM, SO_2, Nox
3	Boiler – CPP I (11.35 MW)	140 TPH	80	3.2	17.5	423	ESP with adequate field	PM, SO_2, NOx
4	Boiler – CPP II (45 MW)	200 TPH	90	3.0	17.5	423	ESP with adequate field	PM, SO_2, Nox

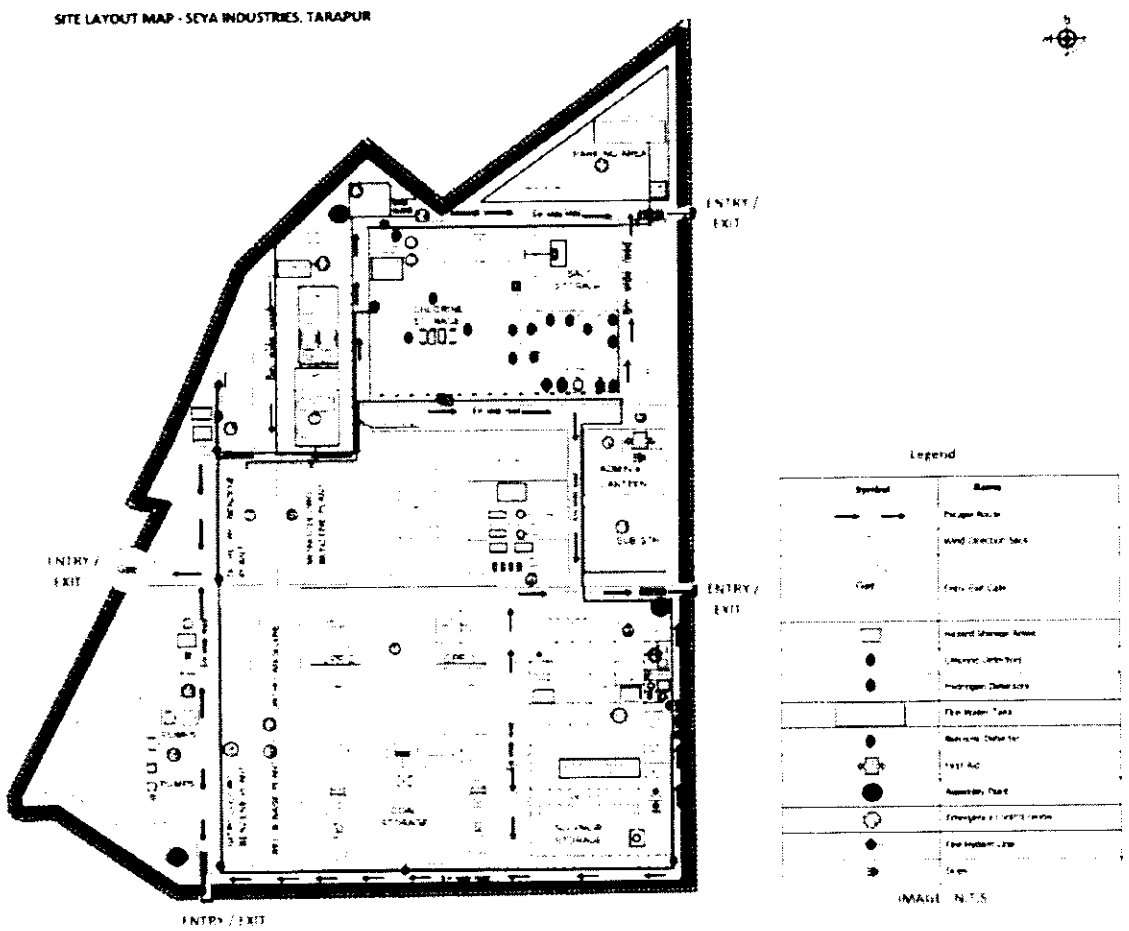
"Annexure 23.2"

S. No.	Type of Waste	Hazardous Waste Category	Quantity MTPA	Source	Treatment / Disposal
Hazardous Waste					
1	Distillation Residue	20.3	672	Process	Collection, Storage, transportation and send to MWML, Taloja CHWIF for incineration.
2	Spent Oil	5.1	10	Process	Collection, storage, reuse/ sale to authorized recycler
3	ETP Sludge and MEE Salts	35.3	7280	ETP & MEE	Collection, Storage, transportation and send to MWML, Taloja CHWTSDF
4	Spent Carbon	36.2	137.5	ETP	Collection, Storage, transportation and send to MWML, Taloja CHWTSDF
5	Spent Catalyst	35.2	248.4 MT per 1-2 years	Process	Will be given for regeneration/ reactivation to authorized vendor
6	Discarded drums and containers	33.1	2000 No./M	Process	Collection, decontaminations, storage, reuse/ sale to authorized recycler
Non-Hazardous and other Solid Waste					
1	Brine Sludge	-	6804	Caustic Soda Plant	Collection, Storage, transportation and send to MWML, Taloja CHWTSDF
2	Sulphur Sludge	-	396	Sulphuric Acid Plant	Sludge will be given to authorized vendors
3	Fly ash (CPP-I & CPP-II)	-	23846	Coal Based Power Plants	Shall be Sold to Brick making unit
4	STP Sludge	-	0.046	STP	Will be used as Manure in Gardening

Member Secretary

Chairman

"Annexure 23.3"



Item no. 24	**Mining of Quartzite at Bhandara (14.33 ha) [new]** [Shri. P. M. Golchha, Nagpur (M.S.) from 9000 TPA to 90,720 TPA]

PP remained absent hence **deferred.**

Item no. 25	Major Minerals **Ratnagiri (2)**

PP remained absent hence **deferred**.

Member Secretary

Chairman

Item no. 26	**M/s. Vedant Re-Rolls Pvt. Ltd.** New Project 400 MTDPhase III, MIDC Area, Additional Jalna, Dist. Jalna.

The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	VEDANT RE-ROLLS PVT LTD
2	Name, address, & contact number of Proponent	Mr. Narendra Pahade Phase III, Addl MIDC area, Jalna 9422216993
3	Name of Consultant	M/s. Ultra-Tech
4	Accreditation of consultant (NABET Accreditation)	NABET Certificate Number: NABET/EIA/1417/RA010
5	New Project / Expansion in existing project/Modernization/ Diversification in exiting project	New
6	If expansion/Modernization. Whether environmental clearance has been obtained for existing project	New project
7	Activity schedule in the EIA Notification	3(a), "B"
8	Area Details	Total plot Area:53,469.00 m^2 Built up area:24,662.40 m^2
9	Name of the Notified Industrial area / MIDC Area	Phase III, Additional MIDC area, Jalna
10	TOR given by SEAC?	Yes. TOR received during 84th SEAC
11	Estimated capital cost of the Project (including costfor land, building, plant and machinery separately)	Rs 125.00 Cr.
12	Location details of the project :	1. Latitude19°52'30.83"N 2. Longitude75°49'22.82"E 3. Location- A8 additional Jalna 4. Elevation above Mean Sea Level (metres) 563 meters
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Within 10 km area of influence zone there is no protected area, critically polluted area, eco-sensitive areas or inter-state boundaries
14.	Raw materials (including process chemicals, catalysts, & additives).	

S no.	Raw Material	Quantity (TPD)	Logistics
1	MS Scrap	170	By road
2	Sponge Iron	260	By road
3	Ferrous Silicon	0.40	By road
4	Met Coke	0.05	By road
5	Aluminum	0.80	By road

15 Production Details

Name of Products, Byproducts and Intermediate Products	Existing	Proposed activity (new/modernization/expansion)	Total	Total
Main Products MS Billets/Ingot OR	Nil	400 TPD 400TPD	400TPD 400TPD	6000TPM

Member Secretary

Chairman

<table>
<tr><td></td><td></td><td>MS Structural TMT Bar</td><td></td><td></td><td></td><td></td></tr>
<tr><td>16</td><td>Process details / manufacturing details</td><td colspan="5">This industry will be engaged in production of MS Billet/Ingot or MS Structural TMT Bar</td></tr>
<tr><td>17</td><td>Rain Water Harvesting</td><td colspan="5">Proposed to collect the roof top water and collected in tank.</td></tr>
<tr><td>18</td><td>Total Water Requirement Total water requirement:</td><td colspan="5">Fresh water (CMD): 106
& Source MIDC
Recycled water (CMD): 78
Use of the water:
Process (CMD):
Cooling water (CMD):47
DM Water (CMD):
Dust Suppression (CMD):
Drinking (CMD):6
Green belt (CMD):48
Fire service (CMD):
Others (CMD): scrubber 5</td></tr>
<tr><td>19</td><td>Storm water drainage</td><td colspan="5">Natural water drainage pattern By gravity
quantity of storm water
Size of SWD 300x450mm</td></tr>
<tr><td>20</td><td>Sewage generation and treatment</td><td colspan="5">Amount of sewage generation (CMD)12
Proposed treatment for the sewageSTP Proposed
Capacity of the STP (CMD) (If applicable)15CMD Proposed</td></tr>
<tr><td>21</td><td>Effluent characteristic</td><td colspan="5">Water is used only for cooling application; hot water is sent to cooling tower and re-circulated.</td></tr>
<tr><td>22</td><td>ETP details</td><td colspan="5">NA</td></tr>
<tr><td>23</td><td>Note on ETP technology to be used</td><td colspan="5">NA</td></tr>
<tr><td>24</td><td>Disposal of the ETP sludge (If applicable)</td><td colspan="5">NA</td></tr>
<tr><td>25</td><td>Solid waste Management:</td><td colspan="5">Hazardous Waste: Empty oil drum shall be sold to recyclers.
Solid Waste:
<table><tr><td>#</td><td>Particulars</td><td>Quantity</td></tr><tr><td>1</td><td>Ash and slag</td><td>25 MTD</td></tr></table>This solid waste will be used for brick manufacturing and filling of low line area.</td></tr>
<tr><td>26</td><td>Atmospheric Emissions: Flue gas characteristics(SPM, SO2, NOx, CO)</td><td colspan="5"><table><tr><td>S. No.</td><td>Pollutant</td><td>Source of emission</td><td>Emission rate kg/hr</td><td>Concentration in flue gas</td></tr><tr><td>1</td><td>SPM</td><td>Furnace</td><td>1.23 g/sec</td><td>-</td></tr></table></td></tr>
<tr><td>27</td><td>Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx, etc. should be specified</td><td colspan="5"><table><tr><td>Plant section & Units</td><td>Stack No.</td><td>Height from ground level (M)</td><td>Internal Diameter (Top) (m)</td><td>Emission Rate</td><td>Temp. of Exhaust Gases</td></tr><tr><td>Wet Scrubbe, Venturi, ID Fan attached to the furnace</td><td>1</td><td>35</td><td>1</td><td>1.23 g/sec</td><td>140</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></td></tr>
</table>

Member Secretary

Chairman

<table>
<tr><td>28</td><td>Details of Fuel used:</td><td>
<table>
<tr><th>S. No.</th><th>Fuel</th><th colspan="2">Daily Consumption (TPD/KLD)</th><th>Calorific value (Kcals/kg) %</th><th>Ash %</th><th>Sulphur %</th></tr>
<tr><td></td><td></td><td>Existing</td><td>Proposed</td><td></td><td></td><td></td></tr>
<tr><td>1</td><td>Gas</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>2</td><td>Naphtha</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>3</td><td>HSD</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>4</td><td>Fuel Oil</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr>
<tr><td>5</td><td>Coal</td><td>-</td><td>20MTD</td><td></td><td></td><td></td></tr>
<tr><td>6</td><td>Lignite</td><td>-</td><td>-</td><td></td><td></td><td></td></tr>
<tr><td>7</td><td>Electricity</td><td>-</td><td>35000KVA</td><td></td><td></td><td></td></tr>
</table>
Source of Fuel : MSEB
Mode of
Transportation of Transmission line
fuel to site
</td></tr>
<tr><td>29</td><td>Energy</td><td>Power supply:
Existing power requirement:----
Proposed power requirement:35.000KVA

DG sets:320 kVA -1 No.
Number and capacity DG sets to be used (proposed)

Details of the non-conventional renewable energy proposed tobe used :</td></tr>
<tr><td>30</td><td>Green Belt
Development</td><td>Green belt area 9.600 Sq. Mtrs.
Number and species of trees to be planted 120 Nos
Number, size, age and species of trees to be cut, trees to be transplanted Nil</td></tr>
<tr><td>31</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><th>S. No.</th><th>Parameter</th><th>Proposed to be installed</th></tr>
<tr><td>i)</td><td>Air</td><td>Dust collector with wet scrubber proposed</td></tr>
<tr><td>ii)</td><td>Water</td><td>Prefabricated STP</td></tr>
<tr><td>iii)</td><td>Noise</td><td>-</td></tr>
<tr><td>iv)</td><td>Solid Waste</td><td>Collection , Segregation& reuse</td></tr>
</table>
</td></tr>
<tr><td>32</td><td>Environmental Management plan
Budgetary Allocation</td><td>Capital cost = 89.25Lacs

O & M Cost = 9.25Lacs/annum</td></tr>
<tr><td>33</td><td>EIA Submitted (If yes then submit the salient features)</td><td>Yes</td></tr>
<tr><td>34</td><td>Public hearing report (If public hearing conducted then submit the salient features)</td><td>Project comes under MIDC Jalna</td></tr>
</table>

Previous Consideration: Minutes of the 84th Meeting held on 1st & 2nd August, 2014

Decision: The case was considered as B1 category. The case was discussed on the basis of the presentation made by the proponent. Besides the TOR presented by the project proponent and the Model ToR, following points shall also be covered during the preparation of EIA report:

1. The stack height and diameter details.
2. Detailed water balance including Rain Water Harvesting.

Member Secretary

Chairman

3. Scientific storage and disposal of slag and pre-treatment of slag. Storage facility to be shown on layout plan.
4. Water sampling of water in lake of north and its result.
5. 10 station for Ambient Air Quality (baseline and incremental).
6. As the PP proposes to use Pet Coke outsourced from Reliance Industries Ltd, its properties, sulphur content and recovery and control of SO2 emission in EIA to be incorporated.

The environmental consultant to be engaged for preparation of EIA/EMP report should be accredited by Quality Council of India (QCI)/ NABET. For data collection and analysis only MoEF or NABL approved laboratories should be employed. As soon as the draft EIA report is prepared, the same may be submitted to the Maharashtra Pollution Control Board (MPCB) for conducting public hearing as per EIA Notification, 2006 and MoEF OM no. J-11013/36/2014-AI-I dt.16th May, 2014. After revising the EIA Report, addressing all concerns raised during the public hearing /public consultation, the same shall be submitted to the SEAC I, Maharashtra for appraisal.

Previous Consideration: The 111th Meeting held on 28th & 29th September, 2015

Decision: The Committee noted that the project was considered as 3(a) - B1 category of EIA Notification, 2006. The PP gave a detailed presentation of their proposed project to produce billets/ingots of capacity 400 TPD and/or MS structural bars of capacity 400 TPD.

After detailed deliberations the Committee made the following observations:

1. The parking should have a minimum area of 6600 sq. m and to be shown in the layout plan.
2. Pet Coke will not be used for any circumstances as a fuel.
3. Stack height calculation should be given with all details of quantum of particulate matter in the emission. Pollution controlling equipments shall be installed to ensure a particulate level of emissions at the Stack end not to exceed 100 mg/Nm^3.
4. Secondary fume extraction system shall be incorporated as per the CPCB norms.
5. Slag management and disposal shall be carried out without any adverse Environmental Impact.
6. Project requires 138 m^3/day water. PP has not yet obtained consent from MIDC for this. Nor has the PP shown any captive water source. PP will have to produce proper evidence of adequate water availability.

For the compliance of the above points the proposal is deferred.

Previous consideration: The 124th Meeting held on 30th & 31st March, 2016

Decision: The Committee considered the project under 3(a) - B1 category of EIA Notification, 2006. The PP gave a detailed presentation of their proposed project to produce billets/ingots of capacity 400 TPD and/or MS structural bars of capacity 400 TPD.

The proposal was considered in the 111th meeting when certain points of compliance were given. The PP submitted the compliance as follows:

Member Secretary

Chairman

S. no.	Point for compliance	Submission of the PP	Observations of the Committee
1.	The parking should have a minimum area of 6600 sq. m and to be shown in the layout plan.	6600 sq. m has been shown in the layout plan for parking.	**accepted**
2.	Pet Coke will not be used for any circumstances as a fuel.	The PP gave a commitment not to use pet coke as a fuel. Only electric induction furnace will be employed.	**Noted.** However, in the Consent to Establish the MPCB has allowed use of coal in the furnace, Coal should not be used. The MPCB should modify the Consent to Establish.
3.	Stack height calculation should be given with all details of quantum of particulate matter in the emission. Pollution controlling equipments shall be installed to ensure a particulate level of emissions at the Stack end not to exceed 100 mg/Nm^3.	The stack height required has been worked out as 17m considering the particulate matter emissions after the flue gases passed through the pollution controlling equipments has been shown as 1.23gm/s.	**Noted.** It is not clear that how the particulate emissions have been worked out as 1.23gm/s. The PP may produce details of emission levels at furnace source and subsequent reduction in particulate matter as the flue gases passes through the Ventury Scrubber and Cyclone. The stack height calculation may be carried out using the value of particulate matter emissions obtained at the cyclone outlet.
4.	Secondary fume extraction system shall be incorporated as per the CPCB norms.	Secondary fume extraction system has been submitted.	**Noted.** However the calculations as per the observation 3 above will have to be applied for the system.
5.	Slag management and disposal shall be carried out without any adverse Environmental Impact.	Metal content of slag will be separated using electromagnet and the remaining will be used as substitute for road construction material.	**Accepted.** Since slag has glassy material matrix, it does not leach. It will not have any adverse impact on environment.
6.	Project requires 138 m^3/day water. PP has not yet obtained consent from MIDC for this. Nor has the PP shown any captive water source. PP will have to	The PP produced a letter from Deputy Engineer, Jalna indicating that the required quantum of water will be provided, after completion of	Concrete assurance on water supply from MIDC will be required.

	produce proper evidence of adequate water availability.	infrastructure work. No date for completion has been given.	

After detailed discussion the Committee decided to defer the proposal for compliance of point no. 3, 4 & 6 above.

Previous consideration: The 128th Meeting held on 2nd, 3rd & 4th June, 2016

The PP made a presentation on the issues raised in the 124th meeting. After discussion the Committee made the following observations:

1. The revised water budget indicates that water demand of 65 m^3/day is apparently on the basis of production involving manufacturing of structured steel (TMT) and not ingots as indicated in the application of Form 1. Therefore Form 1 will have to be revised by PP and necessary change in the EIA Report with regards to final production shall be made. Secondly quantity of water required for the production has to be worked out process-wise in detail.
2. The PP has given a description of emission control and calculation of stack height. The emission from the induction furnace has been shown as 150 mg/m^3, this should be more rationally worked out on the basis of quantum of scrapped metal charged, the period for which the melting process is carried out and number of 'heats' carried out in an hour. The primary fume calculation should be based on the above variables and stack height calculation should be on the basis of particulate matter emission/hour. Similarly secondary fume extraction has to be managed by roof top suction and containment through scrubber of suitable capacity.
3. The PP submitted a letter of Deputy Engineer, MIDC, Sub-Division Jalna that the request of water for their project could be considered only after the pipeline infrastructure work of MIDC is completed for which a period of 3 months should be required. The Committee desired that a firm assurance for water by Executive Engineer, MIDC shall be submitted.

For the compliance above the proposal was deferred.

Previous consideration: The 133rd Meeting held on 24th & 25th August, 2016

Decision: The Committee noted that the project was considered as 3(a) - B1 category of EIA Notification, 2006. The PP gave a presentation on compliances points raised in 128th meeting. The Committee made the following observations:

1. The revised water balance now is pegged at 105.5 CMD; in the earlier presentations it was shown as 135 CMD and 65 CMD respectively. Reasons for these variations may be given and final figure backed by justification.
2. One induction furnace will be fired at 1 time; if PM emission in 1 heat is taken as 20kg, the stack height comes to 45m. PP has calculated this as 35m and this need to be corrected. The emission management will be through Venturi scrubber and high efficiency hydro cyclone to achieve a TPM level less than 100 mg/Nm^3.

Member Secretary

Chairman

3. PP submitted a letter from Deputy Engineer, MIDC sub-division, Jalna. The letter does not indicate availability of water.

The PP submitted that he had a private tank situated at a distance of 9km from the plant. The Committee desired that its sub-committee should visit the site and verify the water availability. Deferred for the site visit.

Previous consideration: 135th meeting held on 21st, 22nd & 23rd Sept. 2016

Decision: PP remained present. However PP did not produce the requisite yield certificate from GSDA. Hence deferred.

Present consideration: 136th meeting

The Committee noted that the project was considered as 3(a) - B1 category of EIA Notification, 2006. The PP gave a detailed presentation of their proposed project to produce billets/ingots of capacity 400 TPD and MS structural bars of capacity 400 TPD.

PP submitted certificate from Senior Geologist, GSDA Jalna certifying that from the various sources of water 175 CMD of water can be made available. The requirement of water for the project is pegged at 105 CMD.

After deliberations the Committee made the following observations:

1. The layout should have parking of 6600 sq.m and green belt of 33% of open area.
2. Pet coke will not be used under any circumstances.
3. The PP shall have a stack of height 45m. The emission management will be through ventury scrubber and hydrocyclone to achieve an outlet TPM of <100 mg/Nm^3. Secondary fume extraction system shall be incorporated as per the CPCB norms.
4. Slag shall be disposed off without causing any obstruction to existing water courses.
5. PP shall utilize captive sources of water during scarcity months if MIDC is unable to produce requisite amount of water.
6. Metal containing slag will be separated using electromagnet and refuse shall be used as road constructing material.
7. The workers in the plant should be protected from extreme temperature by providing them with heat resistant clothing and adequate rest periods to prevent over exposure. There should be regular health check-ups to monitor physical parameters of workers who are employed near the furnace.

The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above (1-7) conditions.

Member Secretary

Chairman

Item no. 27	**M/s. Alkyl Amines Chemicals Ltd.** 30000 KLPY anhydrous (absolute) alcohol manufacturing plant at plot no. A-7 & 25, MIDC Patalganga, Village-Kaire, Tal-Khalapur, Raigad

The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	30000 KLPA Anhydrous (Absolute) Alcohol Manufacturing Plant at Patalganga MIDC
2	Name, address, e-mail &contact number ofProponent	Shri. Kirat Patel Executive Director Alkyl Amines Chemicals Limited. 401-407 Nirman Vyapar Kendra, Plot No. 10, Sector 17, Vashi, Navi-Mumbai 400703. kirat@alkylamines.com Phone: 022-24920809
3	Name of Consultant	Ultra-Tech
4	Accreditation of consultant (NABET Accreditation)	Ultra- Tech Environment consultancy and Lab (Lab. MoEF gazetted). NABET/EIA/1417/RA010
5	New Project / Expansion in existing project/Modernization/Diversification in exiting project	Expansion
6	If expansion/Diversification, whetherenvironmental clearancehas been obtained forexisting project (If yes,enclose a copy withcompliance table)	Existing plant commissioned during 1986.
7	Activity schedule in theEIA Notification	Synthetic Organic Chemical Industry 5(f)
8	Area Details	Total plot area (Sq. m.):31480
9	Name of theNotifiedIndustrial area / MIDC Area	PatalgangaMIDC Area.
10	TOR given bySEAC? (If yes thenspecify the meeting)	Current proposal was presented in 123rd meeting of SEAC I dated 11th March 2016 to obtain Terms of Reference.
11	Estimated capital cost ofthe Project (including cost for land, building, plantand machineryseparately)	Rs. 4.28 Cr
12	Location details ofthe project :	Plot No. A-7 & 25, MIDC Industrial Area, Patalganga Village – Kaire, Tal. – Khalapur, Dist. –Raigad, Maharashtra. PIN – 410 220 Geographical Co-ordinates Latitude: 18° 52' 52.95" N Longitude: 73° 10' 45.82" E Elevation above Mean Sea Level (meters): 20
13	Distance from ProtectedAreas / Critically Pollutedareas / Eco-sensitive areas / inter-State boundaries	Kamala bird sanctuary is situated at 5.8km, however Patalganga MIDC is located outside the declared Eco-Sensitive zone of the sanctuary.
14	Raw materials (includingprocess chemicals, catalysts, &additives)	Specially Denatured Spirit as raw material Aluminosileate as molecular sieve
15	Production details	30000 KLPA Anhydrous (Absolute) Alcohol

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<table>
<tr><td>16</td><td>Process details / manufacturing details</td><td>AACL propose to use Molecular Sieve method for the dehydration. Molecular sieves are synthetic adsorbents and for vapour phase ethanol dehydration the sieve developed is metal aluminosilcates with effective pore size opening 3 angstrom ($3x10^{-8}$cm). Molecular sieves of type 3A has chemical formula (K_2O. Na_2O). Al_2O_3. SiO_2. XH_2O
During dehydration of ethanol, the water of hydrolysis fills the cavities or pores in the molecular sieves. The potassium form of molecular sieves has pore size of 3 angstrom. The diameter of water molecule is 2.8 angstrom and the diameter of ethanol molecule is 4.4 angstrom. The water vapour molecules are having strong dipoles and elastic. They are drawn into the pores and condensed at the wall of the pores. Ethanol vapour bigger in size passes through the bed without getting in to the pores of the molecular sieves.</td></tr>
<tr><td>17</td><td>Rain Water Harvesting(RWH)</td><td>Level of the Ground water table: NA.
Size and no of RWH tank(s) and Quantity: NA
Location of the RWH tank(s): NA
Size, nos of recharge pits and Quantity: NA
Budgetary allocation (Capital cost and O&M cost): NA
O & M cost Rs.NA</td></tr>
<tr><td>18</td><td>Total Water Requirement</td><td>
<table>
<tr><th>Sr. No.</th><th>Particular</th><th>Existing Input</th><th>Existing Effluent</th><th>Proposed Input</th><th>Proposed Effluent</th></tr>
<tr><td>1.0</td><td>Domestic</td><td>30</td><td>20</td><td>0</td><td>0</td></tr>
<tr><td>2.0</td><td>Industrial</td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>2.1 Processing</td><td>30</td><td>95</td><td>0</td><td>6*</td></tr>
<tr><td></td><td>2.2 Boiler</td><td>95</td><td>20</td><td>0</td><td>0</td></tr>
<tr><td></td><td>2.3 Cooling</td><td>705</td><td>147</td><td>6</td><td>0</td></tr>
<tr><td></td><td>2.4 DM Water</td><td>55</td><td>35</td><td>0</td><td>0</td></tr>
<tr><td></td><td>Total Industrial</td><td>885</td><td>297</td><td>6</td><td>0</td></tr>
<tr><td>3.0</td><td>Gardening</td><td>2</td><td></td><td>0</td><td>0</td></tr>
<tr><td></td><td>Total (1+2+3)</td><td>917</td><td>317</td><td>0</td><td>0</td></tr>
</table>
</td></tr>
<tr><td>19</td><td>Storm water drainage</td><td>Natural water drainage pattern: NA
Quantity of storm water:NA
Size of SWD: NA</td></tr>
<tr><td>20</td><td>Sewage generation andtreatment</td><td>Amount of sewage generation (CMD): 20
Proposed treatment for the sewage: Upto Tertiary Treatment recycled for gardening.
Capacity of the STP (CMD) - 25</td></tr>
<tr><td>21</td><td>Effluent characteristic</td><td>
<table>
<tr><th>SR. NO.</th><th>PARAMETER</th><th>RAW EFFLUENT</th><th>TREATED EFF. QUALITY (MPCB LIMITS)</th><th>UNITS</th></tr>
<tr><td>1.</td><td>pH</td><td>7 – 9</td><td>6.5-8.5</td><td>--</td></tr>
<tr><td>2.</td><td>B.O.D</td><td>1000 – 1500</td><td>Max. 100</td><td>Mg/lit.</td></tr>
<tr><td>3.</td><td>C.O.D</td><td>2000 – 3000</td><td>Max. 250</td><td>Mg/lit.</td></tr>
<tr><td>4.</td><td>T.S.S.</td><td>100 – 250</td><td>Max. 100</td><td>Mg/lit.</td></tr>
<tr><td>5.</td><td>Oil & grease</td><td>3 – 5</td><td>Max. 10</td><td>Mg/lit.</td></tr>
</table>
</td></tr>
<tr><td>22</td><td>ETP details</td><td>Amount of effluent generation (CMD):297m^3/day
Amount of treated effluent recycled (CMD):297m^3/day (direct recycle)
Capacity of the ETP (CMD): 120 m^3(Existing)
Amount of water send to the Sewer Line (CMD):Nil
Membership of the CETP (If require): Already member</td></tr>
<tr><td>23</td><td>Note on ETP technology to be used</td><td>Effluents are treated in ETP by process such as equalization and neutralization followed by biological oxidation. The treated degasified mixed liquor enters the secondary clarifier to separate biomass. Biomass is sent to sludge drying bed. Clarified waste water is treated with tertiary treatment with sand filter and activated carbon. Finally treated water is diluted with cooling tower blow down and released into CETP.</td></tr>
<tr><td>24</td><td>Disposal of the ETP sludge (If applicable)</td><td>30 MTPA Distillation Residue to be sent to CHWTSDF.</td></tr>
</table>

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<table>
<tr><td>25</td><td>Solid waste Management</td><td>
<table>
<tr><td>Waste</td><td>Qty</td><td>Treatment</td><td>Disposal</td></tr>
<tr><td>Distillation Residue</td><td>30mt/year</td><td></td><td>CHWTSDF/ Authorized co-processor</td></tr>
</table>
</td></tr>
<tr><td>26</td><td>Atmospheric Emissions(Flue gas characteristics
SPM, SO2, NOx, CO, etc.)</td><td>No additional emissions envisaged from proposed project. Hence, new stack is not proposed</td></tr>
<tr><td>27</td><td>Stack emission Details:
(All the stacks attached toprocess units, Boilers,captive power plant, D.G.Sets, Incinerator both forexisting and proposedactivity). Please indicatethe specific section towhich the staek is attached.e.g.: Process section, D.G.Set, Boiler, Power Plant,incinerator etc.
Emissionrate(kg/hr) for eachpollutant (SPM, SO2, NOxetc. should be specified</td><td>No additional emissions envisaged from proposed project. Hence, new stack is not proposed</td></tr>
<tr><td>28</td><td>Emission Standard</td><td>No new stack proposed</td></tr>
<tr><td>29</td><td>Details of Fuel to be used:</td><td>Type:- Imported / Indian Coal
Transportation: - Through dumpers from Port.
The existing consented quantity of 96 MTD imported coal / 140 MTD Indian coal is sufficient to cater for this proposed expansion.
No additional requirement for proposed expansion.</td></tr>
<tr><td>30</td><td>Energy</td><td>Existing Total power requirement
Connected load – 3622 KW
Maximum Demand – 1860 KVA
Source : MSEDCL (22 KV express Feeder)
Proposed Loads Connected - 150 KW
Consumed - 75 KW</td></tr>
<tr><td>31</td><td>Green Belt Development</td><td>Green belt area (Sq. m.): 1840 m^2
Existing No. of trees: 183 Nos.
Number, size, age and species of trees to be cut, trees to be transplanted: Nil</td></tr>
<tr><td>32</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><td>S. No.</td><td></td><td>Existing</td><td>Proposed to be installed</td></tr>
<tr><td>i)</td><td>Air</td><td>Dust Collector & Scrubber for Steam Boiler & Stack as per MPCB</td><td>Not applicable for proposed alcohol manufacturing plant</td></tr>
<tr><td>ii)</td><td>Water</td><td>Treated effluent to CETP after treatment in ETP
Domestic sewage to greenbelt after treatment in STP</td><td>Not applicable for proposed alcohol manufacturing plant</td></tr>
<tr><td>iii)</td><td>Noise</td><td>Acoustic enclosures provided to D.G. Set.
The noise levels in the day time shall be maintained 75dB(A) and 70 dB(A) during night time.
Trees act as a Noise Buffer.</td><td>Acoustic enclosures will be provided to D.G. Set.
The noise levels in the day time shall be maintained 75dB(A) and 70 dB(A) during night time.
Trees act as a Noise Buffer.</td></tr>
<tr><td>iv)</td><td>Solid Waste</td><td>To Authorized Ageney</td><td>To Authorized Ageney</td></tr>
</table>
</td></tr>
<tr><td>33</td><td>Environmental Management plan
Budgetary Allocation</td><td>
<table>
<tr><td>Total Investment (Existing & Additional)</td><td>Capital (Rs. Lakh)</td><td>O & M cost (Rs.Lakh)</td></tr>
<tr><td>Air Pollution Control (Serubber & Vent absorber)</td><td>178</td><td>2</td></tr>
<tr><td>ETP</td><td>99.45</td><td>33.54</td></tr>
<tr><td>Occupational Health Centre & ECC</td><td>14</td><td>2.72</td></tr>
<tr><td>Gardening cost</td><td>1.5</td><td>0.25</td></tr>
<tr><td>Hazardous waste disposal & Transportation</td><td>...</td><td>4.26</td></tr>
<tr><td>CETP cost (Avg. Basis 14-15)</td><td></td><td>20.2</td></tr>
<tr><td>Total</td><td>292.95</td><td>62.97</td></tr>
</table>
</td></tr>
</table>

34	EIA Submitted (If yes then submit the salient features)	EIA report was prepared as per standard ToR prescribed by MoEF&CC

Previous consideration: The 123rd Meeting held on 11th & 12th March, 2016

Decision: The project was considered under 5(f)-B1 category of EIA Notification 2006. The PP gave a detailed presentation of each proposal to expand capacity of existing industrial unit by manufacturing anhydrous alcohol (Ethanol) by molecular sieves to the extent of 30000 KLPY. The Committee considered the proposal for approval of ToR.

The PP submitted that the process will not consume any extra water and would be a Zero Liquid Discharge Process. Considering the hazardous nature of raw materials and products, a separate chapter on Risk Assessment and Risk Mitigation shall be a part of EIA Report. The PP shall install a STP of 20 CMD for treatment of domestic waste water.

For the EIA report the prescriptions of Model ToR by MoEF published in Notification dated April, 2015 shall be adopted. After detailed discussion, the Committee decided to approve ToR in the lines mentioned above.

Previous consideration: The 134th Meeting held on 7th, 8th& 9th September, 2016

Decision: The PP gave a detailed presentation of their EIA report pertaining to the capacity expansion of existing industrial unit by producing anhydrous Ethanol by molecular sieves to the extent of 30000KLPY. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification, 2006.

The process envisages dewatering of raw materials (specially Denatured Spirit). The process does not involve any addition in water intake and effluents generation. (6 m^3/day of water generated) will be recycled. No additional manpower would be required for the process.

The Committee discussed in detail about the non-functional CETP at MIDC Patalganga. The concern of the Committee has already been conveyed to the CEO MIDC. Apparently no action has been taken yet. The present PP is also a member of CETP Association and the project contributes to effluent inflow to CETP. Under present circumstances such inflows are not treated but are directly deposited in the creek jeopardizing health and safety of the public.

Unless the CETP at Patalganga MIDC is functional the Committee cannot recommend any new projects in MIDC Patalganga. Therefore the item is deferred.

Previous consideration: 135th meeting held on 21st, 22nd & 23rd Oct. 2016

Decision: In pursuance of the Committee's contention that it would not be possible to appraise the project unless the CETP which has been dysfunctional for a long time is revived, the PP submitted the Termination Notice served by the MIDC on M/s. Hydroair Tectonics (PCD) Pvt. Ltd. (the operators of the CETP) and M/s. Patalganga and Rasayani Industries Association. The PP submitted that a meeting was held on 10.8.2016 under chairmanship of CEO, MIDC in which it was decided that, pending

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finalization of the court matter, procedure to appoint the new agency to run the CETP at MIDC Patalganga should be taken up. The Committee noted this development but felt that there is, still, no credible indication that the CETP will be revived.

The Committee decided to defer the project in the light of this contention and hoped that the MIDC will ensure operating of the CETP at the earliest, so that the present proposal can be considered.

Present consideration: 136th meeting

The Committee noted that the MIDC has initiated the process of reviving the defunct CETP at Patalganga. The Committee decided to follow-up with MIDC to ensure that CETP shall be made functional at the earliest so that environmental sanctity of water bodies were not compromised. In this context the Chairman, SEAC I spoke to Chief Engineer, MIDC who confirmed that CETP will be made operational through a new agency within 3 months.

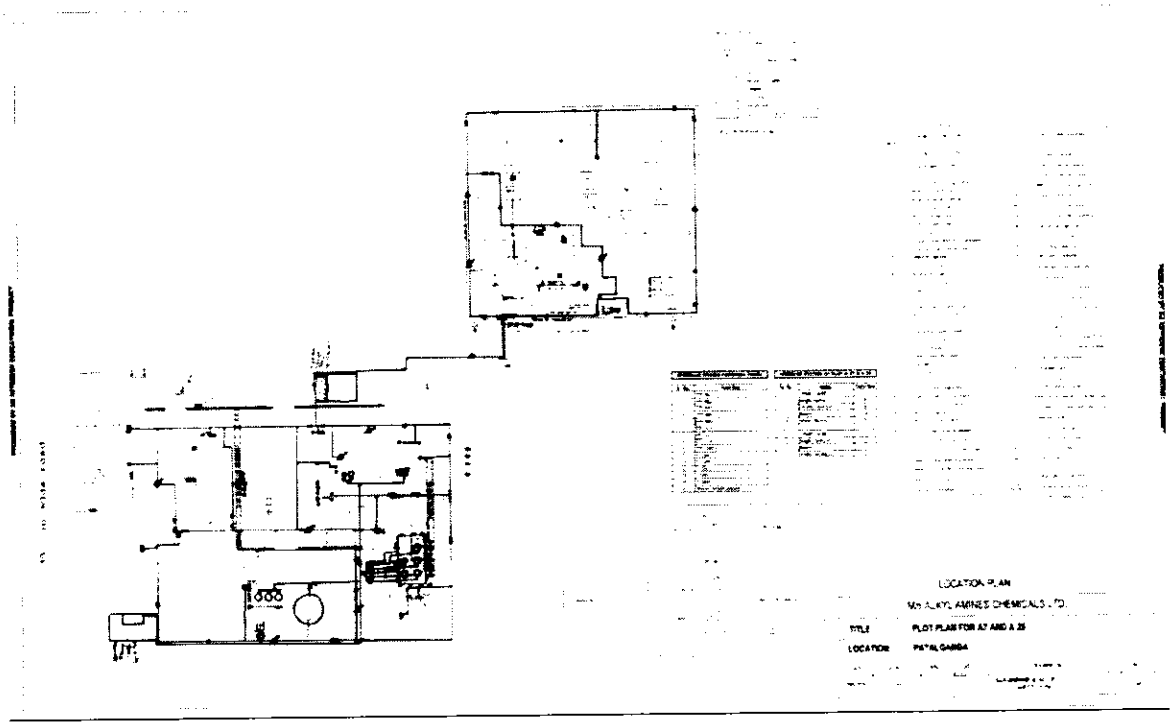
The recommendation for EC of present project should be conditional to the CETP at Patalganga being made fully functional.

After deliberations the Committee made the following observations:

1. ***Annexure 27.1*** gives details of hazard management facility that PP will provide. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration.
2. ETP should be revamped to achieve a TAN (Total Ammonical Nitrogen) level of <50 mg/lit.

The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the above conditions and observations.

"Annexure 27.1"



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"Annexure A"

The Specific and General conditions applicable for Mining of Stone:

Specific conditions:

1. Provisions stipulated in Maharashtra Minor Minerals Extraction (development and Regulation) Rules 2013 shall be strictly adhered to.
2. District Collector and District Mining officer will be held responsible personally for non-compliance of the conditions stipulated in the Environmental clearance and shall be liable for legal action under Environment (Protection) Act of 1986.
3. District Collector will take bank guarantee of Rs. 2,00,000/- OR upto 2% of the annual royalty, whichever is higher, for the given lease from the lease holder to ensure the compliance of the conditions stipulated. In case of violation of stipulated conditions by project proponent bank guarantee so obtained shall be forfeited and legal action under the law should be initiated against such project proponent.
4. It shall be ensured that there is no fauna dependent on the areas close to mining for its nesting.
5. To prevent dust / particulate matter pollution, the lease holder shall take up tree plantation in an area 10 m from the boundary of the leased area and also on either side of the road leading to the quarry from the already surfaced road.
6. District Collector and Project proponent to ensure that there is no violation of the Supreme Court order given in related matters.
7. District Collector shall prepare closure plan and get it approved by the competent authority for all abandoned mines in the District.

General conditions:

1. Precise mining area will be jointly demarcated at site by officials of Mining/Revenue department prior to mining operations for all proposals under consideration. Such site plan, duly verified by competent authority shall be submitted to Environment Department.
2. All necessary statutory clearances shall be obtained before start of mining operations.
3. Mining / loading shall be limited to day hours' time only. The quarrying / loading shall not be done during night hours.
4. No mining shall be carried out in the safety zone of any bridge and/or embankment.
5. No mining shall be carried out in the vicinity of natural/ manmade archeological sites.
6. The lease holder shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if required for the project.
7. Waste water, if any, shall be properly collected and treated so as to conform to the standards prescribed by MoEF/CPCB.
8. No wildlife habitat will be infringed.
9. Where, the quarrying is in a hilly terrain hill cutting shall be allowed only in the recharge zone to be identified by the officials of GSDA.
10. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, if applicable to this project.
11. Green belt development shall be carried out considering CPCB guidelines including selection of plant species in consultation with the local DFO/Horticulture Officer.
12. Parking of vehicles should not be made on public places.
13. Transportation of materials shall be done by covering the trucks / tractors with tarpaulin or other suitable mechanism so that no spillage of mineral/dust takes place.
14. Appropriate mitigation measures shall be taken to prevent any kind of pollution in consultation with the Maharashtra Pollution Control Board. It shall be ensured that there is no leakage of oil and grease from the vehicles used for transportation.
15. Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.

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16. Special Measures shall be adopted to prevent the nearby settlements from the impacts of mining activities. Maintenance of roads through which transportation of minor minerals is to be undertaken, shall be carried-out regularly.
17. Dispensary facilities for first-aid shall be provided at site.
18. Occupational health surveillance program of the workers should be undertaken periodically.
19. Provision shall be made for housing the workers at site, if required, with all necessary infrastructure and facilities such as fuel for cooking, safe drinking water, medical health care and sanitation etc.
20. Ambient air quality will be monitored at the site and the nearest habitation in the months of January, April and November. Ambient air quality at the boundary of the precise mining area shall conform to the norms prescribed by MoEF, GOI.
21. Measures shall be taken for control of noise levels to the limits prescribed by CPCB.
22. An Environmental Audit shall be annually carried out during the operational phase and be submitted to the Environment Department.
23. Digital processing of the entire lease area in the district using remote sensing technique shall be done regularly once in three years for monitoring and report submitted to the Environment Department. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure on environmental protection measures shall be reported to the Regional Office, Ministry of Environment and Forests, Bhopal.
24. Revenue Authorities shall submit within 3 months their policy of (i) Standard operating process/ procedure to bring into focus any infringement/deviation /violation of environmental norms /conditions, (ii) Hierarchical system or Administrative order to deal with environmental issues and to ensure compliance of EC conditions and (iii) System of reporting of non-compliance /violation of environmental norms to the District collector.
25. The Mining officer shall submit six monthly reports in hard and soft copy on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard & soft copies) to the Environment Department, and the District Collector and the respective Regional Office of the Maharashtra Pollution Control Board.
26. Any change in mining area, khasra /Gat numbers, entailing capacity addition with change in process and or mining technology, modernization and scope of working shall again require prior Environmental Clearance as per provisions of EIA Notification, 2006 (as amended).
27. SEAC-I has appraised the proposals on the basis of information submitted by concerned District Mining Officer. Mining Officer shall submit the list of blocks satisfying conditions stipulated above to Revenue & Environment dept. The list of blocks and conditions stipulated above shall be made available in public domain. It should be published in two local language newspapers and displayed at each block where mining operation is proposed. District mining officer should ensure this and submit compliance report to Environment department with approval from Collector.

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