

The 135th Meeting of State Level Expert Appraisal Committee - I held on 21st, 22nd & 23rd September, 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	21 st , 22 nd & 23 rd Sept. 2016
Prof. (Dr.) Bhaskar N. Thorat	Member	21 st Sept. 2016
Shri. Chandrakant I. Sambutwad	Member	21 st , 22 nd & 23 rd Sept. 2016
Prof. (Dr.) Ramesh Dod	Member	21 st , 22 nd & 23 rd Sept. 2016
Shri. D A Hiremath	Member	absent
Shri. Madan M. Kulkarni	Member	21 st & 23 rd Sept. 2016
Shri. Balbir H. Sehgal	Member	21 st , 22 nd & 23 rd Sept. 2016
Shri. M. B. Hajari	Member Secretary	21 st , 22 nd & 23 rd Sept. 2016

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

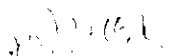
*	Confirmation of minutes of 134th meeting
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The minutes of the 134th SEAC-I meeting were **confirmed** unanimously.

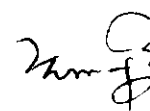
Discussion Item 1	Discussion on site visit reports
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1. M/s. Alkyl Amines Chemicals Ltd., MIDC Kurkumbh

The Committee went through the visit report (enclosed as *Annexure C*). The visit report shall be considered while appraising the project.



Member Secretary



Chairman

"Annexure C"

Visit report- M/s. Aikyl Amines Chemicals Ltd. At MIDC Kurlumbh

Date- 14.9.2016

Pursuant to the decision taken in the 134th meeting a sub-committee comprising of following members along with Shri. Shinde, FO Pune, MPCB and representatives of PP visited the site on 14.9.2016-

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

The sub-committee made the following observations:

1. At the outset the sub-committee observed that there is a scope for conserving water by reusing the treated utility effluents and STP effluents for gardening and flushing. The PP should achieve this through process reengineering and must save 300-345 CMD of fresh water from MIDC.
The PP should take necessary steps to effect such saving.
2. The Hydrocavitation trials are still in progress they aims at determining optimum operating condition [pressure initial and final temperature, contact time etc.]. The PP was unable to give any definite time frame in which the trials can be completed and cavitation process upscaled for industrial application.
The sub-committee has noted that under the circumstances PP will have to ensure that effluent management is geared up to address the achievement of consent parameters of BOD, COD, TDS and TAN.
This becomes more pertinent with respect to sisters concern at Patalganga where the only option appears to be revival of CETP without further delay.
3. The Nitrification- Denitrification process appears to be casually taken up. The entire ETP needs to be revamped under the supervision of technical expert/ MPCB to ensure the achievement of consented parameter particularly TAN, TDS and COD.
4. The proposed expansion should ensure the Zero Liquid Discharge by its own. MPCB should ensure this before granting Consent to Operate.
5. The minimum stack height provided needs to be increased to 30m for all boilers operating on coal, bagasse, FO etc.



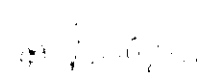
T. C. Benjamin



Ramesh Dod

2. M/s. Aikyl Amines Chemicals Ltd., MIDC Patalganga

The Committee went through the visit report (enclosed as *Annexure D*). The visit report shall be considered while appraising the project.


Member Secretary


Chairman

Annexure 'D'

Visit report- M/s. Alkyl Amines Chemicals Ltd. At MIDC Patalganga

Date- 13.9.2016

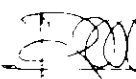
Pursuant to the decision taken in the 134th meeting a sub-committee comprising of following members along with Shri. Sachin Desai, FO MPCB and representatives of PP visited the site on 13.9.2016-

1. Shri. T. C. Benjamin, Chairman
2. Prof. (Dr.) Ramesh Dod, Member
3. Prof. (Dr.) Bhaskar Thorat, Member
4. Shri. Balbir Sehgal, Member

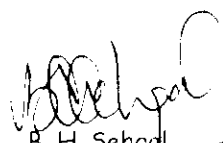
The sub-committee made the following observations:

- I. The sub-committee has seen the existing ETP and has noted that there is no separate treatment for TAN (total Ammonical Nitrogen) bearing effluents. The PP has agreed to provide Hydrocavitation reaction in a time bound manner and intends to recycle the effluents to achieve Zero Liquid Discharge status.
- II. The sub-committee noted that the utility effluents are directly ~~mix~~ mixed with treated trade effluents and sent to CETP. But CETP is dysfunctional since last 1 year the sub-committee is of the opinion that PP should reuse the treated effluents either wholly or partly and facilitate water conservation. The revised water budget may be submitted.
- III. The sub-committee has noted that there was no treatment of domestic sewage. It should be treated in a compact STP of size 10 CMD and treated sewage should be recycled back for flushing or gardening within own premises.
- IV. PP should provide the silos for 07 days storage of fly ash.
- V. The PP should improve the air pollution controlling system so as to achieve the desired outlet TPM levels for both coal fired and FO based boilers.
- VI. All DG sets stacks should be 3m above the roof top in the premises.
- VII. Mode of disposal of by-product spent caustic and aqueous Sodium Bromide should be detailed.


T. C. Benjamin

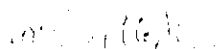

Ramesh Dod


B.N. Thorat


B. H. Sehgal

3. Jalna Steel Mills Visit- M/s. Gayatri Ispat Pvt Ltd., M/s. Vedant Re-Rolls Pvt. Ltd., M/s. Gajlaxmi Steel Pvt Ltd., M/s. Kalika Steel Jalna Pvt Ltd.

The Committee went through the visit report (enclosed as *Annexure E*). The visit report shall be considered while appraising the project.



Member Secretary



Chairman

"Annexure E"

Visit report- Jalna Steel Mills

Date -17.9.2016

A sub-committee comprising of the following members visited the four steel mills situated in Additional MIDC, Jalna- M/s. Kalika Steel Jalna Pvt Ltd., M/s. Vedant Re-Rolls Pvt. Ltd., M/s. Gajlaxmi Steel Pvt Ltd. and M/s. Gayatri Ispat Pvt Ltd. on 17.9.2016-

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

The visit was occasioned due to the persistent concern of the Committee regarding availability of water required by the steel plants for their expanded activity. MIDC Jalna has been providing water for their industries from the Jayakawadi Dam, which, due to continuous failure of monsoon has not been able to provide water even for the basic need of domestic consumption (7% storage on 1st Oct. 2015) Jalna.

District itself has persistent water scarcity, borne out of scanty rainfall. As against the average rainfall of the district of 650-750mm, the district has been experiencing drought with rainfall recording as low as 400-450mm (source: official website of Jalna District).

The rainfall details of Jalna is as follows (source: official website of Jalna District):

Annual average	2012	2013	2014	2015
700.9 mm	348.4mm	823.7mm	438.5 mm	634.0mm

The historically scanty rainfall has resulted in poor ground water potential, as depicted in the following table [source: Central Ground Water Board] -

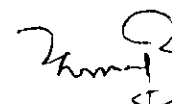
Taluka	Area type	Net annual ground water availability	Stage of ground water development
Jalna	command	1281 ha m/year	53-58%
	Non-command	11884.04 ha m/year	
	total	13165 ha m/year	

It is with this background of acute water scarcity that the situation of the 4 steel plants have to be seen. Their water requirements, as per the submissions of the respective PPs are as follows (after expansion):

M/s. Kalika Steel Jalna Pvt Ltd.	100 CMD	700 TPD
M/s. Vedant Re-Rolls Pvt. Ltd.	105 CMD	400 TPD
M/s. Gayatri Ispat Pvt Ltd.	135 CMD	1000 TPD
M/s. Gajlaxmi Steel Pvt Ltd.	65 CMD	250 TPD



Member Secretary



Chairman

The sub-committee is of the view that the precarious water situation in Jalna warrants the PPs to provide at least 4 months' requirement from captive sources and not MIDC's water supply. This will mean that the individual industries should have captive storages of water in the 4 summer months to the extent shown below:

S. no.	Name of the project	Water requirement (captive) in the month of March-June
1.	M/s. Kalika Steel Jalna Pvt Ltd.	12000 m ³
2.	M/s. Vedant Re-Rolls Pvt. Ltd.	12600 m ³
3.	M/s. Gayatri Ispat Pvt Ltd.	16200 m ³
4.	M/s. Gajlaxmi Steel Pvt Ltd.	7800 m ³

M/s. Kalika Steel Jalna Pvt Ltd.

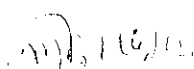
Total water requirement- 100 CMD

Actual requirement	water	Description of captive sources	Observations of the sub-committee
100 CMD		<p>The PP has shown two captive sources of water-</p> <p>1) Sirsawadi 2) Jalna Rural</p> <p>1. In Sirsawadi, the PP has a open well of 5m diameter and 12m depth located at a distance of 100m from the foot of percolation tank. GSDA has indicated the water availability of 75 CMD in summer.</p> <p>2. In Jalna Rural, the PP has a open well of 6m diameter and 12m depth. GSDA has indicated water availability of 50 CMD. This well is at a distance of 6 km from the site.</p>	<p>1) Due to frequent cut, the PP has to install a DG set of suitable capacity.</p> <p>2) Considering the evaporation and yield losses the water availability will be only 60% of the total availability indicated by GSDA which comes to be 99 CMD.</p>

M/s. Gajlaxmi Steel Pvt Ltd.

Total water requirement- 65 CMD

Actual requirement	water	Description of captive sources	Observations of the sub-committee
65 CMD		<p>PP has shown a captive source which is at a distance of 5km from the proposed project site. Dimensions of the storage well are 50m x 20m x 4m.</p>	<p>1. It is a lined tank with no ground water recharge. Its capacity is only 4000 m³ which is less than water requirement of 65 x 120 = 7800 m³.</p> <p>2. This will not be sufficient to meet the needs of the PP.</p>



Member Secretary



Chairman

M/s. Vedant Ps-Polls Pvt. Ltd.

Total water requirement- 105 CMD

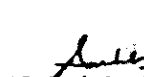
Actual requirement	water	Description of captive sources	Observations of the sub-committee
105 CMD		<p>The PP has shown two open wells in MIDC plot where PP intends to establish this plant.</p> <p>1st well is 5m in diameter and 12m depth of water. It can yield 50 CMD of water.</p> <p>2nd is unlined open well of 5m diameter and having 5m water depth.</p> <p>The PP has constructed two bore in the same plot of 6.5 or 1.5 inch diameter.</p>	<p>1. IInd open well cannot be considered as a reliable water source for running a steel industry.</p> <p>2. The yield certificates of these 2 bore wells were not available.</p> <p>The PP mentioned about the Nalla 14km away from their proposed site which PP claims that can yield sufficient quantity of water if one end is closed. This is an impractical suggestion and distance involved is uneconomical. Therefore cannot be accepted.</p>

M/s. Ganatri Inest Pvt Ltd.

Total water requirement- 135 CMD

Actual requirement	water	Description of captive sources	Observations of the sub-committee
135 CMD		<p>The PP has shown two captive sources:</p> <p>1) Unlined quarry of size 60m x 30m x 6m. Available water comes to 6400 m³ considering 40% evaporation loss.</p> <p>2) IInd source is of proposed reservoir to be constructed in a plot owned by the PP at a distance of 1km from the proposed site.</p> <p>There is also a well of 9.4 m diameter and 20m depth. The yield details has not been furnished.</p>	<p>1. This falls short of the requirement for four summer months amounting to 16200 m³.</p> <p>2. Therefore the only acceptable source can provide 6400 m³ of water during summer which falls short of the requirement of 16200 m³.</p>


T.C. Sarjemin
Chairman


C.I. Samburwad
Member


Ramash Dod
Member


B.H. Sengal
Member


Madan Kulkarni
Member

4. **M/s. Ipca Laboratories Ltd., Waluj, Aurangabad**

The Committee went through the visit report (enclosed as *Annexure F*). The visit report shall be considered when the item is taken in the agenda.

Member Secretary

Chairman

"Annexure F"

Visit report- M/s. Inca Laboratories Ltd.

Date- 16.9.2016


A sub-committee comprising of following members visited the site on 16.9.2016 along with Dr. Sangwar, 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:

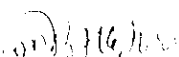
- I. The sub-committee noted that the industry is in operation since 2000 but the PP has not obtained the Environmental Clearance even though their manufacturing activity falls under 5(f) of the EIA Notification 2006.
- II. It was suggested by the sub-committee that one more gate should be provided considering 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/Nm³. PP is instructed to improve the air pollution control system [bag filter] in a time bound manner so as to ensure the outlet TPM \leq 100 mg/Nm³.
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. 1	Minor Minerals (sand) Pune [134th compliance]
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Previous consideration: The 134th Meeting held on 7th, 8th & 9th September, 2016

Decision: The proposals were considered under 1(a)-B2 category of the schedule of EIA Notification 2006. In the 116th meeting, the Committee had deferred some cases which were in the submergence of Ujani dam, since Hon'ble High Court had given a stay on extraction of sand in the submergence of Ujani dam. The PP brought to the notice of the Committee that the said stay granted by Hon'ble High Court has been lifted in the light of the fresh policy on desilting of reservoirs adopted by the State Government.

The Committee observed that the certificate of GSDA was ambiguous with respect to depth of sand available. Unambiguous report required to be submitted by the PP. Deferred.

Present consideration: 135th meeting

The proposals were considered under category 1(a) - B2 of the schedule of the EIA Notification 2006. The Committee reconsidered the 7 proposals previously discussed in the 134th meeting. Senior Geologist, GSDA explained how the depths of sand were measured using steel rods. The excavation of sand is limited to only 1m in all the cases and more than 2m of sand will remain in the river bed after excavation.

Gramsabha resolutions have been obtained in all the proposals. There are no riverine structures within 500m of sand gats. After considering all aspects of Environmental Impact the Committee decided to **recommend the 7 proposals** as depicted in the table below for EC subject to the conditions given after the table:

Sr. no.	Name Of village	Taluka	Name Of the River	Cluster Number	Location Of the Sand Gut (Gut No.) etc	Area of the sand block (L x B) in m2	Area in Hect.	Total depth of sand in block as per GSDA in (M)	Tptal depth recoman ded by GSDA for excavation (m)	Permitted sand resources LxBxD in m3 = Brass	GSDA certifi - cate (Y/N)	Gram Sabha certific- ate (Y/N)	Wether Block marking is cluster (Y/N)
1	Palasdev	Indapur	Bhima River	-	262, Old Gavthan. 1, 2, 3, 5, 6, 7	925x110	10.18	4.50	1.00	35954	Y	Y	N
2	Diksal	Indapur	Bhima River	-	2 to 11, 23, 24	1250x100	12.50	4.15	1.00	44170	Y	Y	N
3	Kalthan-1	Indapur	Bhima River	-	1 to 11, 22, 24, 25, 147, 153, 154, 157, 163	1000x130	13.00	4.25	1.00	45936	Y	Y	N
4	Kumbhargaoon	Indapur	Bhima River	-	328 to 345	697x130	9.06	4.75	1.00	32018	Y	Y	N

[Signature]

Member Secretary

[Signature]

Chairman

5	Kalewadi	Indapur	Bhima River	-	126, 144, 145, 153, to 156, 167, 172 to 176, 185, 205 to 214, 243 to 250, 259, 260, 261, 263, 266	1080x85	9.18	4.50	1.00	32438	Y	Y	N
6	Dalaj No. 1	Indapur	Bhima River	-	1054, 135, 107, 108, 1255, 1245, 1246, 1247, 1252	876x160	14.02	4.25	1.00	49527	Y	Y	N
7	Dalaj No. 3	Indapur	Bhima	-	514 to 521, 525, 526	600x150	9.00	4.25	1.00	31802	Y	Y	N

Conditions:

1. **Annexure B**
2. Only manual mining will be allowed. If PP desired to use suction machines, the explicit permission of State Govt. shall be taken.
3. Decision of the Committee will be subject to the decisions of the Hon'ble High Court regarding these sand gats.
4. A minimum of 2m of sand depth should be left on the river bed after excavation.
5. No excavation shall be allowed 500m from any bridge or riverine structures.

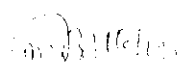
Item no. 2	M/s. Novozymes South Asia Pvt. Ltd. (ToR) For proposed manufacture of enzymes at plot no. A-1, Patalganaga-Borivali Industrial Area, Raigad
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The PP gave a detailed presentation for manufacturing enzymes to the extent of 75 Tons/Month and blending and repacking of solid product (750 Tons/Month). and liquid product (800 Tons/Month). The Committee went through the presentation and concluded that neither process nor the establishment of the industry will come under any of the categories of EIA Notification 2006. However the activity affect Air and Water Acts. and hence MPCB should consider this aspect while granting Consent.

It will, therefore not be necessary to appraise the Project for EC; hence **delisted**.

Item no. 3	ChemSpec Chemicals Pvt. Ltd. Proposed expansion industrial project at plot no 3-c, Taloja, MIDC, Panvel, Raigad
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The project was considered under 5 (f) B1 category of EIA Notification, 2006. The PP gave a detailed presentation of their proposed expansion of manufacturing of Cosmetics and Pharma intermediates from 1476 MT/annum to 6132 MT/ annum.



Member Secretary


Chairman

The Committee recalled the points raised in the ToR prescriptions and site visit conducted on 9.10.2015; in particular providing space for parking, ETP and the need for proper housekeeping practices to keep the environment clean.

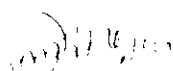
After detailed discussion the Committee made the following observations:

1. The baseline studies indicate that Ambient Air Quality with reference to PM₁₀ and PM_{2.5} are abnormally high. In this context the MPCB shall be alerted through a letter to its Member Secretary.
2. PP intends to procure land from nearby Choksey Chemicals Pvt. Ltd. (Plot no. 3B). MOU has been signed in this regard. However the layout does not show any space for parking and ETP. Revised layout may be submitted in this regard. A small gate shall be provided on south-eastern side of the plot. Parking space shall be increased from the present 5% to 12%.
3. Several products are hazardous in nature and may be mutagenic, carcinogenic and teratogenic. Some of these products are banned in some countries. In this context thorough MSDS studies shall be carried out with reference to following chemicals-
 - i. Trichlorocarbanilide (TCC)
 - ii. Triphenyl tetrazoyl Bromo Biphenyl (TTBB)
 - iii. 4- Bromomethyl 2- cyanbifihellyl (Bromo OTBN)
 - iv. Trizene group compounds (EHT, DHBT, Tinosorb S, Tinosorb M)
4. The PP shall not deploy EDC which is a known carcinogenic and an alternate solvent may be indicated.
5. The water balance may be reworked w.r.t following -
 - a. The reuse of utility effluents after passing through RO
 - b. STP effluents to be used for gardening
 - c. Boiler blow down
6. New STP of 30 CMD shall be installed. ETP shall be upgraded from 56 to 150 CMD. The location of these facilities shall be shown in the layout. Sludge drying beds may be replaced by mechanical sludge dewatering (centrifugal decanter).
7. Flue gases produced from 2 boilers and 2 thermopacks shall be passed through stack of appropriate height considering Indian coal (worst possible scenario). TPM calculations may be submitted.
8. Bio-refractory effluent should be mineralized through pre-treatment.
9. Proper names [IUPAC] of chemicals shall be given.

For the compliances of the above, the item was **deferred**.

Item no. 4	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.
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PP remained absent hence **deferred**.



Member Secretary



Chairman

Item no. 5	M/s. Jay Bhavani Ispat Pvt.Ltd. Proposed steel plant with rolling mill of of MS/SS/Alloy steel Billets, Ingots, Round bars, Rolled Product, wires, forging and structural item on the plot bearing Gat No.23,27, 22/1 (p) , 15(p) at village Abhitghar, Tal. Wada, Thane
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PP remained absent hence **deferred**.

Item no. 6	M/s. Vinati Organics LTD. (ToR) At plot no. A-20 & D-30/2, Lote MIDC, Lote Parshuram, District- Ratnagiri.
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The project was considered under 5 (f) B1 category of EIA Notification, 2006. The PP gave a detailed presentation for ToR for replacing their existing product Tertiary Butanol (which was included in previous EC along with 7 other products ATBS, Na-ATBS, IB, DAAM, MTBE, PTBT, TOA, Methyl ester) with Para Tertiary Butyl Phenol, taking advantage of the market demand. This change apparently does not create significant impact on the environment but all the same, will require an analysis of the industrial production process of Para Tertiary Butyl Phenol.

Therefore the Committee desired all the production processes of the various products should be considered individually as well as wholistically.

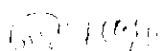
The manufacturing capacities will be modified as follows:

Existing EC covered products (1, 37,000 TPA) – Tertiary Butanol (10000 TPA) + Para Tertiary Butyl Phenol (43000 TPA) = 1, 70,000 TPA

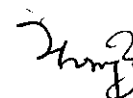
After detailed discussion the Committee made the following observations:

1. The project should be a Zero Liquid Discharge Process. So that the load in CETP at Lote MIDC will not increase due to the present project.
2. PP wishes to deploy a thermopac of 30 lackcal/hr using Indian Coal. Emission management shall be done to ensure a TPM of < 100 mg/Nm³.
3. HAZOP study shall be carried out for all the processes together as well as processes involving production of specific products, in particular *Lili-Aldehyde*.
4. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

The Committee decided to **approve ToR** subject to the above observations (1-4).



Member Secretary



Chairman

Item no. 7	M/s. Galaxy Laboratories Pvt. Ltd. Prop. Intermediates and specialty agro chemicals at plot no. B10, Newasa MIDC, at post-Tukai Shingve, Newasa, Ahmednagar
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The brief information of the Project as submitted by the PP is as follows:

1	Name of project	Proposed Intermediate and specialty chemicals (Synthetic organic chemicals) manufacturing unit for API by Galaxy Laboratories Pvt. Ltd. at Plot No. B-10, MIDC Newasa industrial area At Post. Tukai - Shingve, Taluka. Newasa Dist. Ahmednagar																		
2	Name, address, e-mail & Contact number of Proponent	Name: Shrikant Deshmukh (M.D.) Address: Galaxy Laboratories Pvt. Ltd., Plot No. B 22, MIDC Aurangabad industrial area, Gut No 34, Grampanchayat Satara Parisar, Beed by pass road, Aurangabad. 431005 Telephone number: +91-240-2376105, 2376119 Mobile Number: --9822029283 Email id: shrikant.d@galaxylaboratories.com																		
3	Name of consultant	Aditya Environmental Services Pvt. Ltd.,																		
4	Accreditation of Consultant (NABET Accreditation)	5 (f)- A																		
5	New Project / Expansion in existing project/Modernization/ Diversification in exiting project	Expansion																		
6	If expansion/ diversification, whether environmental clearance has been obtained for existing project (If yes, enclose copy with compliance table)	Not Applicable																		
7	Activity schedule in the EIA Notification	5(f)																		
8	Area Details	Total plot area (sq. m.): 48400 Built up area (Sq. m.): 32716.67 (existing & proposed)																		
9	Name of the Notified Industrial area / MIDC area	MIDC Newasa Industrial Area Tukai- Shingve																		
10	TOR given by SEAC? (If yes then specify the meeting)	TOR issued in 115 th SEAC – I meeting held on 3.4.5 th December 2015 Item no 11.																		
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Land cost Building Plant & Equipment } 1430 Lacs																		
12	Location details of the project :	Latitude: 19°18'18.875"N Longitude: 74°51'13.364"E Location: Plot No. B10, MIDC Newasa industrial area At Post. Tukai - Shingve, Taluka. Newasa Dist. Ahmadnagar Elevation above Mean Sea Level (metres): 561																		
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No Protected Areas / Critically Polluted areas / Eco-sensitive areas in study area.																		
14	Raw materials (including Process chemicals, catalysts, & additives).	Please refer Chapter 2 of the EIA																		
15	Production details	Product details: <table border="1"> <thead> <tr> <th>Sr. No</th><th>Product Name</th><th>Capacity (TPA)</th></tr> </thead> <tbody> <tr> <td></td><td>Existing</td><td></td></tr> <tr> <td>1</td><td>Hydrogen Gas</td><td>18.72 Lacs NM³ (250 NM³/Hr)</td></tr> <tr> <td></td><td>Proposed</td><td></td></tr> <tr> <td>1</td><td>Furfuraldehyde (Fufural)</td><td>600</td></tr> <tr> <td>2</td><td>Furfuryl Alcohol</td><td>360</td></tr> </tbody> </table>	Sr. No	Product Name	Capacity (TPA)		Existing		1	Hydrogen Gas	18.72 Lacs NM ³ (250 NM ³ /Hr)		Proposed		1	Furfuraldehyde (Fufural)	600	2	Furfuryl Alcohol	360
Sr. No	Product Name	Capacity (TPA)																		
	Existing																			
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	Proposed																			
1	Furfuraldehyde (Fufural)	600																		
2	Furfuryl Alcohol	360																		

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		3	Furfuryl Amine	480																																														
		4	Cyclohexenyl Ethyl Amine (CHEA)	120																																														
		5	Triclabendazole (Crude)	100																																														
		6	5-Chloro-4-Amino-2,1,3 Benzothidiazole	24																																														
		7	2-Furoic Acid	60																																														
		8	Betaphenyl Ethyl Amine (BPEA)	240																																														
		9	Polly Allylamine Hydrochloride (PAAH)	160																																														
		10	Chlorohexanone (6-Chloro-2-Hexanone)	240																																														
		11	Furan	600																																														
			Total (proposed)	2984																																														
			By products																																															
		1	Spent acid	510																																														
		2	Sodium hydrosulphide solution	188																																														
		3	Potassium bromide salt solution	2225																																														
16	Process details / manufacturing details	Please refer Chapter 2 of the EIA																																																
17	Rain Water Harvesting (RW11)	Level of the Ground water table: -- Size and no of RWH tank(s) and Quantity: 1 no. of Storm water / rain water storage tank of 12 x 12.5 x 2 m of 302 K1. capacity Location of the RWH tank(s): Near main gate Size, nos of recharge pits and Quantity:-- Budgetary allocation (Capital cost and O&M cost):--Please refer chapter 6 of the EIA for details																																																
18	Total Water Requirement	Total water requirement: 165 (existing + proposed) Fresh water (CMD): 93 Source: MIDC Recycled water (CMD): 72 Use of the water: (existing + proposed) Industrial Process/ cooling/ boiler feed (CMD): 109 (Fresh 81 + Recycle 28) Drinking (CMD): 28 (Fresh 12 + Recycle 16) Green belt (CMD): 28 (Recycle)																																																
19	Sewage generation and treatment	Amount of sewage generation (CMD): 25 Proposed treatment for the sewage: Sewage water will be treated in combined Effluent treatment plant. Capacity of the STP (CMD) (If applicable): NA																																																
20	Effluent characteristic	<table><tr><th>Sr. No.</th><th>Parameters (pH, BOD, COD, heavy metal, etc)</th><th>Inlet effluent Characteristic (Total Process Effluent)</th><th>Outlet effluent Characte ristic</th><th>Effluent discharge standards (CPCB / MPCB)</th></tr><tr><td>1.</td><td>pH</td><td>6 - 9</td><td>6.5-9</td><td>6.5-9</td></tr><tr><td>2.</td><td>COD (mg/l)</td><td>2500 - 3000</td><td>< 250</td><td>250</td></tr><tr><td>3.</td><td>BOD (mg/l)</td><td>1000 - 1500</td><td>< 100</td><td>100</td></tr><tr><td>4.</td><td>TDS (mg/l)</td><td>1100 - 1200</td><td>< 2100</td><td>2100</td></tr><tr><td>5.</td><td>TSS (mg/l)</td><td>150 - 200</td><td>< 100</td><td>100</td></tr><tr><td>6.</td><td>O & G (mg/l)</td><td>< 10</td><td>< 10</td><td>10</td></tr><tr><td>7.</td><td>Chlorides</td><td>250 - 300</td><td><600</td><td><600</td></tr><tr><td>8.</td><td>Sulphates</td><td>250- 300</td><td><1000</td><td><1000</td></tr></table>	Sr. No.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic (Total Process Effluent)	Outlet effluent Characte ristic	Effluent discharge standards (CPCB / MPCB)	1.	pH	6 - 9	6.5-9	6.5-9	2.	COD (mg/l)	2500 - 3000	< 250	250	3.	BOD (mg/l)	1000 - 1500	< 100	100	4.	TDS (mg/l)	1100 - 1200	< 2100	2100	5.	TSS (mg/l)	150 - 200	< 100	100	6.	O & G (mg/l)	< 10	< 10	10	7.	Chlorides	250 - 300	<600	<600	8.	Sulphates	250- 300	<1000	<1000			
Sr. No.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic (Total Process Effluent)	Outlet effluent Characte ristic	Effluent discharge standards (CPCB / MPCB)																																														
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2.	COD (mg/l)	2500 - 3000	< 250	250																																														
3.	BOD (mg/l)	1000 - 1500	< 100	100																																														
4.	TDS (mg/l)	1100 - 1200	< 2100	2100																																														
5.	TSS (mg/l)	150 - 200	< 100	100																																														
6.	O & G (mg/l)	< 10	< 10	10																																														
7.	Chlorides	250 - 300	<600	<600																																														
8.	Sulphates	250- 300	<1000	<1000																																														
21	ETP Details	Amount of effluent generation (CMD): 72 Capacity of the ETP (CMD) : 75 Amount of treated effluent recycled (CMD): Total effluent generated will be treated & used for CT make up, process, and gardening. Amount of water send to the CETP (CMD):NA. No discharge to CETP. Membership of the CETP (If require): NA																																																
22	Note on ETP technology to be used	Pre-treatment tank > Oil & Grease trap > Collection tank > Neutralization tank > Pri. clarifier > Aeration tank > Sec. clarifier > Sand filter > Activated carbon filter > Treated water tank																																																
23	Disposal of the ETP sludge (If applicable)	ETP sludge will be disposed to CHWTSDF																																																
24	Solid waste Management	Hazardous Waste: <table><tr><th>Category</th><th>Hazardous waste Generation</th><th>Quantity in TPA</th><th>Disposal</th></tr><tr><td></td><td>Existing</td><td></td><td></td></tr></table>				Category	Hazardous waste Generation	Quantity in TPA	Disposal		Existing																																							
Category	Hazardous waste Generation	Quantity in TPA	Disposal																																															
	Existing																																																	

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		--	NIL	NIL	NIL	
			Proposed			
		35.3	Chemical sludge from waste water treatment	30	CHWTSDF (landfill)	
		20.3	Distillation Residue	275	CHWTSDF/ Used as Fuel in Boiler	
		20.3	Distillation Residue (chlorinated)	25	CHWTSDF	
		33.2	Contaminated filter/ Bags	2	CHWTSDF (incineration)	
		28.1	Process residue (iron sludge)	45	CHWTSDF (landfill)	
		28.2	Spent Catalyst	225	CHWTSDF/ Authorized Recycler/ Return to manufacturer	
		28.3	Spent Charcoal	40	CHWTSDF/ Used as Fuel in Boiler	
		33.1	Contaminated Drums/ Barrels/ liners	500 Nos./A	MPCB authorized Drum recycler	
		Solid Waste:				
		Sr. No.	Source	Qty (TPA)	Disposal	
		1.	Ash	1850	To brick manufacturer / land fill	
		2.	Spent corn cob	5000	Burning in boiler / TFH	
		If waste(s) contain any hazardous/toxic substance/ radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures. Hazardous waste disposal as per MPCB norms.				
		What are the possibilities of recovery and recycling of wastes : No				
		Possible users of solid waste: Spent corn cob will be used as fuel in boiler. Ash for brick making				
		Method of disposal of solid waste. :- Hazardous waste will be disposed to CHWTSDF. Non-hazardous will be used as fuel / manure				
25	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr. No.	Pollutant	Source of Emission	Concentration in flue gas	
		1	SPM	Boiler	100 mg/Nm ³	
		2		TFH	100 mg/Nm ³	
		3	SO ₂	Boiler	240 kg/day	
		4		TFH	153 kg/day	
26	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, SO ₂ , NO _x etc. should be specified	Plant Section & units	Height from Ground level (m)	Internal Diameter (Top) (m)	Temp. of Exhaust Gases	
		Existing				
		IBR Boiler	30	-	-	
		Reactor	11	-	-	
		DG set	3.5 (above roof)	-	-	
		New				
		Boiler (new)	30	0.6	180	
		TFH (new)	30	0.35	240	
		HCl Scrubber	18 *	*	Ambient	
		Ammonia scrubber	18 *	*	Ambient	
		H ₂ S scrubber	18 *	*	Ambient	
		*Height shall be finalized during detailing stage.				
27	Details of Fuel to be used:	Sr. No	Fuel	Daily Consumption	% Ash	% Sulphur
				Proposed		
		1	Coal	15 TPD (boiler)	30	0.8
		2	Furnace oil	1.7 TPD (TFH)	-	4.5
		3	HSD	64 Lit/hr (emergency use)	0.01	1
		Source of Fuel: - Coal imported/local, Furnace oil Local				
		Mode of Transportation of fuel to site: By Road				
28	Energy	Power supply: Proposed power requirement: 320 KVA DG sets: - Details of the non-conventional renewable energy proposed to be used : --				
29	Green Belt Development	Green belt area (Sq. m.): 11718.63				

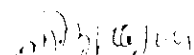
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		Number and species of trees to be planted: Suitable no. of species will be planted as per proposed green belt area. Number, size, age and species of trees to be cut, trees to be transplanted:NA				
30	Details of Pollution control system	Sr. No.	Pollution control for	Proposed to be installed		
		1	Air	Dust collector / bag filter		
		2	Water	Effluent treatment plant		
		3	Noise	Enclosure/ PPE		
		4	Solid Waste	Disposed to CHWTSDF / Recycler		
31	Environmental Management plan Budgetary Allocation	Capital cost (With break up): See below O&M cost (With break up):See below				
		Environmental Controlling Measure	Capital Investment(Rs. In Lakhs)	O&M Cost/Annum(Rs In Lakhs)		
		Air Pollution Control	20	2		
		Environment Monitoring	5	2		
		Water Pollution Control	45	5		
		Hazardous waste & Solid waste management	2	5		
		Green Belt Development	2	3		
		Occupational Health & Safety	-	2		
		Social welfare &upliftment	-	12		
		Other Green Initiatives				
		Rain Water Harvesting	10	1		
		Solar Power/LED	5	-		
		Energy Conservation	5	-		
		Total	94	34		
32	EIA Submitted (If yes then submit the salient features)	Period of data proposed to be collected: Dec 2015- Feb 2016 Details of the primary data collection (i.e. location of the sample collection, number of visit, etc): 8 locations Details of the secondary data collection (i.e. Source and year of data): Ahmednagar Municipal corporation Potential hazard and mitigation measures:- Conclusion of the EIA study: - No major impact on environment				
33	Storage of chemicals (inflammable/explosive/hazardous/toxic substances)					
	Sr. No.	Name	Number of Storages	Capacity (KL)	Physical and Chemical Composition	Max Qty of storage at any point of time (KL)
		Existing				
	1	Methanol	4	15	Liquid	15
	2	Hydrogen gas	120 Nos. of cylinders	2.49 kg/ cylinder	Gas	299 kg
		Proposed				
	1	Methanol	1	15	Liquid	15
	2	Toluene	2	15	Liquid	15
	3	Furnace oil	1	15	Liquid	
	4	Ammonia – There will be ammonia tonner at site				

PP gave a detailed presentation of their EIA report pertaining to manufacturing of APIs and Specialty Agro based Chemicals at their facility in Newasa MIDC. In addition to the existing facility for manufacturing of Hydrogen (18.72 lacs Nm³/annum) the proposed envisages 2984 TPA of such products in addition to 2923 TPA by-products. The Committee considered the EIA report and its presentation.



Member Secretary

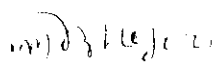


Chairman

After discussion the Committee made the following observations:

1. The process generates large quantum of Chloro compounds both in liquid effluents and solid wastes. The Committee feels that Chlorine should be totally eliminated from effluents to achieve BOD/COD ratio to 0.3-0.4. Similarly solid chloro compounds in the hazardous wastes should not sent to the CHWTSDf, since incineration can generate harmful Dioxenes and Furans. For this purpose PP should compulsorily eliminate Chloro compounds at source through Fenton/ H₂O₂ treatment so as to mineralize the mother liquor after 1st and 2nd crops. The ensuing effluent treatment scheme is depicted in *Annexure 7.1*. The MPCB should verify the provisions of pre-treatment envisaged above before granting Consent to Operate.
2. The emissions from 3 TPH boiler using coal as a fuel and 6 lac kcal/hr thermic fluid heater should be passed through bag filter of suitable efficiency to achieve an outlet TPM of less than 100 mg/Nm³. Stack height for both boiler and thermic fluid heater should not be less than 30m.
3. The Consent certificate from MIDC for total water requirement of 100 CMD is given in the *Annexure 7.2*.
4. The PP shall effect maximum solvent recovery. The spent solvents containing spent H₂SO₄ and Sodium Hydrosulphide should be disposed of to vendors authorised by MPCB and should not be indiscriminately disposed of in the environment. The aqueous salt layer containing Bromine compound should be treated for crystallization of KBr and should be sold as by-product to authorised vendors only.
5. *Annexure 7.3* indicates the diagram showing various hazard management facilities. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration i.e. District Magistrate, Ahmednagar. There should be adequate dyke containment system for Ammonia, Chlorine and CS₂ (Carbon Disulphide).

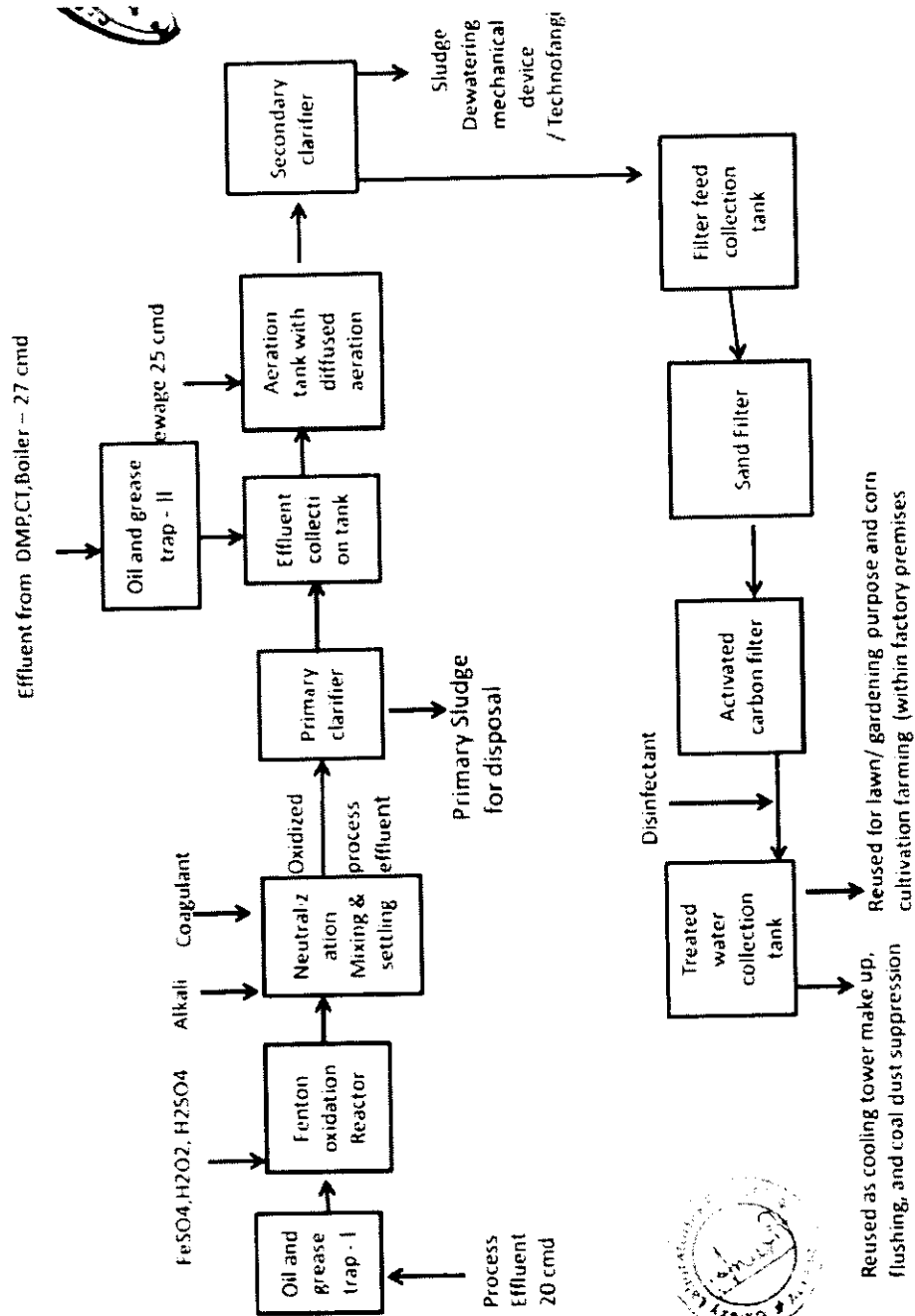
The baseline studies indicates that all aspects of environmental impact were within limit. However since the project is located in a fairly remote industrial area which does not have a CETP, the effluent management should be strictly followed by the PP. The Committee decided to **recommend the project from EC**, subject to the above conditions (1-5).


Member Secretary


Chairman

Annexure 7.1

Galaxy Laboratories Pvt Ltd Newasa – Effluent Treatment Plant Scheme



[Signature]
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Annexure 7.2

MARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION

(A Government Of Maharashtra Undertaking)

No/DE/ANR/Works *D. 10/16* /2016

Office Of the Deputy Engineer,
MIDC, Works Sub-Division,
Ahmednagar.

Date: - *22/09/2016*

To,
M/s. Galaxy Laboratories Pvt. Ltd.
Plot No B-10, MIDC Newasa Indl. Area,
Aurangabad-Pune Highway,
Dist. Ahmednagar.

Sub :- Supply of additional water for production at plot No B-10
for Galaxy Laboratories Pvt. Ltd.

Ref :- 1. This office letter No. A-93883 Dtd. 23/03/2016.
2. You letter No. GLPL/MIDC/2016-17 dated 22/09/2016.

Dear Sir,

With reference to above subject matter, it is to inform to you that MIDC is in position to supply additional 100 m3 per Day Pure water to your plot No B-10 Newasa Indl. Area Subject to following compliances.

- 1) Necessary consent from MPCB for additional water consumption shall be obtained at your level.
- 2) You have to make storage arrangement 24 hours capacity & there will be no assurance of pressure of water.
- 3) Water will be supplied as per MIDC's rule applicable at the time of sanction of additional requirement & use there off.
- 4) Application for water connection should be made on line in single window system.

Thanking you,

Yours Fairhfully,

Ganeshwar
Deputy Engineer,
MIDC, (W) Sub-Division,
Ahmednagar

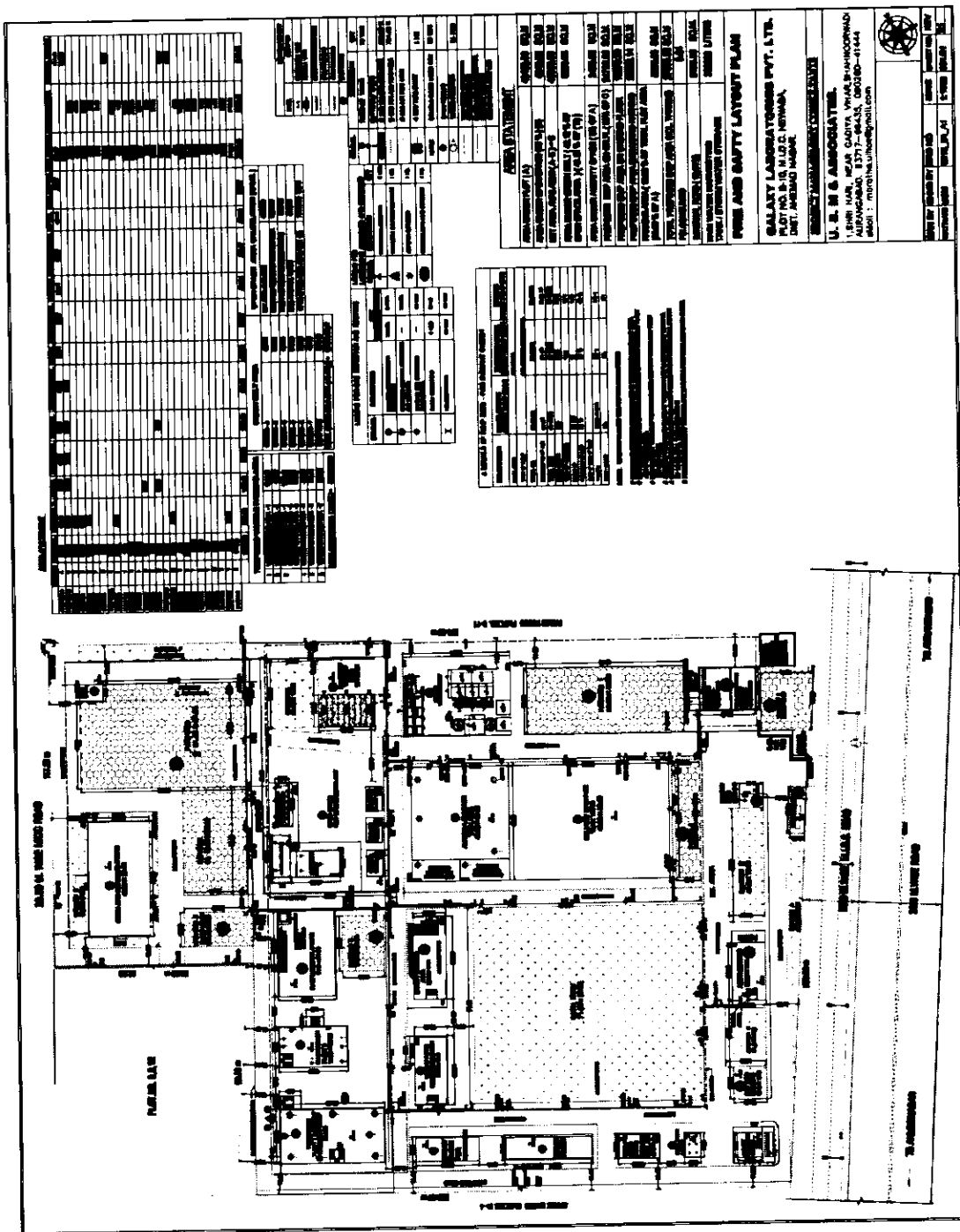
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Member Secretary

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Annexure 7.3



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Member Secretary

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Chairman

Item no. 8	M/s. Glenmark Pharmaceuticals Ltd. Expansion on plot no. B-25, 5 star MIDC Shendra Aurangabad.
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The brief information of the project as submitted by the PP:

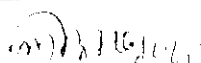
1	Name of project	Establishment of Synthetic Organic Chemical API Manufacturing facility by Glenmark Pharmaceuticals limited at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra																															
2	Name, address, e-mail & Contact number of Proponent	Name: Mr. Sanjay Choubey Glenmark Pharmaceuticals Ltd. Address: Plot No. B-25, Five star MIDC, Shendra Aurangabad-431210 Telephone number: 0240-2622036/39 Mobile number: -- Email Id: sanjaychoubey@glenmarkpharma.com																															
3	Name of consultant	Name: Aditya Environmental Service Pvt. Ltd.																															
4	Accreditation of Consultant (NABET Accreditation)	QCI NABET List for the proposed category of the project. 5 (f)-B: Synthetic Organic Chemicals Manufacturing Industries																															
5	New Project / Expansion in existing project/ Modernization/ Diversification in exiting project	Establishment of Synthetic Organic Chemical API Manufacturing Facility at existing unit																															
6	If expansion / Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	Diversification																															
7	Activity schedule in the EIA Notification	5(f)-B																															
8	Area Details	Total plot area (sq. m.): 118,955 Plint area (Sq. m.): 26,465 sq m (Existing + proposed)																															
9	Name of the Notified Industrial area / MIDC area	5 Star MIDC, Shendra, Aurangabad																															
10	TOR given by SEAC? (If yes then specify the meeting)	Yes. 101 th SEAC-I meeting dated 5 th May 2015																															
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Rs. 40 Crores																															
12	Location details of the project :	Latitude: 19° 52' 19.269" N Longitude: 75° 30' 03.383" E Location: MIDC Shendra, Dist Aurangabad Elcvation above Mean Sea Level (meters): 590																															
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	Not applicable																															
14	Raw materials (including Process chemicals, catalysts, & additives).	Please refer EIA report																															
15	Production details	<table><tr><th colspan="3">Proposed (to be manufactured) products are as follow:</th><th>Quantity (TPA)</th></tr><tr><th>No</th><th>Therapeutic use</th><th>Typical product</th><td rowspan="7">220.8</td></tr><tr><td>1</td><td>Anti Acne</td><td>Adapalene</td></tr><tr><td>2</td><td>Anti Alzheimer</td><td>Riluzole</td></tr><tr><td>3</td><td>Anti depressant</td><td>Bupropion HCl</td></tr><tr><td>4</td><td>Anti emetic</td><td>Palonosetron</td></tr><tr><td>5</td><td>Anti Erectile Dysfunction</td><td>Tadalafil</td></tr><tr><td>6</td><td>Anti Fungal</td><td>Fluconazole, Voriconazole</td></tr><tr><td>7</td><td>Anti Histaminic</td><td>Desloratadine, Levocetrizene</td></tr></table>			Proposed (to be manufactured) products are as follow:			Quantity (TPA)	No	Therapeutic use	Typical product	220.8	1	Anti Acne	Adapalene	2	Anti Alzheimer	Riluzole	3	Anti depressant	Bupropion HCl	4	Anti emetic	Palonosetron	5	Anti Erectile Dysfunction	Tadalafil	6	Anti Fungal	Fluconazole, Voriconazole	7	Anti Histaminic	Desloratadine, Levocetrizene
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6	Anti Fungal	Fluconazole, Voriconazole																															
7	Anti Histaminic	Desloratadine, Levocetrizene																															

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Chairman

		8	Anti Hyperlipidemia	Rosuvastatin Calcium																																				
		9	Anti hypertensive	Cilazapril, Olmesartan Medoxomil, Perindopril Erbuminem, Telmisartan																																				
		10	Antibiotic	Lincolid																																				
		11	Anticonvulsant	Zonisamide, Oxcarbazepine																																				
		12	Antidiabetic	Sitagliptin, Tenegliptin																																				
		13	Antirheumatics	Etoricoxib																																				
		14	Antiulcer	Esomeprazole Magnesium Dihydrate																																				
		15	Hypnotic, Sedative	Zolpidem Tartrate																																				
		16	Platelet Aggregation Inhibitor	Cilostazol																																				
		17	Psoriasis	Dimethyl Fumarate																																				
		18	To treat Osteoporosis	Strontium Ranelate																																				
16	Process details / manufacturing details	As per EIA report submitted chapter 2																																						
17	Rain Water Harvesting (RWH)	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 Quantity of Rain Water Harvested: 40 cmd (During wet season of 122 days only) Budgetary allocation (Capital cost and O&M cost): 20 Lacs																																						
18	Total Water Requirement	Total water requirement: 618 (EXISTING + PROPOSED) Fresh water (CMD): 340 Source: MIDC Shendra Aurangabad Recycle water (CMD)- 278 Break up as follows: (EXISTING + PROPOSED) Process/cooling/Boiler (CMD): 528 (Fresh-305 + Recycle- 223) Domestic (CMD): 45 (Fresh-35, Recycle- 10) Green belt (CMD): 45 (Recycle- 45)																																						
19	Sewage generation and treatment	Amount of sewage generation (CMD): 40 (existing + proposed) Proposed treatment for the sewage: Sewage water partially treat in STP & then sent to ETP for final treatment. Capacity of the STP (CMD) (If applicable): 40 CMD																																						
20	Effluent characteristic	<table><tr><th>Sr. No.</th><th>Parameters</th><th>Inlet effluent Characteristic</th><th>Expected outlet effluent Characteristic</th><th>Effluent discharge standards</th></tr><tr><td>1</td><td>pH</td><td>3 - 9</td><td>6.5-8.5</td><td>6.5-8.5</td></tr><tr><td>2</td><td>TSS (mg/l)</td><td>1600</td><td>< 100</td><td>100</td></tr><tr><td>3</td><td>TDS (mg/l)</td><td>6000</td><td><2100</td><td>2100</td></tr><tr><td>4</td><td>C.O.D. (mg/l)</td><td>30,000</td><td>< 250</td><td>250</td></tr><tr><td>5</td><td>B.O.D. (mg/l)</td><td>12,000</td><td>< 30</td><td>30</td></tr><tr><td>6</td><td>Oil & Grease (mg/l)</td><td>100</td><td><10</td><td><10</td></tr></table>				Sr. No.	Parameters	Inlet effluent Characteristic	Expected outlet effluent Characteristic	Effluent discharge standards	1	pH	3 - 9	6.5-8.5	6.5-8.5	2	TSS (mg/l)	1600	< 100	100	3	TDS (mg/l)	6000	<2100	2100	4	C.O.D. (mg/l)	30,000	< 250	250	5	B.O.D. (mg/l)	12,000	< 30	30	6	Oil & Grease (mg/l)	100	<10	<10
Sr. No.	Parameters	Inlet effluent Characteristic	Expected outlet effluent Characteristic	Effluent discharge standards																																				
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5	B.O.D. (mg/l)	12,000	< 30	30																																				
6	Oil & Grease (mg/l)	100	<10	<10																																				
21	ETP Details	Amount of effluent generation (CMD): 278 Capacity of the ETP (CMD): 150 + 150 = 300 Amount of water to be send to the CETP (CMD): NIL. Entire facility will maintain Zero Liquid Discharge. Membership of the CETP (If require): If yes then attach the letter: Not applicable (ZLD unit)																																						
22	Note on ETP technology to be used	Refer EIA report for details																																						
23	Disposal of the ETP sludge (If applicable)	CHWTSDF, Ranjangaon																																						
24	Solid waste Management	Solid Waste Generation (proposed) <table><tr><th>No</th><th>Type of Waste</th><th>Category</th><th>Proposed</th><th>Disposal mode</th></tr><tr><td></td><td colspan="4">Non Hazardous</td></tr><tr><td>1</td><td>Cartoon boxes and paper scrap</td><td>--</td><td>3.5 T/A</td><td>Salc to authorized recycler</td></tr></table>				No	Type of Waste	Category	Proposed	Disposal mode		Non Hazardous				1	Cartoon boxes and paper scrap	--	3.5 T/A	Salc to authorized recycler																				
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Member Secretary


Chairman

		2	Fiber drum	--	10000 Nos./A	
		3	Aluminum foil	--	500000 No/A	
		4	Poly bags scrap	--	3.5 T/A	
		5	Aluminum serap	--	3.5 T/A	
		6	Paper scrap	--	3.2 T/A	
		7	Metal serap	--	2.5 T/A	
		8	Wooden scrap	--	6 T/A	
		Hazardous waste				
		1	Used Oil	5.1	4.0 T/A	Sale to MoEF /MPCB approved recyclers
		2	Spent mother liquor	28.4	--	CHWTSDF
		3	Discarded barrels, containers, liners	33.3	33000 No/A	Sale to authorized recycler/CHWTSDF
		4	Chemical sludge from waste water treatment	34.3	3000 T/A	CHWTSDF
		5	Filter and filter material which have organic liquid	35.1	84 T/A	CHWTSDF
		6	Residue and wastes	28.1	65 T/A	CHWTSDF
		7	Plastic drums, MS Drums, Gunny bags	33.3	-	Sale to authorized recycler
		8	Waste /oil soaked cotton	5.2	1.5 T/A	Sale to registered reprocessor
		9	Spent catalyst + Charcoal	28.2	35 T/A	CHWTSDF
		10	Distillation residue	28.2	98 T/A	CHWTSDF
		11	Off spec products	28.3	3 T/A	CHWTSDF
		12	Date expired discarded and off specification drugs / products/ RMs	28.4	12 T/A	CHWTSDF
		13	Spent Solvent	28.5	15960 T/A	Distillation and sale to authorized vendors
		14	Flue gas cleaning residue	34.1	2 T/A	Sale to authorized vendors
		15	Resin from DM Plants	34.2	1 T/A	Sale to registered reprocessor
		16	Used batteries from UPS etc	NA	100 No/A	Return to supplier / manufacturer
		17	Insulation waste	NA	1.5 T/A	CHWTSDF
		If waste(s) contain any hazardous/toxic substance/ radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures: PPEs will be provided, separate segregated storage will be provided What are the possibilities of recovery and recycling of wastes? As given above Possible users of solid waste as given above Method of disposal of solid waste as given above				
25	Atmospherie Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)	Two new Boilers each of 5 TPH steam and 2 emergency DG sets (1000 KVA each) are proposed to be installed.				
		Emission source	1	2	3	4
		from	Boiler1	Boiler2	Boiler3	Boiler4
		Existing/New	Existing	Existing	New	New
		Fuel type	FO	FO	FO	FO
		Emission details				
		SPM	<150 mg/nm3	<150 mg/nm3	<150 mg/nm3	<150 mg/nm3
		SO2	54 kg/day		772 kg/day	772 kg/day
		NOx	--	--	31 kg/day	31 kg/day
		Emission level from proposed 2 DG sets (1000 KVA capacity each)– 2 x 96 = 192 kg/day (Emergency use only)				

Member Secretary

Chairman

		TPM < 150 mg/NM3 Existing 2 DG sets of 725 KVA each				
26	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, SO ₂ , NO _x etc. should be specified	Existing and proposed stack details				
		Stack number(s)	1	2	3	4
		Attached to	Boiler1	Boiler2	Boiler3	Boiler4
			Existing	Existing	New	New
		Capacity (MT/hr)(steam)	1	2	5	5
		Fuel type	FO	FO	FO	FO
		Fuel quantity	1.5 T/day		8.568 T/day	8.568 T/day
		Material of construction	MS	MS	MS	MS
		Shape (round/rectangular)	Round	Round	Round	Round
		Height, m (above ground level)	33	33	40	40
		Diameter/size, in meters	0.30	0.30	0.5	0.5
		Flue Gas quantity, Nm ³ /hr	1711	--	5070	5070
		Gas temperature deg C	83	--	270	270
		Exit gas velocity, m/sec.	8.1	--	14.26	14.26
		PM (mg/nm3)	<150	--	<150	<150
		NO _x	0.21 mg/nm3	--	0.354 gm/sec	0.354 gm/sec
		Existing Process stack (wet scrubber) – 5 m stack, particulate matter <150 mg/nm ³				
27	Details of Fuel to be used:	Proposed fuel consumption:				
		Sr. No.	Type of Fuel	Quantity	UOM	
		1	FO (for Boilers)	2 x 8.568 = 17.136	TPD	
		2	HSD (for 2 DG sets, 1000 KVA each)	400 lit/hr max (Emergency requirement only)	KLPD	
28	Energy	Power supply: Proposed power requirement: 2000 KVA DG sets: Number and capacity DG sets to be used (existing and proposed) – Existing – 1 x 725 KVA. (for power backup only) Proposed – 2 x 1000 KVA each (for power backup only) Details of the non-conventional renewable energy proposed to be used: Rain water harvesting, solar power, LED lights				
29	Green Belt Development	Green belt area (Sq. m.): 25.615				
30	Details of Pollution control system	Sr. No.	Sources	Existing pollution control system	Proposed to be installed	
		1	Air	Stack	Stack	
		2	Water	ETP,	Up gradation of existing ETP	
		3	Noise	Aeoustic enclose, Silencer.	Acoustic enclosure, Silencer.	
		4	Solid Waste	Waste management system	Waste management system	

31	Environmental Management plan Budgetary Allocation	<div>Capital cost (With break up):</div> <div>O&M cost (With break up):</div> <table><tr><th>Environmental Controlling Measure</th><th>Capital Investment (Rs. In Lakhs)</th><th>O&M Cost/Annum (Rs. In Lakhs)</th></tr><tr><td>Water Pollution Control</td><td>600</td><td>85</td></tr><tr><td>Air Pollution Control</td><td>25</td><td>2</td></tr><tr><td>Environment Monitoring/management</td><td>5</td><td>5</td></tr><tr><td>Occupational Health & Safety</td><td>10</td><td>5</td></tr><tr><td>Green Belt Development</td><td>15</td><td>8</td></tr><tr><td>Hazardous waste & Solid waste management</td><td>15</td><td>50</td></tr><tr><td>Other Green initiatives</td><td></td><td></td></tr><tr><td>Rain water harvesting</td><td>15</td><td>5</td></tr><tr><td>Solar power / LED</td><td>30</td><td>5</td></tr><tr><td>Energy conservation</td><td>10</td><td>5</td></tr><tr><td>Total</td><td>725</td><td>170</td></tr></table>	Environmental Controlling Measure	Capital Investment (Rs. In Lakhs)	O&M Cost/Annum (Rs. In Lakhs)	Water Pollution Control	600	85	Air Pollution Control	25	2	Environment Monitoring/management	5	5	Occupational Health & Safety	10	5	Green Belt Development	15	8	Hazardous waste & Solid waste management	15	50	Other Green initiatives			Rain water harvesting	15	5	Solar power / LED	30	5	Energy conservation	10	5	Total	725	170																																													
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32	EIA Submitted (If yes then submit the salient features)	<div>Period of data collected: Summer 2015</div> <div>Details of the primary data collection (i.e. location of the sample collection, number of visit, etc): AAQ at 7 locations</div> <div>Details of the secondary data collection (i.e. Source and year of data):</div> <div>Potential hazard and mitigation measures : Odors due VOC handling, Mitigation measures given in chapter 4</div> <div>Conclusion of the EIA study: impacts due to proposed project will be within manageable limits</div>																																																																																	
33	Storage of chemicals (inflammable /explosive/hazardous/toxic substances)																																																																																		
	<table><tr><th>Sr. No.</th><th>Name</th><th>Number of Storages</th><th>Capacity (KL) of each tank</th><th>Physical state and Chemical Composition</th><th>Maximum Quantity of storage at any point of time (KL)(each tank)</th></tr><tr><td colspan="6">Existing tanks</td></tr><tr><td>1</td><td>Acetone</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>2</td><td>n-butanol</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>3</td><td>Furnace Oil</td><td>1</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>4</td><td>Diesel</td><td>1</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td colspan="6">Proposed tanks</td></tr><tr><td>1</td><td>Methanol</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>2</td><td>Toluene</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>3</td><td>EDC</td><td>1</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>4</td><td>Ethyl acetate</td><td>1</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>5</td><td>MDC</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr><tr><td>6</td><td>IPA</td><td>2</td><td>20</td><td>Liquid, 100 %</td><td>20</td></tr></table>					Sr. No.	Name	Number of Storages	Capacity (KL) of each tank	Physical state and Chemical Composition	Maximum Quantity of storage at any point of time (KL)(each tank)	Existing tanks						1	Acetone	2	20	Liquid, 100 %	20	2	n-butanol	2	20	Liquid, 100 %	20	3	Furnace Oil	1	20	Liquid, 100 %	20	4	Diesel	1	20	Liquid, 100 %	20	Proposed tanks						1	Methanol	2	20	Liquid, 100 %	20	2	Toluene	2	20	Liquid, 100 %	20	3	EDC	1	20	Liquid, 100 %	20	4	Ethyl acetate	1	20	Liquid, 100 %	20	5	MDC	2	20	Liquid, 100 %	20	6	IPA	2	20	Liquid, 100 %	20
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	Note: refer EIA report tables for consumption and source of supply, means of transportation for all above chemicals is Road.																																																																																		

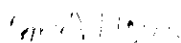
The PP gave a detailed presentation of their EIA report to manufacture therapeutic category APIs in their existing plant premises at 5 star MIDC, Shendra, Aurangabad to the extent of 18.4 TPM. The Committee considered the project under category 5(f)-B1 of the schedule of the EIA Notification 2006.

The PP claimed that presently they were not manufacturing any synthetic organic chemicals but only converting a biological plant source – latex extracted from the South American plant, “Cotton Lachari” to a therapeutic grade product, “Crofelmar”.

After detailed discussion the Committee made 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 effluent management envisages segregation of effluents into high COD/BOD and low COD/BOD streams. Former will be subjected to RO and MEE and latter to a conventional effluent treatment process. The Committee was insistent that the Bromine/ Br products should not be allowed to enter the effluent stream. The effluent management will ensure that Bromine /Bromine compounds are segregated/recovered as NaBr so that they will not enter in effluent stream in any way.
3. The PP promised to submit an action plan to achieve this. The Committee noted that the project would run as a Zero Liquid Discharge Process.
4. The Committee went through the water balance and found that nearly 360 CMD water was additionally to be sourced from MIDC. The Committee was concerned about scarcity of water in the area, and therefore suggested that the entire water which could be recycled, amounting to 283 CMD should be used for gardening (50CMD) and cooling (233 CMD), thereby saving 90 CMD of MIDC water. The PP should restrict consumption of water to 340 CMD during dry and 285 CMD in wet season thereby effecting substantial saving of water drawn by MIDC.
5. The PP intends to use FO as fuel in the boilers. The PP should achieve a TPM of less than 100 mg/Nm³ at the stack end.
6. The Risk Assessment and Risk Management studies show that there is a possibility of off-site emergency. Possibility of EDC/MDC leakages shall be considered and adequate detectors may be installed. A diagram showing various hazard management facilities is enclosed as **Annexure 8.1**.
7. The Committee is concerned about the solvent recovery. A table showing aspects of solvent recovery with details of vendors who will be procuring spent solvents from PP and mode of disposal by the vendors is enclosed as **Annexure 8.2**.
8. The PP shall ensure that THF will not be used in the process but shall be replaced by alternate solvent (DMF/Toluene) for manufacturing of Etoricoxib. However the Committee desired that notwithstanding this the PP shall undertake R&D to replace THF with Methylated THF and seek necessary clearances.

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

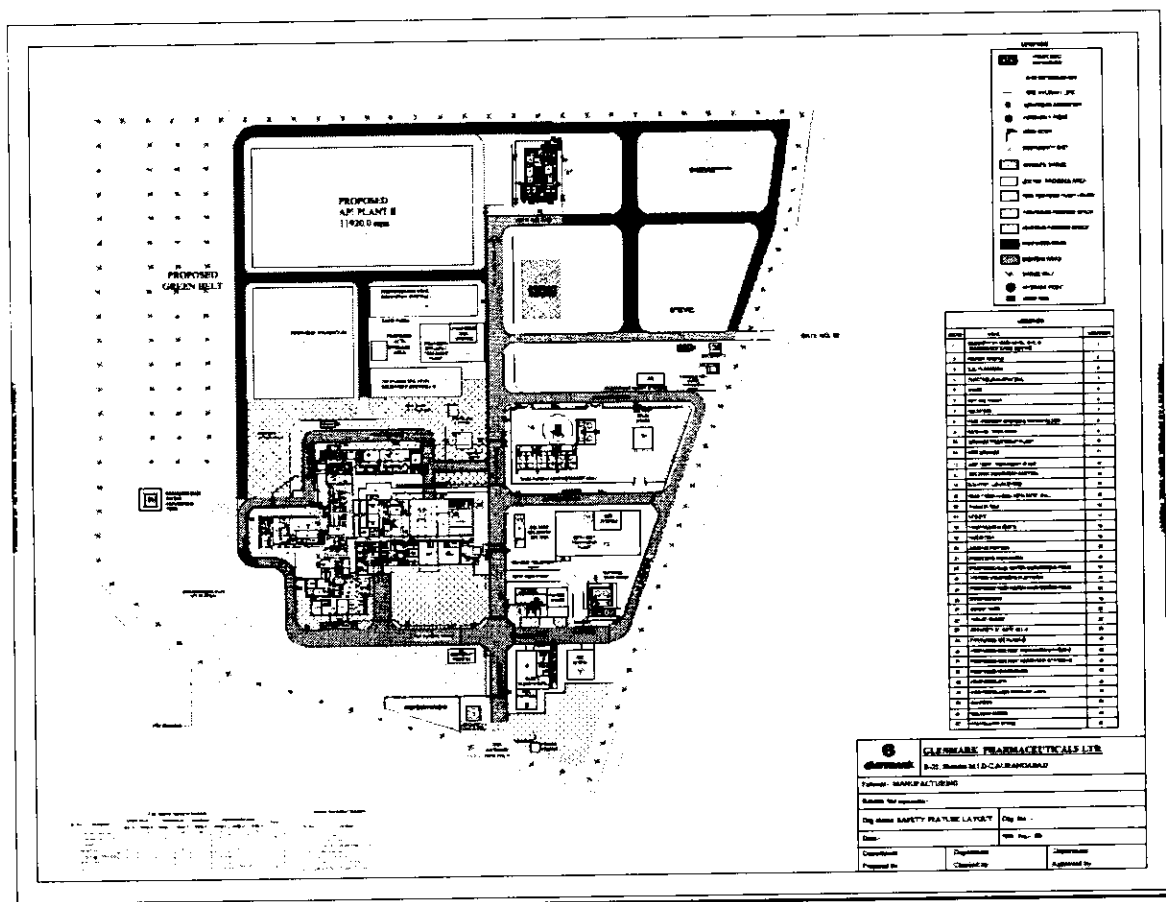


Member Secretary



Chairman

"Annexure 8.1"



"Annexure 8.2"

Sr No.	Solvent	Input Qty TPM	Type of recovery	% solvent in the input	% recovery	% intercut	% residue	Rec. Qty TPM	Intercut Qty TPM	Residue qty TPM	Water Effluent TTPM	Mode of Disposal
1	Acetone	73.3	DC, FC	84	91.0	6	1.5	56.0	3.7	0.9	11.7	Effluent to High COD
2	Methanol	72.9	DC, FC	90	93.0	5	1	61.0	3.3	0.7	7.3	Effluent to High COD
3	MDC	110.6	FC	82	72.0	24	1.5	65.3	21.8	1.4	19.9	Residue CHW TSDF/ Co-processing, Effluent to high COD
4	Toluene	23.6	DC, FC	85	92.0	6	1.5	18.5	1.2	0.3	3.5	Residue CHW TSDF/ Co-processing, Effluent to high COD
5	IPA	22.2	DC, FC	92	74.0	22	1.5	15.1	4.5	0.3	1.8	Residue CHW TSDF/ Co-processing, Effluent to high COD

6	Ethyl Acetate	24.7	DC	65	80.0	17	2	12.8	2.7	0.3	8.6	Residue CHW TSDF/ Co-processing, Effluent to high COD
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Item no. 9	M/s. Dombivli Better Environment System Association Proposed expansion of CETP from 16 MLD to 26 MLD effluent and additional 4 MLD sewage at plot no- OS 8/3/PT, P-86/1, P-86/2, P-86/3 & x10 AM13 by DBESA, Dombivili, Thane.
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The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	Proposed upgradation and expansion of existing CETP from 16 MLD to 26 MLD Effluent and Additional 4 MLD Sewage at Plot No. OS- 8/3/PT, P-86/1, P-86/2, P-86/3 & x10 AM-13																																																												
2	Name, address, e-mail & Contact and number of Proponent	Mr. Shankar Anant Kulkarni Dombivili Better Environment System Association, No. OS-8, MIDC, Phase 1, Opp. Savitribai Phule, Kala Mandir, Dombivli (East) Telephone Number - 0251-2425984																																																												
3	Name of Consultant	Name: ABC Techno Labs India Pvt Ltd																																																												
4	Accreditation of Consultant (NABET Accreditation)	ABC Techno Labs India Pvt. Ltd. has been accredited by NABET vide certificate no. NABET /EIA/ 1316/RA001 valid upto November 2016.																																																												
5	New Project / Expansion in existing project/ Modernization/ Diversification in exiting project	Proposed upgradation and expansion to a capacity of 26 MLD (Trade effluent) plus 4 MLD of additional sewage from MIDC in totality																																																												
6	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	No																																																												
7	Activity schedule in the EIA Notification	7 (h) Common Effluent Treatment Plants (CETPs)																																																												
8	Area Details	<table><tr><th>S. No.</th><th>Particulars</th><th>Existing land area (Sqm)</th><th>Proposed Land Area for Expansion (Sq.m)</th><th>Total Area (Sqm)</th><th>% of Total Area</th></tr><tr><td>1</td><td>Process Area</td><td>8846.82</td><td>4391.79</td><td>13238.61</td><td>29.41</td></tr><tr><td>2</td><td>Ancillary / supporting buildings</td><td>376.37</td><td>-</td><td>376.37</td><td>0.83</td></tr><tr><td>3</td><td>Storage Area</td><td>106.14</td><td>-</td><td>106.14</td><td>0.23</td></tr><tr><td>4</td><td>Internal Roads Area</td><td>948</td><td>-</td><td>948</td><td>2.1</td></tr><tr><td>5</td><td>Parking Area</td><td>525</td><td>-</td><td>525</td><td>1.16</td></tr><tr><td>6</td><td>Green belt</td><td>16717</td><td>-</td><td>16717</td><td>37.14</td></tr><tr><td>7</td><td>Nallah</td><td>2761</td><td>-</td><td>2761</td><td>6.13</td></tr><tr><td>8</td><td>Open space</td><td>7719.67</td><td>2608.21</td><td>10327.88</td><td>22.95</td></tr><tr><td colspan="2">Total</td><td>38000</td><td>7000</td><td>45000</td><td>100</td></tr></table>	S. No.	Particulars	Existing land area (Sqm)	Proposed Land Area for Expansion (Sq.m)	Total Area (Sqm)	% of Total Area	1	Process Area	8846.82	4391.79	13238.61	29.41	2	Ancillary / supporting buildings	376.37	-	376.37	0.83	3	Storage Area	106.14	-	106.14	0.23	4	Internal Roads Area	948	-	948	2.1	5	Parking Area	525	-	525	1.16	6	Green belt	16717	-	16717	37.14	7	Nallah	2761	-	2761	6.13	8	Open space	7719.67	2608.21	10327.88	22.95	Total		38000	7000	45000	100
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6	Green belt	16717	-	16717	37.14																																																									
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(Signature)

Member Secretary

(Signature)
Chairman

9	Name of the Notified Industrial area/MIDC area	Dombivli MIDC																													
10	TOR given by SEAC?(If yes then specify the meeting)	ToR was granted by SEAC I Committee in the 108 th meeting held on 13 th and 14 th August.																													
11	Estimated capital cost of the Project(including cost for land, building, plant and machinery separately)	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Amount in Lacs (Rs.).</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Land & Building</td> <td>1823</td> </tr> <tr> <td>2</td> <td>Plant & Machinery</td> <td>403</td> </tr> <tr> <td>3</td> <td>Piping + Electrical + Instrumentations + Painting + Erection & Commissioning</td> <td>202</td> </tr> <tr> <td>4</td> <td>Other Assets</td> <td>225</td> </tr> <tr> <td></td> <td>TOTAL</td> <td>2653</td> </tr> </tbody> </table>					Sr. No.	Description	Amount in Lacs (Rs.).	1	Land & Building	1823	2	Plant & Machinery	403	3	Piping + Electrical + Instrumentations + Painting + Erection & Commissioning	202	4	Other Assets	225		TOTAL	2653							
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3	Piping + Electrical + Instrumentations + Painting + Erection & Commissioning	202																													
4	Other Assets	225																													
	TOTAL	2653																													
12	Location details of the project:	Latitude : 19°13'3.88" N Longitude: 73°6'21.13" E Location: No. OS-8, MIDC, Phase 1, Opp. Savitribai Phule Kala Mandir, Dombivli East Elevation above mean sea level (meters) - 8 m amsl																													
13	Distance from Protected Areas/Critically Polluted areas/ Eco-sensitive areas /inter-State boundaries	Not within 5 km																													
14	Raw materials (including process chemicals, catalysts & additives).	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of Chemical</th> <th>Type of Usage</th> <th>Usage Per Day</th> <th>Storage (Tankers /Drums Etc)</th> <th>Storage Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Poly Aluminium Chloride (Industry byproduct)</td> <td>Coagulant in Primary treatment process</td> <td>20000 kg/day</td> <td>Tanks (FRP coated)</td> <td>80 Tons</td> </tr> </tbody> </table>					Sr. No.	Name of Chemical	Type of Usage	Usage Per Day	Storage (Tankers /Drums Etc)	Storage Quantity	1	Poly Aluminium Chloride (Industry byproduct)	Coagulant in Primary treatment process	20000 kg/day	Tanks (FRP coated)	80 Tons													
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15	Production details	Not applicable																													
16	Process detail/manufacturing details	CETP process details as attached annexure																													
17	Rain Water Harvesting(RWH)	Suitable RWH will be developed for office building structure																													
18	Total Water Requirement	<table border="1"> <thead> <tr> <th>S. No</th> <th>Purpose</th> <th>Existing Water Consumption (KLD)</th> <th>Proposed water consumption (KLD)</th> <th>Total water consumption (KLD)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Domestic purpose</td> <td>5</td> <td>5</td> <td>10</td> </tr> <tr> <td>2</td> <td>Process</td> <td>10</td> <td>10</td> <td>20</td> </tr> <tr> <td>3</td> <td>Gardening</td> <td>35</td> <td>10</td> <td>45</td> </tr> <tr> <td></td> <td>TOTAL</td> <td>50</td> <td>25</td> <td>75</td> </tr> </tbody> </table>					S. No	Purpose	Existing Water Consumption (KLD)	Proposed water consumption (KLD)	Total water consumption (KLD)	1	Domestic purpose	5	5	10	2	Process	10	10	20	3	Gardening	35	10	45		TOTAL	50	25	75
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3	Gardening	35	10	45																											
	TOTAL	50	25	75																											
19	Storm water drainage	Currently the storm water has a natural flow through the nalla on both east & west side of the project.																													
20	Sewage generation and treatment	4 MLD sewage received from Dombivli MIDC will be treated along with 26 MLD effluent in the CETP.																													
21	Effluent characteristic	<table border="1"> <thead> <tr> <th>Parameter</th> <th>Inlet mg/L.(except pH)</th> <th>Outlet mg/L.(except pH)</th> <th>MPCB Norms</th> </tr> </thead> <tbody> <tr> <td>COD</td> <td>2500</td> <td>200 to 250</td> <td>250</td> </tr> <tr> <td>BOD</td> <td>1000</td> <td><100</td> <td>100</td> </tr> </tbody> </table>				Parameter	Inlet mg/L.(except pH)	Outlet mg/L.(except pH)	MPCB Norms	COD	2500	200 to 250	250	BOD	1000	<100	100														
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(Signature)
Member Secretary

(Signature)
Chairman

		<table><tr><td>TSS</td><td>900</td><td><100</td><td>100</td></tr><tr><td>pH</td><td>6 to 9</td><td>6-8</td><td>6-8</td></tr></table>	TSS	900	<100	100	pH	6 to 9	6-8	6-8												
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pH	6 to 9	6-8	6-8																			
22	ETP details	<ul style="list-style-type: none">Amount of effluent Received : 26 MLD (Effluent) + 4 MLD (Sewage)Capacity of CETP(CMD): 30 MLDAmount of treated effluent recycled : - NAAmount of water send to CETP: -NAMembership of the CETP(if require) :NA																				
23	Note on ETP technology to be used	ETP technology is given as attached annexure																				
24	Disposal of the ETP sludge (If applicable)	60 MT/Day (existing + proposed) CETP sludge will be generated and it will be disposed at MPCB authorized CHWTSDF, Taloja																				
25	Solid waste Management	Municipal solid waste generation will be negligible which will be disposed through local body																				
26	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	<table><tr><th>S.No.</th><th>Pollutant</th><th>Source of emission</th><th>Emission rate(kg/hr)</th><th>Concentration mg /Nm³</th></tr><tr><td>1</td><td>PM</td><td>DG sets (4 X500 kVA)</td><td>0.02 for each DG</td><td>35</td></tr><tr><td>2</td><td>SO₂</td><td>DG sets (4 X500 kVA)</td><td>0.06 for each DG</td><td>10</td></tr><tr><td>3</td><td>NO_x</td><td>DG sets (4 X500 kVA)</td><td>0.9 for each DG</td><td>150</td></tr></table>	S.No.	Pollutant	Source of emission	Emission rate(kg/hr)	Concentration mg /Nm ³	1	PM	DG sets (4 X500 kVA)	0.02 for each DG	35	2	SO ₂	DG sets (4 X500 kVA)	0.06 for each DG	10	3	NO _x	DG sets (4 X500 kVA)	0.9 for each DG	150
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27	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, SO ₂ , NO _x) etc. should be specified	<table><tr><th>Plant section & units</th><th>Stack. No</th><th>Height from ground level(m)</th><th>Emission rate</th><th>Temp of exhaust gases.</th></tr><tr><td>DG sets (4 X 500 kVA)</td><td>1 to 4</td><td>3.5m(above roof level)each</td><td>0.02 kg/hr</td><td>125°C</td></tr></table>	Plant section & units	Stack. No	Height from ground level(m)	Emission rate	Temp of exhaust gases.	DG sets (4 X 500 kVA)	1 to 4	3.5m(above roof level)each	0.02 kg/hr	125°C										
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DG sets (4 X 500 kVA)	1 to 4	3.5m(above roof level)each	0.02 kg/hr	125°C																		
8	Details of Fuel to be used:	80 lit/hr of HSD for each 4 nos.DG set of 500 kVA considering 80% load will be required. DG sets will be operational in case of power failure																				
29	Energy	Power supply: Existing power requirement -1099 kVA Proposed power requirement :1200 kVA Source : MSEDCL, Maharashtra State Electricity Distribution Co. Ltd DG sets: DG -set : 4 No of 500 KVA Details on non- conventional renewable energy proposed to be used -No																				
30	Green Belt Development	Green belt area (sq.m):16717m ² Number , size, age and species of trees to be cut , trees to be transplanted : Their will not be any tree cutting as proposed expansion will be carried out on vacant plant																				
31	Details of Pollution Control Systems:	<table><tr><th>S.No</th><th></th><th>Proposed to be installed</th></tr><tr><td>1</td><td>Air</td><td>3.5 m ARI stack height provided for each DG set of 500 kVA capacity</td></tr><tr><td>2</td><td>Water</td><td>CETP of 30MLD capacity (26 MLD effluent & additionally 4 MLD sewage)</td></tr><tr><td>3</td><td>Noise</td><td>Green belt development, acoustic enclosures for DG sets</td></tr><tr><td>4</td><td>Solid waste</td><td>60 MT/Day ETP sludge will be generated and it will be disposed at MPCB authorized CHWTSDF, Taloja</td></tr></table>	S.No		Proposed to be installed	1	Air	3.5 m ARI stack height provided for each DG set of 500 kVA capacity	2	Water	CETP of 30MLD capacity (26 MLD effluent & additionally 4 MLD sewage)	3	Noise	Green belt development, acoustic enclosures for DG sets	4	Solid waste	60 MT/Day ETP sludge will be generated and it will be disposed at MPCB authorized CHWTSDF, Taloja					
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4	Solid waste	60 MT/Day ETP sludge will be generated and it will be disposed at MPCB authorized CHWTSDF, Taloja																				
32	Environmental Management plan Budgetary Allocation	Capital cost (With breakup) : Rs.30 Lakhs O & M Cost (With break up): Rs. 15 Lakhs																				

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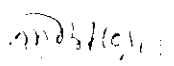
			Sr.No.	Recurring Cost per annum (Lakhs)	Capital Cost (Lakhs)	Operational Cost in lakhs/annum		
			1	Air Pollution Control	5	2		
			2	Water Pollution Control	10	3		
			3	Environment Monitoring And Management	-	3		
			4	Occupational Health	-	2.5		
			5	Green Belt	5	1		
			6	Solid waste management	5	2.5		
			7	Noise Pollution	5	1		
			Total		30	15		
33	EIA submitted then submit the salient features:	Period of data collected :Oct 2016 to Dec 2016						
34	Storage of chemicals (inflammable/explosive/hazardous/toxic substances)							
	S.No	Name	Number of storage	Cap. (TPD)	Physical and chemical composition	Max quantity of storage at any point of the time	Source of Supply	Means of transportation
	1	Poly Aluminium Chloride (Industry byproduct)	Tanks (FRP coated)	20 TPD	Physical State : Clear to yellow liquid, M.P. -12 °C, B.P. > 100 °C Specific gravity – 1.36 to 1.38, Chemical Formula : Al _n (OH) _m Cl _{3n-m}	80 TONS	Sudarshan Chemicals , IOCL	By road

The project was considered under 7 (h) – B1 category of the Schedule of the EIA Notification, 2006. The PP gave a detailed presentation about their proposal of augmentation of existing CETP from 16 MLD to 30 MLD which will also cater to a sewage load of 4 MLD.

The CETP has 130 members mostly manufacturing textile and related items. The PP had surveyed the detailed characteristics of effluents for 74 industries out of which 43 were closed and 10 were of green category.

After detailed discussion the Committee made following observations:

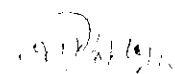
1. The commissioning of the project should be in conjunction with completion of pipelines that would take treated effluent of CETP to discharge point in the creek, as proposed by the National Institute of Oceanography.
2. An emergency storage tank shall be included in the CETP design to address shock loading.


Member Secretary


Chairman

3. The Committee noted that in the effluents of some industries there was traces of Chromium (Cr) which warrants Chromium reduction and Chromium removal. For this purpose the PP should do treatability studies for Chromium neutralization (attached as **Annexure 9.1**) at the cost of relevant industries and get the systems installed in such industries before commissioning of the project. This should be verified by the MPCB before granting Consent to Operate the CETP.

The Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The Committee therefore decided to **recommend** the project for **EC** subject to the observations (1-3) above.


Member Secretary


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"Annexure 9.1"

TREATMENT FOR REMOVAL OF CHROMIUM FROM WASTE WATER

Introduction

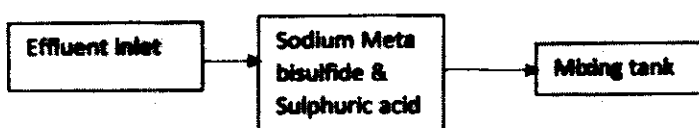
In the textile industry it is observed that in some industry chromium is detected up to 2 ppm. For that chromium removal system is suggested to specified industry. Chromium is available in two form in waste water as Chromium (III) and Chromium (VI). There is two-step process is specified for chromium (VI) removal. This process is performed in two step. One is reduction of chromium (VI) into Chromium (III) and after that it will be precipitate by using precipitating agent. If in water only chromium (III) is there then it can be precipitate directly at PH 7 to 8.5.

Option-1

Process description

- **Step-1: Process for reduction of chromium (VI) to Chromium (III)**

In this process we will select the sodium meta bi-sulphite for reduction of chromium(VI) to chromium (III). PH will be decrease by sulphuric acid. In effluent water we will add Sodium Metabisulphite (Dosing rate will be set after the Jar test). Sodium Metabisulphite has capability of reduction of chromium (VI) to Chromium (III) at PH< 3. PH will be reduced by the sulphuric acid. There will be mixing tank provided for Mixing will be done by the agitator at 50 rpm. Retention time for reaction will be around 5 minutes.

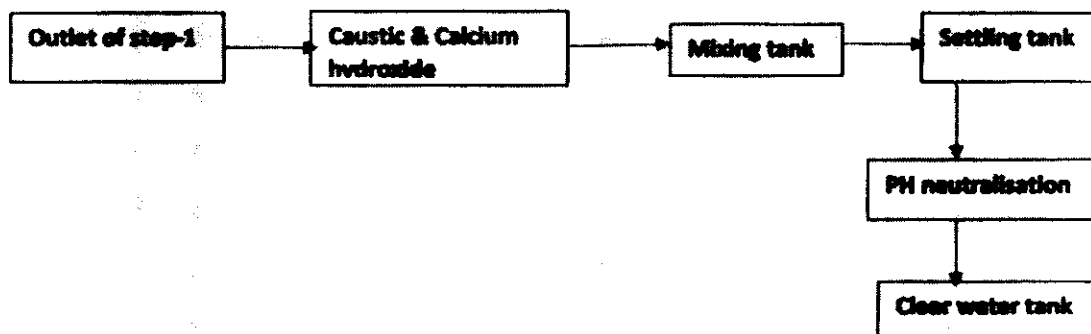


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- **Step-2: Process for precipitation of Chromium (III)**

After reduction of chromium (VI) to chromium (III) addition of calcium hydroxide in the combination of caustic and PH will be adjusted to 9 to 10 (Dosing rate will be set after the jar test). We will provide rapid mixing and slow mixing after addition of chemical. For slow mixing retention will be 5 minutes and for slow mixing retention will be 20 to 25 minutes. Agitator is provided for mixing. For slow mixing agitator speed will be 50 to 60 rpm and for rapid mixing agitator speed will be up 20 to 30 rpm. After that water will transfer to settling tank to allow precipitation. Settling tank HRT will be around 2 to 3 hours. Clear water will be collected by overflow of settling tank. Sludge will be collected from bottom and it will be given to solid waste management centre. After that PH neutralization will be done by Acid.



In the same process we will try with ferric chloride for precipitating chromium (III) for comparing the result instead of calcium hydroxide and caustic.

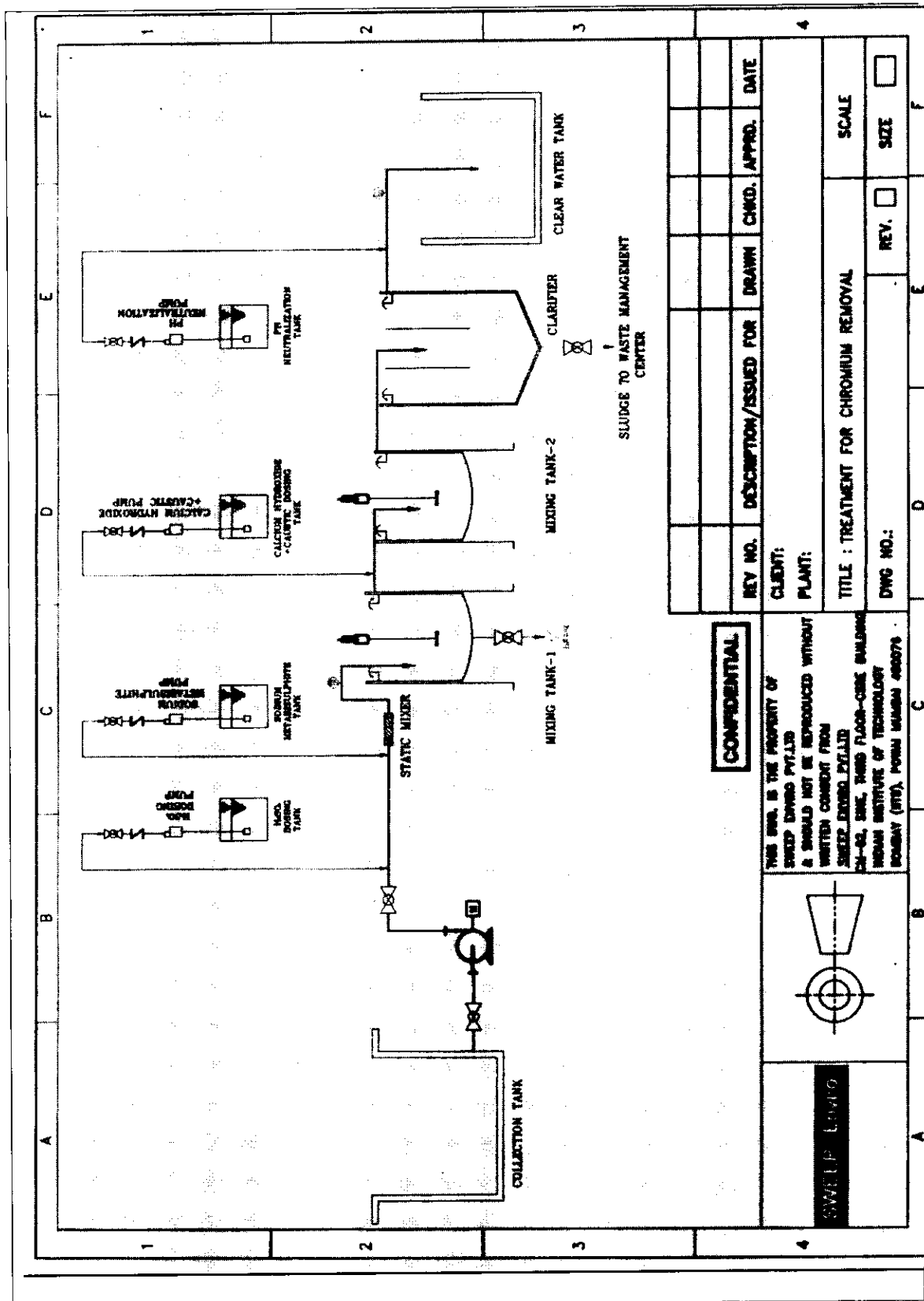
After that we can check the maximum removal percentage for chromium from the both the chemical dosing and finalize the chemical for dosing.

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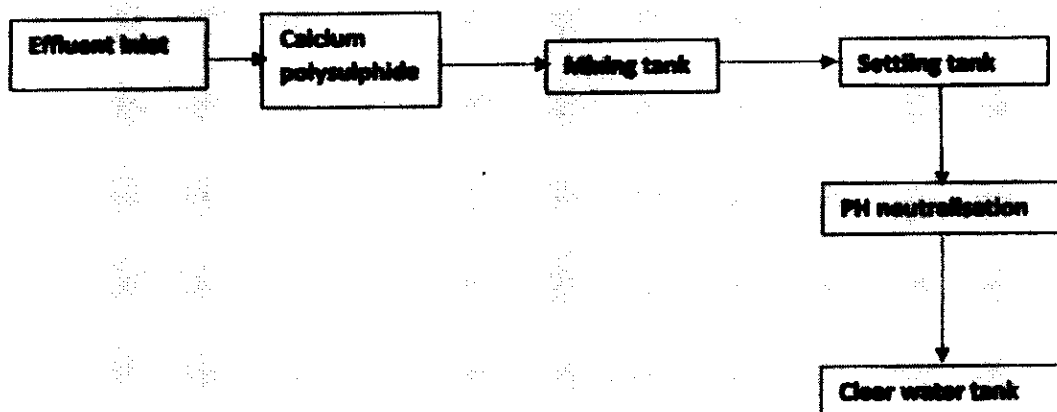
Chairman

Option-2

Process description:

In the waste water calcium polysulfide will be dose, which is capable of reducing Hexavalent chromium to trivalent, and then precipitates it as hydroxide. Calcium polysulfide will be dose online after that reaction tank is provide with retention time of 10 to 12 minutes. Agitator is provided with speed of 20 to 30 rpm. After that settling tank is provided with the HRT of 2 to 3 hours. Clear water will be collected in tank. Sludge will be disposed to solid waste management centre.

Calcium polysulfide is alkaline in nature because of that acid is added to clear water to neutralise the PH.

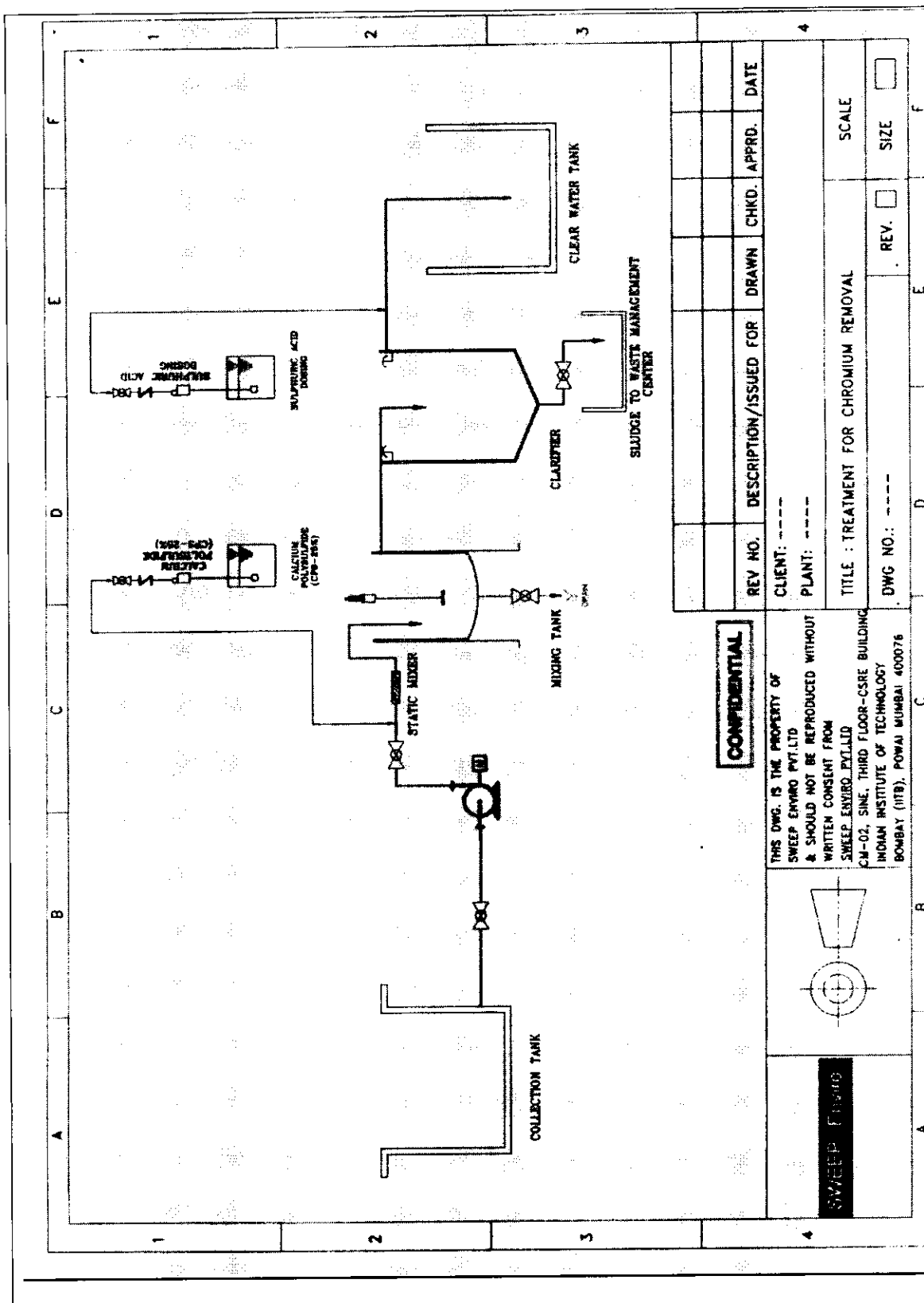


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Member Secretary

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Member Secretary

Chairman

Item no. 10	M/s. Vedant Re-Rolls Pvt. Ltd. New Project 400 MTD Phase III, MIDC Area, Additional Jalna, Dist. Jalna.
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PP remained present. However PP did not produce the requisite yield certificate from GSDA. Hence **deferred**.

Item no. 11	M/s. Gajlaxmi Steel Pvt Ltd. Expansion of Existing Engineering Industrial SSI unit at F-4, Addl. MIDC, Jalna Tal & Dist Jalna
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The Committee observed that the PP had been highly inconsistent in the submissions in the past presentations with regard to requirement of water for their production (ingots + structural steel). In present consideration the PP submits that the water requirement is 48 CMD and that they will be only producing ingots.

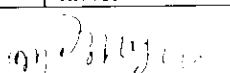
The water availability has been seen by the sub-committee during site visit as 4000 m³. Here they submit that they have alternate source of water the details of which they could not submit to the sub-committee.

In the light of all these inconsistencies and non-compliances, the Committee decided that the PP should submit fresh proposal which would be final and not subjected to any change. Therefore **deferred**.

Item no. 12	M/s. Gayatri Ispat Pvt Ltd. Expansion of engineering industrial to produce MS Ingot/ Billet 1000 MTD and or structural bar, angles, channels 1000 MTD unit at G-6, Addl MIDC Jalna, Tq & Dist Jalna
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The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	M/S GAYATRI ISPAT PVT LTD. G - 6, Addl. MIDC, Phase II, Jalna
2	Name, address, & contact number of Proponent	Mr. Lokesh Bharuka G-6, Addl MIDC, Phase II, Jalna 9850239699
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	Expansion
6	If expansion/Modernization. Whether environmental clearance has been obtained for existing project	No, was not required
7	Activity schedule in the EIA Notification	3 (a), "B"
8	Area Details	Total plot Area: 36550 m ² Built up area: Total 19,053 m ²
9	Name of the Notified Industrial area / MIDC area	Jalna


Member Secretary


Chairman

10	TOR given by SEAC?	No. Applied for TOR																									
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Rs.90.25 Cr.																									
12	Location details of the project :	1. Latitude 19°50'55.70"N 2. Longitude 75°51'12.32"E 3. Location 4. Elevation above Mean Sea Level (meters) 534 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).	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Raw Materials</th><th>Physical Nature</th><th>Quantity (TPD)</th><th>Means of transportation</th></tr> </thead> <tbody> <tr> <td>1</td><td>MS Scrap</td><td>Solid</td><td>380 TPD</td><td>By Road</td></tr> <tr> <td>2</td><td>Sponge Iron</td><td>Solid</td><td>580 TPD</td><td>By Road</td></tr> <tr> <td>3</td><td>Pig Iron</td><td>Solid</td><td>100 TPD</td><td>By Road</td></tr> <tr> <td>4</td><td>Ferrous silicon</td><td>Solid</td><td>18 TPD</td><td>By Road</td></tr> </tbody> </table>	Sr. No.	Raw Materials	Physical Nature	Quantity (TPD)	Means of transportation	1	MS Scrap	Solid	380 TPD	By Road	2	Sponge Iron	Solid	580 TPD	By Road	3	Pig Iron	Solid	100 TPD	By Road	4	Ferrous silicon	Solid	18 TPD	By Road
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Main Products MS Billets/ ingots/ MS Bars	- 1000 TPD																										
16	Process details / manufacturing details	Segregation-Melting –Tapping-Casting-Re-rolling																									
17	Rain Water Harvesting	Level of the Ground water table 4 to 8 meters Size and no of RWH tank(s) and Quantity 10mx 10mx 5m (1 no.). Location of the RWH tank(s) Near the shade Size, nos of recharge pits and Quantity																									
18	Total Water Requirement Total water requirement:	Fresh water (CMD): & Source 135 CMD Recycled water (CMD): Use of the water: Process (CMD): Cooling water (CMD): 90 CMD DM Water (CMD): Dust Suppression (CMD): Drinking (CMD): 6CMD Green belt (CMD): 27CMD Fire service (CMD): Others (CMD): Scrubbing 12																									
19	Storm water drainage	Natural water drainage pattern: By Gravity quantity of storm water Size of SWD 300 x 450 mm gutter																									
20	Sewage generation and treatment	Amount of sewage generation (CMD) 8 Proposed treatment for the sewage: septic tank/STP Capacity of the STP (CMD) (If applicable) 10 CMD																									
21	Effluent characteristic	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Parameters (pH, BOD, COD, heavy metal, etc)</th><th>Inlet effluent Characteristic</th><th>Outlet effluent Characteristic</th></tr> </thead> <tbody> <tr> <td>1</td><td>pH</td><td>6.5</td><td>7.00</td></tr> <tr> <td>2</td><td>COD</td><td>300-350</td><td><200</td></tr> <tr> <td>3</td><td>BOD</td><td>100-120</td><td><30</td></tr> </tbody> </table>	Sr. No.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic	Outlet effluent Characteristic	1	pH	6.5	7.00	2	COD	300-350	<200	3	BOD	100-120	<30									
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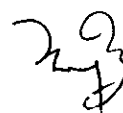
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22	ETP details	Amount of effluent generation (CMD): No Industrial effluent Capacity of the ETP (CMD) Amount of treated effluent recycled (CMD): Amount of water sent to the CETP (CMD): Membership of the CETP (If require): If yes then attach the letter submit the letter																												
23	Note on ETP technology to be used	Only Domestic Effluent																												
24	Disposal of the ETP sludge (If applicable)	Only domestic effluent, disposed on land for gardening																												
25	Solid waste Management:	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Waste</th> <th>Quantity</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Office waste</td> <td>66 kg/day</td> <td>Dry waste mainly paper waste will be recycled</td> </tr> <tr> <td>2</td> <td>STP sludge</td> <td>~1 kg/day</td> <td>Own garden</td> </tr> <tr> <td>3</td> <td>Packing waste</td> <td>nominal</td> <td>Sale, Recycle</td> </tr> <tr> <td>4</td> <td>Process waste- Refractory, scrap</td> <td>4 MT</td> <td>Reuse</td> </tr> <tr> <td>5</td> <td>Slag</td> <td>40MT</td> <td>Resale, Can be used for Building construction material, road making</td> </tr> </tbody> </table> <p>If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals, provide quantity, disposal data and proposed precautionary measures. None</p> <p>What are the possibilities of recovery and recycling of wastes By sale to the brick manufacturer Possible users of Solid Waste Brick manufacturer Method of disposal of solid waste Brick manufacturer</p>					Sr. No.	Waste	Quantity	Disposal	1	Office waste	66 kg/day	Dry waste mainly paper waste will be recycled	2	STP sludge	~1 kg/day	Own garden	3	Packing waste	nominal	Sale, Recycle	4	Process waste- Refractory, scrap	4 MT	Reuse	5	Slag	40MT	Resale, Can be used for Building construction material, road making
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26	Atmospheric Emissions: Flue gas characteristics (SPM, SO ₂ , NO _x , CO)	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Pollutant</th> <th>Source of emission</th> <th>Emission rate kg/hr</th> <th>Concentration in flue gas</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SPM</td> <td>Furnace</td> <td>32660 NM³/hr</td> <td>< 120mg/Nm³</td> </tr> </tbody> </table>					S. No.	Pollutant	Source of emission	Emission rate kg/hr	Concentration in flue gas	1	SPM	Furnace	32660 NM ³ /hr	< 120mg/Nm ³														
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01/10/2016

Member Secretary

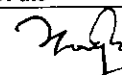


Chairman

28	Details of Fuel used:	<p>Source of Fuel : MSEB Mode of Transportation of : Transmission line fuel to site</p> <table border="1"> <thead> <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> <th></th> <th></th> <th>Existing</th> <th>Proposed</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <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 colspan="3" rowspan="4">Only Electric Power is used</td> </tr> <tr> <td>3</td> <td>HSD</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>Fuel Oil</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>Coal</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>Other (Pl. specify)</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						S. No	Fuel	Daily Consumption (TPD/KLD)		Calorific value (Kcals/kg) %	Ash %	Sulphur %			Existing	Proposed				1	Gas	-	-	-	-	-	2	Naphtha	-	-	Only Electric Power is used			3	HSD	-	-	4	Fuel Oil	-	-	5	Coal	-	-	6	Lignite	-	-				7	Other (Pl. specify)	-				
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29	Energy	<p>Power supply: Existing power requirement: 1000 KVA Proposed power requirement: 39000 KVA</p> <p>DG sets: Number and capacity DG sets to be used (existing and proposed) 2 no. 500 KVA Proposed</p> <p>Details of the non-conventional renewable energy proposed to be used :</p>																																																											
30	Green Belt Development	<p>Green belt area: 5800 m² Number and species of trees to be planted: (Existing.15no. + New 265 no. = 280no.) Number, size, age and species of trees to be cut, trees to be transplanted Nil</p>																																																											
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33	EIA Submitted (If yes then submit the salient features)	<p>Period of data collected 3Months, Oct, Nov & Dec - 2014 Details of the primary data collection (i.e. location of the</p>																																																											

(M) 8/10/16

Member Secretary


Chairman

		sample collection, number of visit, etc) : Details of the secondary data collection (i.e. Source and year of data) census book Potential hazard and mitigation measures Risk assessment and DMP design: Conclusion of the EIA study The project is necessary and helps in converting waste steel into usable finished products without any male effect on environment
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Previous consideration: The 104th Meeting held on 19th and 20th June 2015

Decision: The PP made a detailed presentation of the proposal to manufacture structural bars, angles and channels from M.S scrap, sponge iron etc. The plant will have a capacity 1000 MT/day.

After deliberations Committee made the following observations:

- 1) 33% of open area and 12% of total area may be kept reserved as a green space and parking space respectively.
- 2) MIDC's consent letter regarding assured water supply should be obtained.
- 3) Details of fuel consumption and stack height calculations.
- 4) Details of primary and secondary fume extraction system.
- 5) Traffic management studies including movement, holding area, loading unloading and facilities for drivers and cleaners.
- 6) Safety in material handling.

The standard **ToR** prescribed by MoEF & CC in its Notification of April 2015 for category 3(a) is **approved** for the preparation of EIA report.

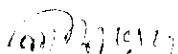
The above mentioned points 1-6 may be included as additional ToR points while preparing EIA report.

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 the EIA Notification, 2006. The PP made a detailed presentation of the proposal to manufacture structural bars, angles and channels from M.S scrap, sponge iron etc. to the extent of 1000 MT/day. The process involves melting scrap iron in 340 T induction furnace and passing the ingots through the rolling mill.

After detailed discussion the Committee made the following observations:

1. The Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.
2. The PP should set apart 4000 sq. m for parking and 6000 sq. m for green belt.
3. The emission management will be through venturi scrubber and high efficiency hydro cyclone followed by a stack of height 73m to achieve a TPM level of less than 100 mg/Nm³.
4. Water requirement after discussion and reduction of water in irrigation and domestic sewage comes to 100 m³/day. Considering scarcity of water in Jalna District, there should be sufficient water availability in the summer season. The PP submitted that he had a captive source of water at Jalna.
5. Asbestos should not be used for building construction.
6. 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.



Member Secretary



Chairman

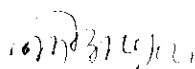
The PP submitted that he has a captive source of water at Jalna. The Committee desired that its sub-committee should visit the site to verify the water availability. Deferred for the site visit.

Present consideration 135th meeting:

The PP submitted compliance given in 133rd meeting. After detailed discussion the Committee made the following observations:

1. The PP should set apart 4000 m² for parking and 6000 m² for green belt.
1. The emission management should be through venturi scrubber and high efficiency hydrocyclone followed by a stack of height 54m to achieve an outlet TPM of less than 100 mg/Nm³. PP shall install secondary fume extraction system of sufficient capacity on the plant rooftop and treat the fumes through air pollution controlling system.
2. The Committee studied in detail the availability of water. The PP has submitted a letter from Senior Geologist, GSDA Jalna indicating that the PP could source 1,50,000 lit/day (150 CMD from its captive source in gut no. 44 & 45, Village- Jalna, Taluka- Jalna); the said letter is enclosed as **Annexure 12.1**. Further the Committee observed that the PP has in possession an abandoned quarry in plot no. B-105, Phase III, Additional MIDC Jalna which can supply 6400 m³ of water. Thus the Committee observed that during the 4 summer months a total quantum of 10800 m³ + 6400 m³ = 17200 m³ of water can be made available by the PP through captive sources as against requirement of 16200 m³ [135 CMD x 120 days]. Thus in the summer months the PP can run the plant in full capacity using the captive sources.
3. Asbestos should not be used for building construction.
4. 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 Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The Committee therefore decided to **recommend** the project for **EC** subject to the observations (1-4) above.



Member Secretary



Chairman

Item no. 13	M/s. Kalika Steel Jalna Pvt Ltd. Application for grant of TOR for proposed 150000 TPA M.S. Re-rolled, M.S. Bars, Angles, Channels by installing to furnace at F-18, 19, Additional MIDC Area Jalna.
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The brief information of the project as submitted by the PP is as follows:

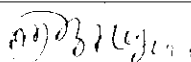
1.	Name of the Project	Manufacturing of M.S. Billets of Kalika Steel Jalna Pvt. Ltd				
2.	Name, address, e-mail & contact number of Proponent	Name: M/s Kalika Steel Jalna Pvt. Ltd., Address: Plot No. F-18 & F-19, Additional MIDC Area, Jalna-431203 Email: kalikajalna@gmail.com Contact Person: Mr. Arunkumar Agarwal -Director Contact: 0248-2220555 Fax No: 0248-2220223				
3.	Name of Consultant	Name: Pollution & Ecology Control Services				
4.	Accreditation of consultant (NABET Accreditation)	Yes Accredited vide letter no. NABET/EIA/02/12/47 dated 27/02/2012.				
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)	-				
7.	Activity schedule in the EIA Notification	The project falls under the Category 'B' of the Schedule of EIA Notification, 2006. Item no. - 3(a)				
8.	Area Details	Total plot Area (sq. m.): 15300 m ² Built up Area (sq. m.): - 5029.29 m ²				
9.	Name of the Notified Industrial area / MIDC area	Additional MIDC Area, Jalna				
10.	TOR given by SEAC? (if yes then specify the meeting)	Yes 77 th Meeting of the State Level Expert Appraisal Committee (SEAC-I)				
11.	Estimated capital cost of the project: (including cost of land, building, plant and machinery separately)	Rs. 25 Cr.				
12.	Location details of the project:	Latitude - 19°50'42.30"N Longitude - 75°50'19.87"E Location- Additional MIDC Area, Jalna in Maharashtra Elevation above Mean Sea Level (meters) - 534 m				
13.	Distance from protected Areas /Critically Polluted areas/ Eco-sensitive areas/ inter-State boundaries	No critically polluted area. No National Parks/Wild life Sanctuary within 10 km radius.				
14.	Raw materials (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 site) with justification
		MS Scrap	Lumps	515 TPD	Gujarat, Maharashtra and Chhattisgarh	Tarapaulin covered trucks.
		Sponge Iron	Lumps	220 TPD	Open Market	-do-
15.	Production details	Name of Products, By products and Intermediate Products	Existing (T/Year)	Proposed activity (new / modernization / expansion) (T/Year)	Total (T/Year)	

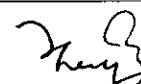
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Member Secretary

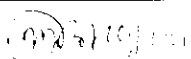
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Chairman

		<table border="1"> <tr> <td>Main Products</td><td>-</td><td>M.S. Billets (700 TPD)</td><td>M S Billets – 700 TPD</td></tr> <tr> <td>By-Products</td><td>-</td><td></td><td></td></tr> <tr> <td>Intermediate Products</td><td></td><td>-</td><td></td></tr> </table>	Main Products	-	M.S. Billets (700 TPD)	M S Billets – 700 TPD	By-Products	-			Intermediate Products		-																								
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16.	Rain Water Harvesting (RWH)	Level of the Ground water table Size and no. of RWH tank (s) and Quantity Location of RWH tank (s) Size, nos of recharge pits and Quantity Budgetary allocation (Capital cost and O&M cost)																																			
17.	Total Water Requirement	Total water requirement: Fresh water (CMD): 70 m ³ /day & Source – MIDC Recycled water (CMD): 16 m ³ /day Average annual Rain water storage : m ³ per annum Rain water use (CMD): m ³ /day <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Unit</th><th>Fresh water Requirement (in CMD)</th><th>Wastewater Generation</th></tr> </thead> <tbody> <tr> <td>1</td><td>Domestic use</td><td>7</td><td>6</td></tr> <tr> <td>2</td><td>Cooling purpose</td><td>43</td><td>-</td></tr> <tr> <td>3</td><td>Gardening</td><td>5</td><td>-</td></tr> <tr> <td>4</td><td>Scrubber</td><td>15</td><td>10</td></tr> <tr> <td></td><td>Total</td><td>70</td><td>6</td></tr> </tbody> </table> Use of the water : Process(CMD): m ³ /day Cooling water(CMD): 43m ³ /day DM Water (CMD): m ³ /day Dust Suppression(CMD): Drinking (CMD): 7m ³ /day Green belt(CMD): 5m ³ /day treated water will be reused Fire service(CMD): Others (CMD): Scrubber : 15 m ³ /day	Sr. No.	Unit	Fresh water Requirement (in CMD)	Wastewater Generation	1	Domestic use	7	6	2	Cooling purpose	43	-	3	Gardening	5	-	4	Scrubber	15	10		Total	70	6											
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18.	Storm water drainage	Natural water drainage pattern - Quantity of storm water Size of SWD																																			
19.	Sewage generation and treatment	Amount of sewage generation (CMD) - 6 m ³ /day Proposed treatment for the sewage – Sewage will be treated in STP Domestic solid waste will be treated in Sewage Network of MIDC Capacity of the STP (CMD) (If applicable) – 40 KLD																																			
20.	ETP details	Amount of effluent generation (CMD) – Capacity of the ETP (CMD) – Amount of treated effluent recycled (CMD): Amount of water send to the CETP (CMD): Membership of the CETP (If require): If yes then attach the letter submit the letter – No wastewater generation																																			
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Member Secretary


Chairman

		<p>Possible users of Solid waste – Since the solid waste generated from induction furnace is non hazardous in nature it can be use in hardening of working area, possibilities can be explore for its use in construction of internal village roads, and filling of stone quarry pits.</p> <p>Method of disposal of solid waste – The slag which is generated during melting of scrap and sponge in induction furnace is mostly comprising of SiO₂ (silica) FeO (iron oxide) and Al₂O₃ (alumina). These are fairly stable materials.</p> <p>Slag Crusher unit will be installed. After crushing slag is used for Hardening of working area, village internal roads.</p> <p>Since slag contains 32- 34 % of iron it will be always feasible & economically viable to extract maximum iron. Magnetic Separator will be used to separate the iron. The slag crusher that will be installed will be capable of crushing slag to 2 mm.</p>																																																						
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						For SO ₂	For NO _x																																																	
		Stack attached to Induction Furnace	1 st	30 m	1.6m	-	3.89	50°C																																																
23.	Green Belt Development	<p>Green belt area (Sq. m.): 30% of total land</p> <p>Number and species of trees to be planted - Approximately 1600 trees per Ha will be planted in consultation with the local Forest Department</p> <p>Number, size, age and species of trees to be cut, trees to be transplanted</p>																																																						
24.	Details of Pollution Control Systems:	Sr. No.		Existing pollution control system		Proposed to be installed																																																		
		i.	Air	-		Wet Scrubbers followed by stack of 30 mt height.																																																		
		ii.	Water	-		Settling Tank																																																		
		iii.	Noise	-		Ear muffs/ear plugs will be provided to the workers, Acoustic laggings and silencers will be provided in equipment																																																		
		iv)	Solid Waste	-		Slag Crusher																																																		
25.	Environmental Management Plan Budgetary Allocation	<p>Capital cost (With break up):</p> <p>O& M cost (With break up):</p> <table border="1"> <thead> <tr> <th>Sr.No.</th><th></th><th>Recurring Cost per annum (Rs. Lakhs)</th><th>Capital cost (Rs. Lakhs)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Air Pollution Control</td><td>10</td><td>70</td></tr> <tr> <td>2.</td><td>Water Pollution Control</td><td>1</td><td>5</td></tr> <tr> <td>3.</td><td>Noise Pollution Control</td><td>-</td><td>-</td></tr> <tr> <td>4.</td><td>Environment Monitoring and Management</td><td>3</td><td>-</td></tr> <tr> <td>5.</td><td>Reclamation borrow/mined area (If applicable)</td><td>-</td><td>-</td></tr> <tr> <td>6.</td><td>Occupational Health</td><td></td><td></td></tr> <tr> <td>7.</td><td>Green Belt</td><td>2</td><td>5</td></tr> <tr> <td>8.</td><td>Solid waste management</td><td>3</td><td>40</td></tr> <tr> <td>9.</td><td>Others (Pl. Specify)</td><td>3</td><td>-</td></tr> <tr> <td></td><td>Environmental Cell</td><td></td><td></td></tr> <tr> <td colspan="2">Total</td><td>22</td><td>120</td></tr> </tbody> </table>							Sr.No.		Recurring Cost per annum (Rs. Lakhs)	Capital cost (Rs. Lakhs)	1.	Air Pollution Control	10	70	2.	Water Pollution Control	1	5	3.	Noise Pollution Control	-	-	4.	Environment Monitoring and Management	3	-	5.	Reclamation borrow/mined area (If applicable)	-	-	6.	Occupational Health			7.	Green Belt	2	5	8.	Solid waste management	3	40	9.	Others (Pl. Specify)	3	-		Environmental Cell			Total		22	120
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Total		22	120																																																					
26.	EIA Submitted (If yes then submit the salient features)	<p>Period of data collected – February, March, April 2014</p> <ul style="list-style-type: none"> • 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 EIA study 																																																						
27.	Public Hearing report (If public hearing conducted then submit the salient	<ul style="list-style-type: none"> • Date of the public hearing – N.A • Name of the news paper in which the advertisement appeared (Please attach the copy) 																																																						


Member Secretary


Chairman

	features)	<ul style="list-style-type: none">• Location of the public hearing• Number of people attended the hearing• Objection(s) / Suggestion(s) if any
28.	Air pollution, water pollution issues in the project area. If any	-

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

The Committee considered the application of PP for EIA for proposed 1,50,000 TPA M.S re-rolled, M.S bars, angles, channels by using induction furnace. The Committee decided to defer the proposal for want of assured water supply for the processes. Hence deferred.

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

Decision: The Committee noted that the project was considered under 3(a) - B1 category of the EIA Notification, 2006. The PP gave a detailed presentation of their proposal to convert their existing plant to produce 700 TPD of re-rolled MS bars from ingots sourced from outside to a composite plant comprising of induction furnace and rolling mill to produce the same quantum of MS bars.

The process will require upto 100 CMD of water. The PP could not give satisfactorily explanation to the quantum of water being made available in water scarcity area like Jalna. The Committee suggested that water could be sourced from some other similarly placed mills who have their own surplus captive water sources. The PP may indicate water availability either from captive sources or from captive sources of other mills.

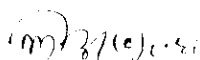
Deferred for solution to water availability.

Present consideration 135th meeting:

The Committee noted that the project was considered under 3(a) - B1 category of the EIA Notification, 2006. The PP gave a detailed presentation of their proposal to convert their existing plant to produce 700 TPD of re-rolled MS bars from ingots sourced from outside to a composite plant comprising of induction furnace and rolling mill to produce the same quantum of MS bars.

After detailed discussion the Committee made the following observations:

2. The PP should provide 1800 m² for parking and 3300 m² for green belt.
3. The emission management will be through venturi scrubber and high efficiency hydrocyclone followed by a stack of height 54m to achieve an outlet TPM of less than 100 mg/Nm³. PP shall install secondary fume extraction system on the plant rooftop and treat the fumes through air pollution controlling system.
4. The Committee has considered water requirement of 100 CMD. The Committee desires that for the 4 summer months when there is acute scarcity in Jalna, PP should be able to provide water from its captive sources. PP has provided water availability certificates as follows-
 - a) Village- Sirsewadi, Taluka- Jalna (well): Senior Geologist, GSDA has certified water availability of 75 CMD in summer.[enclosed as **Annexure 13.1**]
 - b) Gut no. 139, Village- Jalna, Taluka- Jalna (well): Senior Geologist, GSDA has certified water availability of 50 CMD in summer. [enclosed as **Annexure 13.1**]



Member Secretary



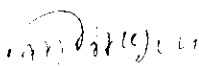
Chairman

- c) Gut no. 139, Village- Jalna, Taluka- Jalna (1 bore well of 150mm diameter and 60m depth): Senior Geologist, GSDA has certified water availability of 25 CMD in summer.[enclosed as **Annexure 13.2**]

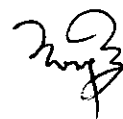
Thus total water availability is 150 CMD (in summer) as against requirement of 100 CMD. Therefore the Committee concluded that the PP was self-sufficient in water during summer. The PP should not burden MIDC in case of water shortage during the summer months.

5. 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.
6. As a part of CSR activity the PP may take the lead to display daily Ambient Air Quality details in front of main gate of Additional MIDC, Jalna for public information. The PP may garner support from other steel mills in the MIDC for this initiative.

The Committee went through all aspects of Environmental Impact and noted that the air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The Committee therefore decided to **recommend** the project for **EC** subject to the observations (1-6) above.



Member Secretary



Chairman

"Annexure 13.1"

वरिष्ठ पृथक्कारक
मृजल सर्वेक्षण आणि विकास यंत्रणा,

Ann. 13-1

जालना

फोन नं. ०२४८२-२२५२१९ ईमेल- argsojin@rediffmail.com

जा.क्र.वधूरे/मृसविद्य/ता/जा / १६

दि. १६/०९/२०१६
16 SEP 2016


प्रति,
व्यवस्थापक,
कनसिका स्टील,
जालना प्रायव्हेट लिमिटेड
एक-१८६१९
एन आर डी सी क्षेत्र,
जालना ४०१२०३

विषय: पाणी उपलब्धतेच्या प्रमाणपत्राबाबत.

संदर्भ: आपले पत्र क्र.- दि.१४/०९/२०१६

उपरोक्त संदर्भात विषयामध्ये आपणास कळविण्यात येते की, मी. शिरसवाडी ता.जि. जालना जिल्हा नट क्र.१५ येथील कनसिका स्टील जालना प्रा.लि. यांच्या जागेमध्ये अस्तित्वात असलेल्या विहीरीची खोली १४ मी. व व्यास ६ मी. असून सदर विहीर डी. शिरसवाडी कडार तलावाच्या प्रभाव क्षेत्रात येते. सदर विहीरीद्वारे सर्वसाधारण पर्जन्य काळामध्ये हिराकवात १ लाख लिटर/प्रतिदिनी व उन्हाळ्यात ७५ ते ८० हजार लिटर/प्रतिदिनी पाणी उपलब्ध होवू शकेल.

मी. जालना ता.जि. जालना जिल्हा नट क्र.१३९ येथील कनसिका स्टील जालना प्रा.लि. यांच्या जागेमध्ये अस्तित्वात असलेल्या विहीरीची खोली १६ मी. व व्यास ६ मी. सदर विहीरीद्वारे सर्वसाधारण पर्जन्य काळामध्ये हिराकवात ७० हजार लिटर/प्रतिदिनी व उन्हाळ्यात ५० हजार लिटर/प्रतिदिनी पाणी उपलब्ध होवू शकेल.


वरिष्ठ पृथक्कारक,
मृजल सर्वेक्षण आणि विकास यंत्रणा
जालना.

"Annexure 13.2"

वरिष्ठ भूवैज्ञानिक
भूजल सर्वेक्षण आणि विकास यंत्रणा,
जालना

फोन नं. ०२४८२- २२५२९९ ईमेल- argeojn@rediffmail.com

जा.क्र.वसुधै/भूसर्विध/ता/जा / /१६


दि २१/९/२०१६

प्रति,
✓ व्यवस्थापक,
कालिका स्टील,
जालना प्रायव्हेट लिमिटेड
एफ-१८&१९
एम आय डी सी क्षेत्र,
जालना ४०१२०३

विषय:- पाणी उपलब्धतेच्या प्रमाणपत्राबाबत.

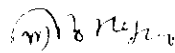
संदर्भ:- आपले पत्र क्र.- दिनांक २१/०९/२०१६

उपरोक्त संदर्भीय विषयान्वये आपणास कळविण्यात येते की, मी. जालना ता.जि. जालना येथील गट क्र.१३९ येथील कालिका स्टील जालना प्रा.लि. बांध्या जागेमध्ये ६० मिटर खोलीच्या व १५० मी.मी. व्यासाच्या दोन विध्वन विहिरी अस्तित्वात असून सदर विध्वन विहिरी मधून अंदाजीत दिवाळ्यात ४०,००० हजार लिटर/दिवस व उन्हाळ्यात २५,०००/- हजार लिटर/दिवस पाणी उपलब्ध होऊ शकेल करिता प्रमाणपत्र देण्यात येत आहे.


वरिष्ठ भूवैज्ञानिक,
भूजल सर्वेक्षण आणि विकास यंत्रणा,
ज.स. विभाग-जालना.

Item no. 14	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
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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)


Member Secretary


Chairman

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 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.

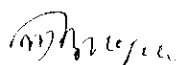
Item no. 15	Minor Minerals (stone) Sindhudurg
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The Committee went through the decision of Hon'ble National Green Tribunal (Western Zone) Bench, Pune in Execution Application no. 22/2016 in Appeal No. 32 of 2015. The Committee observed that the Hon'ble NGT has taken an exception to the decision of the Committee to keep the cases in abeyance which were pending for the finalization of the Draft Notification of MoEF&CC on ESA villages, dated 14.9.2015.

The Committee deliberated on the decision taken by it and unanimously concluded that the said decision was consciously taken keeping in mind the high probability that Villages in Draft could appear in the Final Notification, in so far as the Draft Notification was based on meticulous and exhaustive studies of the High Level Working Group. Any decision to allow a prohibited activity will not be in the interest of the preservation of ecology of Western Ghats. The Committee is averse to taking an irreversible decision in this regard. Therefore though the Committee respects the views and comments made by Hon'ble NGT, **it would rather not change its decision once taken.**

Item no. 16	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.
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The PP remained present. However the members desired to go through the EIA report which was not made available in time. Therefore **deferred**.



Member Secretary

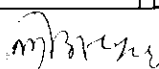


Chairman

Item no.17	M/s. Modepro India Pvt. Ltd. At plot no. D-16/2, MIDC TTC, Navi Mumbai, District-Thane.
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The brief information of the project as submitted by the PP is as follows:

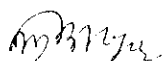
1	Name of the project	Modepro India Pvt. Ltd.																																							
2	Name , address, e-mail & contact number of proponent	Modepro India Pvt. Ltd. 409, Bezzola Complex, V.N Purav Marg, Chembur, Mumbai - 400071 e-mail: info@modepro.com Contact no. 022-42504550																																							
3	Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.																																							
4	Accreditation of Consultant (NABET accreditation)	NABET Accredited QCI- NABET/EIA/RAAC/71 dated 2 nd Dec 2015.																																							
5	New Project/Expansion in existing project /Diversification in existing project	Expansion																																							
6	If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)	No																																							
7	Activity schedule in the EIA notification	5 (f), Project Category - B1																																							
8	Area Details	<table border="1"> <thead> <tr> <th>Particulars</th><th>Existing (M2)</th><th>Proposed (M2)</th><th>Total (M2)</th></tr> </thead> <tbody> <tr> <td>Total Plot Area</td><td>3670.60</td><td>-</td><td>3670.60</td></tr> <tr> <td>Ground Coverage Built Up Area</td><td>1253.13</td><td>50.0</td><td>1303.13</td></tr> <tr> <td>Green Belt Area</td><td>605.64</td><td>-</td><td>605.64</td></tr> <tr> <td>Parking Area</td><td>221.00</td><td>220.00</td><td>441.00</td></tr> </tbody> </table>				Particulars	Existing (M2)	Proposed (M2)	Total (M2)	Total Plot Area	3670.60	-	3670.60	Ground Coverage Built Up Area	1253.13	50.0	1303.13	Green Belt Area	605.64	-	605.64	Parking Area	221.00	220.00	441.00																
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9	Name of Notified Industrial area/ MIDC	TTC - MIDC, Navi Mumbai.																																							
10	TOR given by SEAC?	yes																																							
11	Estimated cost of the project : (Including cost for land, building, plant and machinery separately)	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Particulars</th><th>Existing Cost</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>1</td><td>Land</td><td>0</td><td>0</td></tr> <tr> <td>2</td><td>Building/Premises</td><td>3,98,20,817.00</td><td>0</td></tr> <tr> <td>3</td><td>Plant & Machinery / Equipment</td><td>10,06,54,976.0</td><td>4,00,00,000</td></tr> <tr> <td>4</td><td>Furniture & Fixture</td><td>0</td><td>0</td></tr> <tr> <td>5</td><td>Office Equipment</td><td>0</td><td>0</td></tr> <tr> <td>6</td><td>Any other movable / immovable fixed assets (Please specify) a) IS equipments</td><td>52,94,440.00 (Electric Installation)</td><td>0</td></tr> <tr> <td>7</td><td>Capital work in progress (if any)</td><td>0</td><td>0</td></tr> <tr> <td></td><td>Total</td><td>14,57,70,233.0</td><td>4,00,00,000</td></tr> </tbody> </table>				Sr. No.	Particulars	Existing Cost	Proposed	1	Land	0	0	2	Building/Premises	3,98,20,817.00	0	3	Plant & Machinery / Equipment	10,06,54,976.0	4,00,00,000	4	Furniture & Fixture	0	0	5	Office Equipment	0	0	6	Any other movable / immovable fixed assets (Please specify) a) IS equipments	52,94,440.00 (Electric Installation)	0	7	Capital work in progress (if any)	0	0		Total	14,57,70,233.0	4,00,00,000
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12	Location details of the project	<table border="1"> <tr> <td>Latitude</td><td>19° 3'51.24"N</td></tr> </table>				Latitude	19° 3'51.24"N																																		
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Member Secretary


Chairman

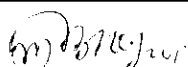
		Longitude	73° 1'43.99"E			
		Location	TTC – MIDC, Navi Mumbai			
		Elevation Above Mean Sea Level (meters)	18 m			
13	Distance from protected area/ critically polluted area/ Eco sensitive area/ Interstate boundary	Proposed expansion project is located in Notified TTC - MIDC area, Navi Mumbai.				
14	Production profile (tones/ year):	Sr. No.	Product Name	Existing (T/A)	Proposed (T/A)	Total (T/A)
		1	2-Benzoyl Pyridine	3.0	-	3.0
		2	Amide	2.4	-	2.4
		3	2-Benzyl Pyridine	24.0	-	24.0
		4	4-Benzyl Pyridine	12.0	-	12.0
		5	5,6-Dihydro-6-methyl-4-oxothieno[2,3-b] thiopyran-2-sulphonamide (Dorzolamide Intermediate Racemic)	0.6	-	0.6
		6	(6S)-6-methyl-4-oxo-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulphonamide (Dorzolamide Intermediate)	-	4.0	4.0
		7	(6S)-6-Methyl-5,6-dihydro-4H-thieno[2,3-b] thiopyran-4-one 7,7-dioxide (Dorzolamide Intermediate)	-	1.0	1.0
		8	2-Bromo-5-benzoyl thiophene	-	10.0	10.0
		9	3-Acetyl-2,5-dichlorothiophene	-	10.0	10.0
		10	2-Chlorothiophene	-	10.0	10.0
		11	1-Methyl-1-phenyl-1-(2-pyridyl)methanol.HCl	-	10.0	10.0
		12	2-Chloro-3-methylthiophene	-	10.0	10.0
		13	4-Methoxy-5-[3-(morpholin-4-yl) propoxy]-2-nitrobenzonitrile (Gefitinib Intermediate)	-	3.0	3.0
		14	(-)-3,4-Dihydro-2-(3-methoxypropyl)-4-ol-2H-thieno-[3,2-e]-1,2-thiazine-6-sulfonamide-1,1-dioxide	-	1.0	1.0
		15	5-Chlorothiophene-2-carbonyl chloride	-	1.0	1.0
		16	Trans-4-Methyl Cyclohexyl Amine Hydrochloride (Glimepiride intermediate)	1.2	-	1.2
		17	5-Chlorothiophene-2-carboxylic acid (Rivaroxaban Intermediate)	-	2.0	2.0
		18	4-{4-[(5S)-5-(Amino methyl)-2-oxo-1,3-oxazolidin-3-yl]phenyl} morpholin-3-one(Rivaroxaban Intermediates)	-	1.0	1.0
		19	3-(Bromomethyl)-7-chloro-1-benzothiophene (Sertaconazole intermediate)	-	1.0	1.0
		20	Ethyl 2-chloro-2-[2-(4-methoxyphenyl) hydrazono]acetate (Apixaban Intermediate)	-	2.0	2.0
		21	2-Amino-N-(2-fluoro-6-methyl phenyl)thiazole -5-carboxamide (Dasatinib Intermediate)	-	2.0	2.0
		22	2-Acetylbenzo[b]thiophene (Zileuton Intermediate)	-	1.0	1.0
		23	(S)-3-((2R,5S)-2-((S)-4-(benzyloxy)phenyl)((4-fluorophenyl)amino) methyl)-5-(4-fluorophenyl)-5-	-	1.0	1.0




Member Secretary


Chairman

				((trimethylsilyl)oxy)pentanoyl)-4-phenyl oxazolidin-2-one (Ezetimibe Intermediate)																																	
				TOTAL	43.2	70.0	113.2																														
15	By Products	Name of Products, By products and Intermediate Products	Existing	Proposed activity (new)	Total																																
		By Products	No By Products	No By Products	-																																
		Intermediate Products	No Intermediate Products	No Intermediate Products	-																																
16	Rain Water Harvesting (RWH)	Rain water Harvesting is not deployed 1) Level of the Ground water table (Pre Monsoon Water Level) - 3.20 mbgl 2) Level of the Ground water table (Post Monsoon Water Level) - 1.02 mbgl 3) Size and no of RWH tank(s) and Quantity = 1x 10 KL RWH Tank 4) Location of the RWH tank(s) is behind the Building - II towards the Eastern boundary of the plot.																																			
17	Total Water Requirement	Total Water Requirements: Existing: 14.8 m ³ /day After Expansion : 48.5 m ³ /day Total water requirement after expansion: 48.5 m ³ /day Source: TTC - MIDC Total Water Requirement: Domestic: 2.6 m ³ /day Processes: 10.0 m ³ /day Boiler: 12.0 m ³ /day Cooling Tower: 19.9 m ³ /day Gardening: 4.0 m ³ /day																																			
18	Storm water drainage	Storm water drained into MIDC drainage line																																			
19	Sewage generation and Treatment	Quantity of Sewage generation: 2.1 m ³ /day Proposed Treatment: Septic tank overflow routed to Aeration Tank of ETP.																																			
20	Characters of effluent	<table><tr><td>Sr. No.</td><td>Details</td><td>Units</td><td>High COD/TDS Concentration</td><td>Low COD/TDS Concentration</td></tr><tr><td>1.</td><td>pH</td><td>--</td><td>3.9</td><td>5.9</td></tr><tr><td>2.</td><td>Total Dissolved solids</td><td>mg/lit</td><td>67745.2</td><td>2031.6</td></tr><tr><td>3.</td><td>Chemical Oxygen Demand</td><td>mg/lit</td><td>39973.15</td><td>2905.5</td></tr><tr><td>4.</td><td>Biochemical Oxygen Demand, 3 day, 27 °C</td><td>mg/lit</td><td>13403.04</td><td>820.2</td></tr><tr><td>5.</td><td>Total Suspended Solids</td><td>mg/lit</td><td>12068.81</td><td>219.4</td></tr></table>						Sr. No.	Details	Units	High COD/TDS Concentration	Low COD/TDS Concentration	1.	pH	--	3.9	5.9	2.	Total Dissolved solids	mg/lit	67745.2	2031.6	3.	Chemical Oxygen Demand	mg/lit	39973.15	2905.5	4.	Biochemical Oxygen Demand, 3 day, 27 °C	mg/lit	13403.04	820.2	5.	Total Suspended Solids	mg/lit	12068.81	219.4
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5.	Total Suspended Solids	mg/lit	12068.81	219.4																																	
(All the parameters are express in mg/L except pH)																																					
21	ETP Details	Quantity of Effluent Generation: 20.2 m ³ /day Capacity of ETP: 30 m ³ /day & MEE of 5 CMD Capacity Quantity of Effluent to be recycle: 6.8 m ³ /day Quantity of Effluent to be sent to CETP: 10.0 m ³ /day																																			
22	Note on ETP technology to be used	After expansion of the project HCOD/TDS & LCOD/TDS effluent load will get segregated and treated separately within the plant premises HCOD/TDS effluent from manufacturing process and scrubber would get treated by giving Pre Primary, Primary treatment. The overflow from the PST will be subjected to the Stripper MEE with ATFD. The condensate from the evaporator unit & ATFD will get stored in MEE Condensate tank. The MEE condensate will be further treated in Aeration tank of Conventional ETP along with LCOD & Sewage effluent. LCOD/LTDS effluent from Manufacturing process, scrubbers will be treated in conventional ETP comprises of Primary, Secondary & Tertiary Treatment facility. After Treatment of effluent it will be partially use for utility or gardening and remaining treated effluent will be sent to the CETP.																																			

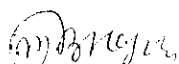


Member Secretary



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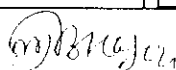
23	Disposal of the ETP sludge (if applicable)	S.No	Particular	Existing	Proposed	Total	Disposal
		1	ETP Sludge	4500 kg/A	4500 kg/A	9000 kg/A	Tans Thane Creek Waste Management Association - CHWTSDF, Mahape
		2	MEE Residue	--	373 kg/day	373 kg/day	
24	Solid waste Management	Solid Hazardous Waste					
		Sr. No	Particulars	Existing	Proposed	Total	Method of Disposal
		1	ETP Sludge	4500 kg/A	4500 kg/A	9000 kg/A	Tans Thane Creek Waste Management Association - CHWTSDF, Mahape
		2	Distillation Residue	0.1 T/A	2.43 T/A	2.53 T/A	
		3	MEE Residue	--	373 kg/day	373 kg/day	
		4	Spent Solvents	0.16 T/D	0.43 T/D	0.59 T/D	90-95 % Reuse/ Sale to authorized parties.
		5	Empty Carboys, Bags etc	100 kg/M	220 kg/M	320 kg/M	MPCB authorized recycler
		6	Drums	100 units	185 units	285 units	
		Non Hazardous Waste					
		Sr. No	Particulars	Existing	Proposed	Total	Method of Disposal
		1	Scrap Material	75 kg/M	75 kg/M	150 kg/M	
25	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr. No	Pollutant	Source of emission	Emission Rate (Kg/hr)	Concentration in flue gas (g/m ³)	
		1	SO ₂ emission (Kgs / Day)	Boiler, Thermopack & D.G. Set	27.04 Kg/hr or 27043 Nm ³ /hr	1.707 g/m ³ Or 1108 Kg/day	
		2	SPM emission (mg/NM ³)	Boiler, Thermopack & D.G. Set	27.04 Kg/hr or 27043 Nm ³ /hr	< 0.15 g/m ³ Or < 150 mg/NM ³	
26	Stack emission Details: (All the stacks attached to process units, Boilers, Boilers, captive power plant, D.G. Sets, Incinerator both for existing and proposed activity). Please indicate	Plant Section & Units	Stack No.	Height from ground level (m)	Internal diameter (top) (m)	Existing/Proposed	Temp. of exhaust (°C)
		Boiler (600 kg / Hr)	1	30	0.35	Existing Stack of 15 m will get replaced with stack of 30m height	93
		Thermopack					
		Scrubber	1	11 mtr	0.5	Existing	32
		Scrubber	2	11 mtr	0.5	Existing	32
		DG Set	1	7.16 mtr above	0.12	Existing	50



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	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, SO ₂ , NO _x etc. should be specified			Ground level																																												
27	Details of Fuel to be used	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Item</th><th>Existing Lit/Day</th><th>Proposed Lit/Day</th><th>Total Lit/Day</th><th>Calorific value (kcal / kg)</th><th>% Ash</th><th>% Sulphur</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Furnace Oil (Boiler)</td><td>288</td><td>288</td><td>1194</td><td>10,000</td><td>0.03 – 0.07%</td><td>4%</td></tr> <tr> <td></td><td>Furnace (Thermic Fluid Heater)</td><td>546</td><td>--</td><td>--</td><td></td><td></td><td></td></tr> <tr> <td colspan="8">D.G Set</td></tr> <tr> <td>2.</td><td>Diesel</td><td>35 /hr (Total consumption will depend on hours of power failure)</td><td>(Total consumption will depend on hours of power failure)</td><td>(Total consumption will depend on hours of power failure)</td><td>10000</td><td>0.03 % – 0.07 %</td><td>1.8 %</td></tr> </tbody> </table> <p>Source of Furnace Oil: Local Vendor Mode of transportation of fuel to site: By Road</p>	Sr. No.	Item	Existing Lit/Day	Proposed Lit/Day	Total Lit/Day	Calorific value (kcal / kg)	% Ash	% Sulphur	1.	Furnace Oil (Boiler)	288	288	1194	10,000	0.03 – 0.07%	4%		Furnace (Thermic Fluid Heater)	546	--	--				D.G Set								2.	Diesel	35 /hr (Total consumption will depend on hours of power failure)	(Total consumption will depend on hours of power failure)	(Total consumption will depend on hours of power failure)	10000	0.03 % – 0.07 %	1.8 %						
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28	Energy	<p>Details of Electricity Requirement Electricity Supplied by: MSEB Existing Power Demand: 311 KVA Existing Connected Load: 759 KW</p> <p>Proposed additional Power Demand :380 KVA Proposed additional Connected Load: 105 KW</p> <p>Total Power Demand: 691 KVA Total Connected Load : 864 KW</p> <p>D.G Set D.G Set : 250 KVA X 1 Nos Fuel used : Diesel Consumption Qty: 35 L/Hr (D.G .Set will be operational during power failure only).</p>																																														
29	Green Belt Development	Existing: 605.64 sq.m. Proposed : -- Total : 605.64 sq.m.																																														
30	Details of Pollution Control Systems	<table border="1"> <thead> <tr> <th>Sr. no</th><th>Components</th><th>Existing</th><th>Proposed</th></tr> </thead> <tbody> <tr> <td>1</td><td>Air</td><td>1. Boiler stack: 15 m Common stack for Boiler & Thermic Fluid Heater</td><td>1. New common stack of 30 m height will be provided.</td></tr> </tbody> </table>	Sr. no	Components	Existing	Proposed	1	Air	1. Boiler stack: 15 m Common stack for Boiler & Thermic Fluid Heater	1. New common stack of 30 m height will be provided.																																						
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Member Secretary

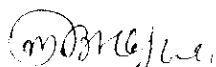

Chairman

				2. Process: 1. 2000 CFM acidic scrubber 2. 500 CFM alkaline scrubber	The existing scrubber capacities are sufficient to mitigate the emissions from the proposed activity
		2	Water	ETP Capacity : 15 CMD	Up gradation of existing ETP to 30 CMD capacity & installation of 5 CMD capacity MEE
		3	Noise	PPE, Green Belt Acoustic enclosures,	--
		4	Solid waste	Membership with CHWTSDF – Trans Thane Creek Waste Management Association, CHWTSDF at Mahape	Same facility will be utilized
31	Environmental Management plan O&M cost (With break up) : Budgetary Allocation	Sr. No.	Parameters	Recurring Cost per Annum (Rs.)	Capital Cost (Rs.)
		1	Air Pollution Control	1,20,000/-	20,50,000/-
		2	Water Pollution Control	10,10,000/-	1,30,00,000/-
		3	Noise Pollution Control	15,000/-	-
		4	Environment Monitoring and Management	5,10,000/-	-
		5	Occupational Health	1,10,000/-	1,80,000/-
		6	Green Belt	40,000/-	-
		7	Solid Waste Management	65,000/-	1,20,000/-
		8	Rain Water Harvesting	20,000/-	1,50,000/-
		Total (Rs.)		18,90,000/-	1,55,00,000/-
Capital Cost of the Project: 18.57 Crore EMP Cost: 1.55 Crore Recurring EMP cost: Rs 18,90,000					
32	EIA Submitted (If yes then submit the salient features)	Yes			

The PP gave a detailed presentation of their EIA report envisaging augmentation of their production capacity of API intermediates and Fine Chemicals from 43.2 TPA to 113.2 TPA. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006.

The baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. After detailed deliberations the Committee made the following observations:

1. The PP submitted that the CETP at MIDC TTC, Navi Mumbai has capacity to take additional load. The Committee took note of this. MPCB may verify this before granting Consent to Operate.
2. The PP will provide 12% of plot area for parking and 33% of un-built area for green belt. 2 gates are existing on the Southern side of the plot adjoining the road.

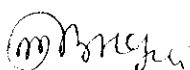


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3. A detailed presentation was made on Risk Assessment and Risk Mitigation. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration in case of accidents. Diagram enclosed in the ***Annexure 17.1*** 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.
4. Effluent management envisages segregation of streams into High COD/TDS and Low COD/TDS streams. The former stream will be subjected to pre-treatment with Phenton / Hydrogen Peroxide (H_2O_2). This will be followed by stripper, MEE & ATFD. MEE condensate will be led to ETP. The latter stream will subjected to ETP comprising of primary, secondary and tertiary treatment. Domestic effluent will be led directly into aeration tank of ETP. ETP of 40 CMD shall be provided; thus the present augmentation should involve upgradation of ETP from 15 CMD to 40 CMD. Installation of 5 CMD stripper, MEE and ATFD will also be required. In this context 11.8 CMD ETP effluent should be recycled in cooling tower and flushing.
5. The emission from 1600 kg/hr boiler and 4 kcal/ hr thermopack (FO based) shall be led to stack of height 30m. Process emissions shall be subjected to alkali/acid scrubber followed by stack of height 6m above the roof level. An outlet TPM level of $< 100 \text{ mg/Nm}^3$ should be achieved.
6. There should be 90-95% recovery of solvents. 30 % of recovered solvent may be sold to authorized vendors, and the rest should be reused. Hazardous waste shall be sent to the CHWTSDF, Mahape. Chloro compounds should not be sent to hazard management facility but should be mineralized locally and disposed of in safe manner.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the observations above (1-6).

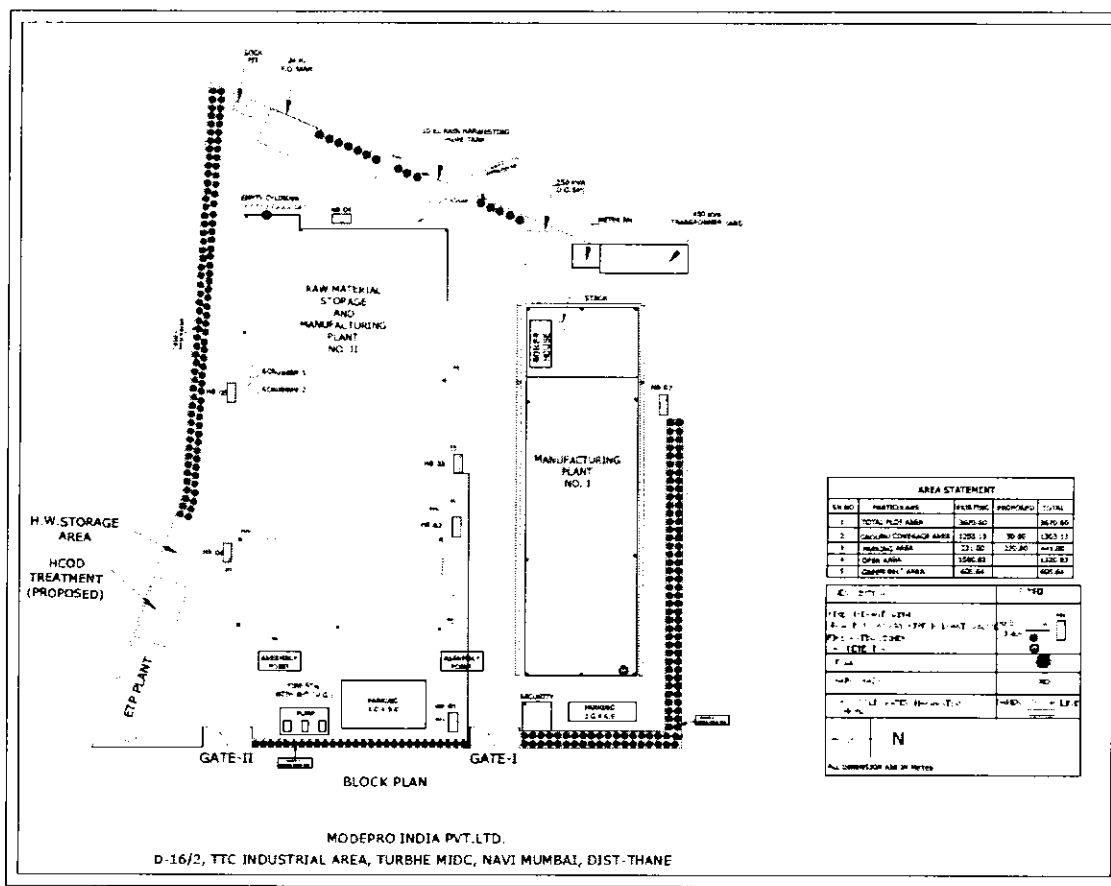


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Annexure 17.1



Item no. 18	M/s. Harmony Organics Pvt. Ltd. (ToR)
	At plot no. D-5, MIDC Kurkumbh, Taluka- Daund, Pune.

The PP made a detailed presentation for ToR pertaining to the expansion of their Synthetic Organic Manufacturing of aromatics and perfumery from 504 MT/M to 1480 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. The project shall be run as a Zero Liquid Discharge System. The EIA report may outline water balance both for wet and dry seasons. EIA report shall explain why water requirement has increased by 10 times when production is increased only by 3 times. There appears to be under estimation of water consumed/ generated in the process, and effluents generated. The current situation is not analyzed realistically, such lacunae should be avoided in the EIA Report.


Member Secretary


Chairman

2. Treatability studies should form the basis for effluent management and designing of ETP. Detailed material balance will also be considered for ETP design.
3. The PP shall recover not less than 95% solvents. Recovered solvents shall be reused and unrecovered will be sold to authorized vendors only, whose details may be given.
4. Hazardous wastes like Sodium Chloride and Sodium Sulphate is proposed to be sent to the CHWTSDf, Rajangaon [this quantum may be given.] The Committee desires that Sodium Chloride should be sent to tannery industries as raw material.
5. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

The Committee decided to **approve ToR** subject to the above observations (1-5).

Item no. 19	M/s. Harman Finochem Limited Proposed production of APIs and Bulk drugs of capacity 157.93 MT/MONTH at plot no-N-24, Additional Patalganga MIDC, Panvel, Raigad.
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The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	Harman Finochem Limited
2	Name, address, e-mail & contact number of Proponent	Mr. Bhupinder Singh Manhas 107-A, VINAY BHAVYA COMPLEX, 159 A, C.S.T.RC KALINA, SANTACRUZ (E), MUMBAI 400 098 (MS) INDIA. E-mail: bsm@harmanfinochem.com snehachavan@harmanfinochem.com Contact No.(+91 22) 6733 0214 /67330100/ 2652 8080
3	Name, of Consultant	sd engineering services pvt. ltd.,
4	Accreditation of consultant (NABET Accreditation)	Yes
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,	NA

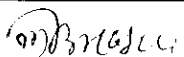



Member Secretary



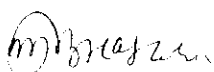
Chairman

	enclose a copy with compliance table																																																																					
7	Activity schedule in the EIA Notification	5 (f), as per the provision of "EIA Notification No. S. O. 1533 (E)" Dated 14.09.2006 amended on December, 2009.																																																																				
8	Area Details	<ul style="list-style-type: none">Total plot area (sqm.): 20.066Plant utility, storage area (sq m): 6000Parking area (sqm.) 2400Green Belt- (sqm): 6300MEE, ETP and R.O. Area(sqm): 400Tank farm area (sqm):430Road Area(sqm): 3400Open space(sqm): 1136																																																																				
9	Name of the Notified Industrial area / MIDC Area	Additional Industrial Area MIDC Patalganga, Tal. Panvel, Dist. Raigad (MS).																																																																				
10	TOR given by SEAC? (If yes then specify the meeting)	Yes (122 nd Meeting of SEAC- I on 24 th , 25 th & 26 th February 2016)																																																																				
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	Capital Cost of Project : Rs.6932.24 Laacs.																																																																				
12	Location details of the project :	Plot No. N-24, Additional Industrial Area, MIDC Patalganaga, Tal. Panvel, Dist.: Raigad (MS)																																																																				
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	The distance from Kamala Bird Sanctuary (Eco-sensitive area) to the project area is 3km in West North West direction.																																																																				
14	Production details	<table><tr><th>Name of Products</th><th>Existing (T/Month)</th><th>Proposed activity (new) (T/Month)</th><th>Total (T/month)</th></tr><tr><td>Allopurinol</td><td>Nil</td><td>10.00</td><td>10.00</td></tr><tr><td>Bisoprolol Hemifumerate</td><td>Nil</td><td>24.00</td><td>24.00</td></tr><tr><td>Chlorpheniramine Maleate</td><td>Nil</td><td>15.00</td><td>15.00</td></tr><tr><td>Divalproex Sodium</td><td>Nil</td><td>15.00</td><td>15.00</td></tr><tr><td>Fenofibrate</td><td>Nil</td><td>10.00</td><td>10.00</td></tr><tr><td>Ketamine Hydrochloride</td><td>Nil</td><td>0.83</td><td>0.83</td></tr><tr><td>Lidocaine Base</td><td>Nil</td><td>10.00</td><td>10.00</td></tr><tr><td>Lidocaine Hydrochloride</td><td>Nil</td><td>12.00</td><td>12.00</td></tr><tr><td>Methylecobalamin</td><td>Nil</td><td>0.10</td><td>0.10</td></tr><tr><td>Phenytoin</td><td>Nil</td><td>10.00</td><td>10.00</td></tr><tr><td>Phenytoin Sodium</td><td>Nil</td><td>15.00</td><td>15.00</td></tr><tr><td>Propofol</td><td>Nil</td><td>8.00</td><td>8.00</td></tr><tr><td>Salbutamol Sulphate</td><td>Nil</td><td>5.00</td><td>5.00</td></tr><tr><td>Sitagliptin Phosphate Anhydrous</td><td>Nil</td><td>2.00</td><td>2.00</td></tr><tr><td>Sitagliptin Phosphate Monohydrate</td><td>Nil</td><td>2.00</td><td>2.00</td></tr><tr><td>Valproic Acid</td><td>Nil</td><td>7.00</td><td>7.00</td></tr></table>	Name of Products	Existing (T/Month)	Proposed activity (new) (T/Month)	Total (T/month)	Allopurinol	Nil	10.00	10.00	Bisoprolol Hemifumerate	Nil	24.00	24.00	Chlorpheniramine Maleate	Nil	15.00	15.00	Divalproex Sodium	Nil	15.00	15.00	Fenofibrate	Nil	10.00	10.00	Ketamine Hydrochloride	Nil	0.83	0.83	Lidocaine Base	Nil	10.00	10.00	Lidocaine Hydrochloride	Nil	12.00	12.00	Methylecobalamin	Nil	0.10	0.10	Phenytoin	Nil	10.00	10.00	Phenytoin Sodium	Nil	15.00	15.00	Propofol	Nil	8.00	8.00	Salbutamol Sulphate	Nil	5.00	5.00	Sitagliptin Phosphate Anhydrous	Nil	2.00	2.00	Sitagliptin Phosphate Monohydrate	Nil	2.00	2.00	Valproic Acid	Nil	7.00	7.00
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Lidocaine Base	Nil	10.00	10.00																																																																			
Lidocaine Hydrochloride	Nil	12.00	12.00																																																																			
Methylecobalamin	Nil	0.10	0.10																																																																			
Phenytoin	Nil	10.00	10.00																																																																			
Phenytoin Sodium	Nil	15.00	15.00																																																																			
Propofol	Nil	8.00	8.00																																																																			
Salbutamol Sulphate	Nil	5.00	5.00																																																																			
Sitagliptin Phosphate Anhydrous	Nil	2.00	2.00																																																																			
Sitagliptin Phosphate Monohydrate	Nil	2.00	2.00																																																																			
Valproic Acid	Nil	7.00	7.00																																																																			


Member Secretary


Chairman

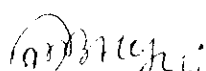
		<table><tr><td>Valsartan</td><td>Nil</td><td>12.00</td><td>12.00</td></tr><tr><td>Total</td><td></td><td>157.93</td><td>157.93</td></tr></table>	Valsartan	Nil	12.00	12.00	Total		157.93	157.93																					
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15	Rain Water Harvesting (RWH)	<ul style="list-style-type: none">• Level of the Ground water table:• Size and no of RWH tank(s) and Quantity: 100 cum (1 Tank)• Location of the RWH tank(s) : Under Ground• Size, nos of recharge pits and Quantity: Nil Budgetary allocation : Capital Cost: Rs. 10 lacs O&M Cost: Rs. 10000 /Year																													
16	Total Water Requirement	<p>Total water requirement:</p> <ul style="list-style-type: none">• Fresh water (CMD): & Source : 470M³/day source-MIDC• Recycled water (CMD): 205 <table><tr><td>Use of the water:</td><td>Existing</td><td>Proposed</td><td>Total</td></tr><tr><td>Domestic (CMD)</td><td>--</td><td>20</td><td>20</td></tr><tr><td>Ind. Cooling (CMD):</td><td></td><td>95</td><td>95</td></tr><tr><td>Boiler feed (CMD):</td><td>--</td><td>120</td><td>120</td></tr><tr><td>Industrial processing and Floor washings (CMD):</td><td>--</td><td>220</td><td>220</td></tr><tr><td>Gardening (CMD)</td><td>---</td><td>15</td><td>15</td></tr><tr><td>Total</td><td></td><td>470</td><td>470</td></tr></table>		Use of the water:	Existing	Proposed	Total	Domestic (CMD)	--	20	20	Ind. Cooling (CMD):		95	95	Boiler feed (CMD):	--	120	120	Industrial processing and Floor washings (CMD):	--	220	220	Gardening (CMD)	---	15	15	Total		470	470
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Total		470	470																												
17	Storm water drainage	<ul style="list-style-type: none">• Natural water drainage pattern: though MIDC drain• Quantity of storm water: -421 m³/day [Peak Flow]• Size of SWD: - 1.5 m² Hume pipe *150m																													
18	Sewage generation and Treatment	<ul style="list-style-type: none">• Amount of sewage generation (CMD) -18 cum/day• Proposed treatment for the sewage: SBR based STP• Capacity of the STP (CMD) (If applicable): - 25m³																													
19	Effluent characteristic	<table><tr><th>Sr. No.</th><th>Parameters (pH, BOD, COD, heavy metal, etc)</th><th>Inlet effluent Characteristic</th><th>Outlet effluent Characteristic</th><th>Effluent discharge standards (CPCB MPCB)</th></tr><tr><td>1</td><td>pH</td><td>4 to 10</td><td>7 to 8</td><td>5.5-9.0</td></tr><tr><td>2</td><td>BOD mg/lit</td><td>800 to 1000</td><td><75</td><td>100 mg/l</td></tr><tr><td>3</td><td>COD mg/lit</td><td>2000 to 2800</td><td>< 150</td><td>250 mg/l</td></tr><tr><td>4</td><td>TSS mg/lit</td><td>200 to 300</td><td><75</td><td>100 mg/l</td></tr></table>		Sr. No.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic	Outlet effluent Characteristic	Effluent discharge standards (CPCB MPCB)	1	pH	4 to 10	7 to 8	5.5-9.0	2	BOD mg/lit	800 to 1000	<75	100 mg/l	3	COD mg/lit	2000 to 2800	< 150	250 mg/l	4	TSS mg/lit	200 to 300	<75	100 mg/l			
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4	TSS mg/lit	200 to 300	<75	100 mg/l																											
20	ETP details	<p>Amount of effluent generation (CMD): Industrial 205 CMD + Domestic 18 CMD</p> <ul style="list-style-type: none">• Capacity of the ETP (CMD) : 250• Amount of treated effluent recycled (CMD):205• Membership of the CETP (If require): Available																													
21	Note on ETP technology to be used	<p>For Low COD Low TDS Stream Primary Treatment consisting of screen chamber, oil and grease trap neutralization tank, primary settling tank with chemical oxidation. 2 stage biological treatment consisting of aeration tank stage I and stage II with secondary clarifiers. Tertiary treatment consist of Pressure sand filter and activated carbon filter and reverse osmosis</p> <p>For High TDS high COD Stream Stripper, MEE & ATFD</p>																													
22	Disposal of the ETP sludge (If applicable)	To CHWTSD/ Cement Industries																													



Member Secretary


Chairman

23	Solid waste Management Non Hazardous Solid Waste <table border="1"> <tr> <th>Type of Waste</th> <th>Qty/yr</th> <th>Mode of disposal</th> </tr> <tr> <td>Boiler Ash</td> <td>2.00 T/day</td> <td>Send to CHWTSDf / Cement industry</td> </tr> </table>							Type of Waste	Qty/yr	Mode of disposal	Boiler Ash	2.00 T/day	Send to CHWTSDf / Cement industry																																		
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24	Atmospheric Emissions (Flue gas characteristics SPM, SO₂, NO_x, CO, etc.) SPM, SO ₂ , Acidic Fumes, VOC, Ammonia etc.																																														
25	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, NO_x etc. should be specified) <table border="1"> <tr> <th>Plant Section & units</th> <th>Stack No.</th> <th>Height from ground level (m)</th> <th>Internal Diameter (Top)(mm)</th> <th>Emission Rate</th> <th>Temp. Exhaust Gases</th> </tr> <tr> <td>Boiler 5 TPH (2 No.)</td> <td>1 No. (Combine for boiler 1 & 2)</td> <td>44</td> <td>850</td> <td>SO₂-8.878g/s PM₁₀-7.22g/s PM_{2.5}-2.889 g/s</td> <td>181°C</td> </tr> <tr> <td>D.G set, 1500 KVA</td> <td>1</td> <td>33</td> <td>300</td> <td>SO₂-1.167 g/s</td> <td>146°C</td> </tr> <tr> <td>Process stack/ Scrubber</td> <td>3</td> <td>25 each</td> <td>300</td> <td>--</td> <td>--</td> </tr> </table>							Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(mm)	Emission Rate	Temp. Exhaust Gases	Boiler 5 TPH (2 No.)	1 No. (Combine for boiler 1 & 2)	44	850	SO ₂ -8.878g/s PM ₁₀ -7.22g/s PM _{2.5} -2.889 g/s	181°C	D.G set, 1500 KVA	1	33	300	SO ₂ -1.167 g/s	146°C	Process stack/ Scrubber	3	25 each	300	--	--																
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Member Secretary



Chairman

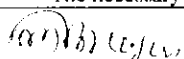
26	Details of Fuel to be used:	Sr. No	Fuel	Daily Consumption (TPID/KLD)		Calorific value (Kcals /kg)	% Ash	% Sulphur
				Existing	Proposed			
		1	Furnace Oil	--	316 kgs/hr.	10500	<0.5	4.5%
		2	Coal OR	--	650 kgs/hr. OR	5200	10	0.6%
			Briquette		800 kgs/hr	4200	5	Nil
		3	HSD	-	300lit/hr	10700	<0.5	0.7%
<ul style="list-style-type: none">• Source of fuel: Local Vendor• Mode of transportation of fuel to site: By Road								
27	Energy	Power supply: <ul style="list-style-type: none">• Proposed power requirement: 700 KW DG sets: <ul style="list-style-type: none">• Number and capacity DG sets to be used (proposed) Proposed :I No. x 1500 KVA						
28	Green Belt Development	<ul style="list-style-type: none">• Green belt area (Sq. m.): 6300 Sq. m• Number and species of trees to be planted: 110 Nos.• Number, size, age and species of trees to be cut, trees to be transplanted: None Refer Annexure V for list of trees						
29	Details of Pollution Control Systems:	Sr. No.		Existing pollution Control system		Proposed to be Installed		
		1	Air	--		Two Stage Scrubber /stack of sufficient height for process. Cyclone Followed by bag filter for boiler & stack of 44m height.		
		2	Water	--		Stripper, MEE, ATFD, ETP, RO & STP		
		3	Noise	--		Acoustic enclosure & Vibration Pads		
		4	Solid & Hazardous Waste	--		Disposal to CHWTSDF/ Cement Industry/sale		
30	Environmental Management plan Budgetary Allocation	<ul style="list-style-type: none">• Capital cost (With break up): 1013 Lacs• O&M cost (With break up): 1201 Lacs						
		Sr. No.	Particular	Recurring Cost per annum (Lacs)		Capital Cost (Lacs)		
		1	Air Pollution Control	580		485.00 (boiler (2 nos. 110 + scrubber 5 nos.- 125) DG- 140		
		2	Water Pollution Control	540		475.00(MEE +ATFD+ STRIPPER 200) (150 ETP +RO 125)		
		3	Noise Pollution Control	1		10.00 (ACOUSTIC ENCLOSURES + ANTI VIBRATION PADS)		
		4	Environment Monitoring and Management	2		10.00		

(Signature)

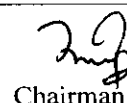
Member Secretary

(Signature)
Chairman

		5	Occupational Health and Others	3.5	8.00 (Medical check up 2.0) (FIRST AID ROOM 4.00) (Medical staff and first aid facility consumables 2.0)
		6	Green Belt	5	10
		7	Solid waste management	70	15 (Haz. & non haz. Waste storage
		8	Total	1201.50	1013
31	EIA Submitted (If yes then submit the salient features)	Yes			
32	Storage of chemicals (inflammable/explosive/hazardous/toxic substances) For the storage of chemicals HDPE Drums, MS Drums, Tanks, Warehouse and Teflon coated MS drums shall be used. Safety feature <ul style="list-style-type: none">• Flame-proof light fittings will be provided.• Nitrogen blanketing will be provided.• Work permit system will be followed.• All tanks will be provided with Lightning arrestor• Fire fighting equipment will be provided as PPE used at the time of material handling.• Earthing-bonding will be provided for static charge.• Drum handling trolley will be used for drum handling.• Identification Labels and symbols will be provided on drums.• NFPA labels will be provided on tank farm.• Dyke wall will be provided for above ground storage tank.• Level gauge will be provided.• Double drain valve will be provided.• Tanker unloading procedure, spark arrester on the silencer and earthing facility will be provided.• PPE's will be provided.• Clear distance between each tank will be minimum of half the tank diameter.• Dyke wall will be provided to the tanks. Double valve will be provided for dispensing of material.• Drainage arrangement inside the dyke will be designed for collection of leakage and recycle to the tanks or manually collecting in drums.• The tank farm layout and tank farm location will follow the rules of Petroleum Act 2003.• All the necessary statutory licenses and approvals needed for the Class A flammable liquids will be obtained.• Stainless steel pump with mechanical seal will be provided to the tank for transfer of solvents. Dedicate transfer line from storage tank to the day tank are provided to the pump with pressure gauge.• The tanks will be provided with flame arrestor and breathing valve and vent condenser wherever necessary.• Automatic sprinkler system will be installed on each tank for cooling the tanks externally and eliminate the possibility of further aggravation of the situation.• Provisions will be made to the facility for earthing the static charge generation during loading and unloading of tankers.• Metal wire Jump-over connections will be provided on transfer lines for flange connections.• The tanks will be properly connected to the earth pit.• The area will be marked with sign boards.• Day tanks will be provided in the manufacturing plants to keep the inventory to the minimum required and thus reduce potential risk.• As per the factories act, the tanks will be frequently tested to its thickness and integrity by competent person.• Fire hydrant piping will be laid around the tank farm and will be designed as per the IS and other applicable standards.• Trained fire fighters shall be provided for the site.• The area will be marked with red zone where necked flames, hot work will be strictly avoided.• Work permit system will be implemented for carrying out any hot or cold work near the tank storage area, as well as all over the factory.• Spill kits, sand buckets shall be provided. Spillage control procedure will be provided to the site.• The area will provided with 24 hr security and kept in lock and key. Eye and body shower will be provided just outside the storage.• All the tanks will be designed and fabricated as per the relevant Indian and international applicable codes.• The tank layout and tank-farm layout vis-vis factory layout will be as per the applicable Petroleum Rules 2003, for the storage of Class A Flammable chemicals.• The necessary approvals from the CCOE will be obtained.				



Member Secretary

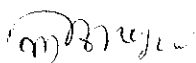

Chairman

The PP gave a detailed presentation of the EIA report on the proposal for manufacturing of APIs and bulk drugs to the extent of 157.93 MT/M. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006.

After detailed deliberations the Committee made the following observations:

1. A sub-committee has visited the site on 6.9.2016 (site visit enclosed as *Annexure 19.1*) and observed that watercourse flowing alongside of North-Eastern boundary of the plot should be trained so that it does not get contaminate with industrial effluents. PP has proposed to divert the flow through open Nalla on the South-Eastern side leading to closed conduit on south-western boundary to be connected to MIDC drain, thereby eliminating the passage of any storm water through the plant premises. The MPCB may verify the compliance of this diversion of storm water before granting Consent to Operate.
2. The PP should reserve space for parking of not less than 2400 sq. m. within the plant premises.
3. The project should be a Zero Liquid Discharge System. Effluent will be segregated into High COD/TDS and Low COD/TDS streams. The former stream will be subjected to stripper, MEE, ATFD system of capacity 100 CMD each to be followed by conventional ETP. The latter stream will be directly sent to ETP having primary, secondary and tertiary treatment processes to be followed by a RO of 205 KLD capacity. Condensate from MEE will be led to ETP and permeate from RO will be reused in cooling tower and boiler etc.
4. The PP shall ensure that Bromine (Br) or Bromine derivatives will not enter into effluent stream. Therefore, PP should eliminate use of Bromine in the process of Fenofibrate and outsource supply of alpha bromo, alpha Isobutyrate, thereby eliminating possibility of Bromine / Bromine compounds contaminating effluents/ emissions.
5. Solvent recovery should be not less than 95%. The recovered solvents shall be recycled and unrecovered solvents shall be sold to vendors authorized by MPCB.
6. The PP intends to deploy two boilers of 5TPH capacity each using FO, coal & briquettes as fuels. The flue gases shall be passed through multicyclone and bag filter followed by stack of height 45m to achieve an outlet TPM of < 100 mg/Nm³.
7. Use of Chloroform shall be avoided.
8. The PP has done detailed Risk Analysis. There is a contingency of off-site emergency; the hazard management plan shall be shared with the District Administration. The provision of hazard management facility is depicted in *Annexure 19.2*. This may be verified by the MPCB before granting Consent to Operate.

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



Member Secretary



Chairman

"Annexure 19.1"

Visit report- M/s. Harman Finocem Pvt. Ltd. At Additional MIDC
Patalganaga

Date- 6/9/2016

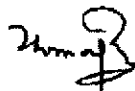
Pursuant to the decision taken in the 133rd SEAC meeting, a sub-committee comprising of following members visited the site on 6.9.2016-

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

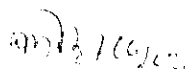
A sub-committee was accompanied by Mr. Hazare, SRO, Raigad I and the FO.

The Committee had approved the ToR for the project for the preparation of EIA report in its 108th meeting. The EIA is yet to be submitted by the PP. After detailed inspection of the premises the sub-committee made the following observations:

- I. Land is undeveloped and bounded by MIDC road, a hillock on south-western side and other undeveloped plots on north-western and south-eastern side. There is an unauthorised eatery near the road adjacent to the plot.
- II. No violations seem to have been committed. SRO reported that in Additional MIDC Patalganaga no CETP pipeline is laid to collect the effluents from individual industries after treatment. It is expected that the individual industries in Additional MIDC Patalganaga achieve Zero Liquid Discharge System.
- III. There is a watercourse flowing alongside north-eastern boundary of the plot, which is seasonal but needs to be a free unimpeded flow during monsoon. It is also necessary that Nalla should not get contaminated with industrial/domestic effluents. For this purpose it has to be closed through a conduit system across the plot.
- IV. The sub-committee further observed that run-off from the hillock can flow across unless it is properly managed through the scientifically prepared SWM system. The EIA should contain comprehensive SWM in details so as to totally segregate any impact of industrial activity.
- V. ToR for the project was approved in the month of August, 2015; more than six months has elapsed. The PP may take necessary steps to submit EIA Report without further delay.


T. C. Benjamin

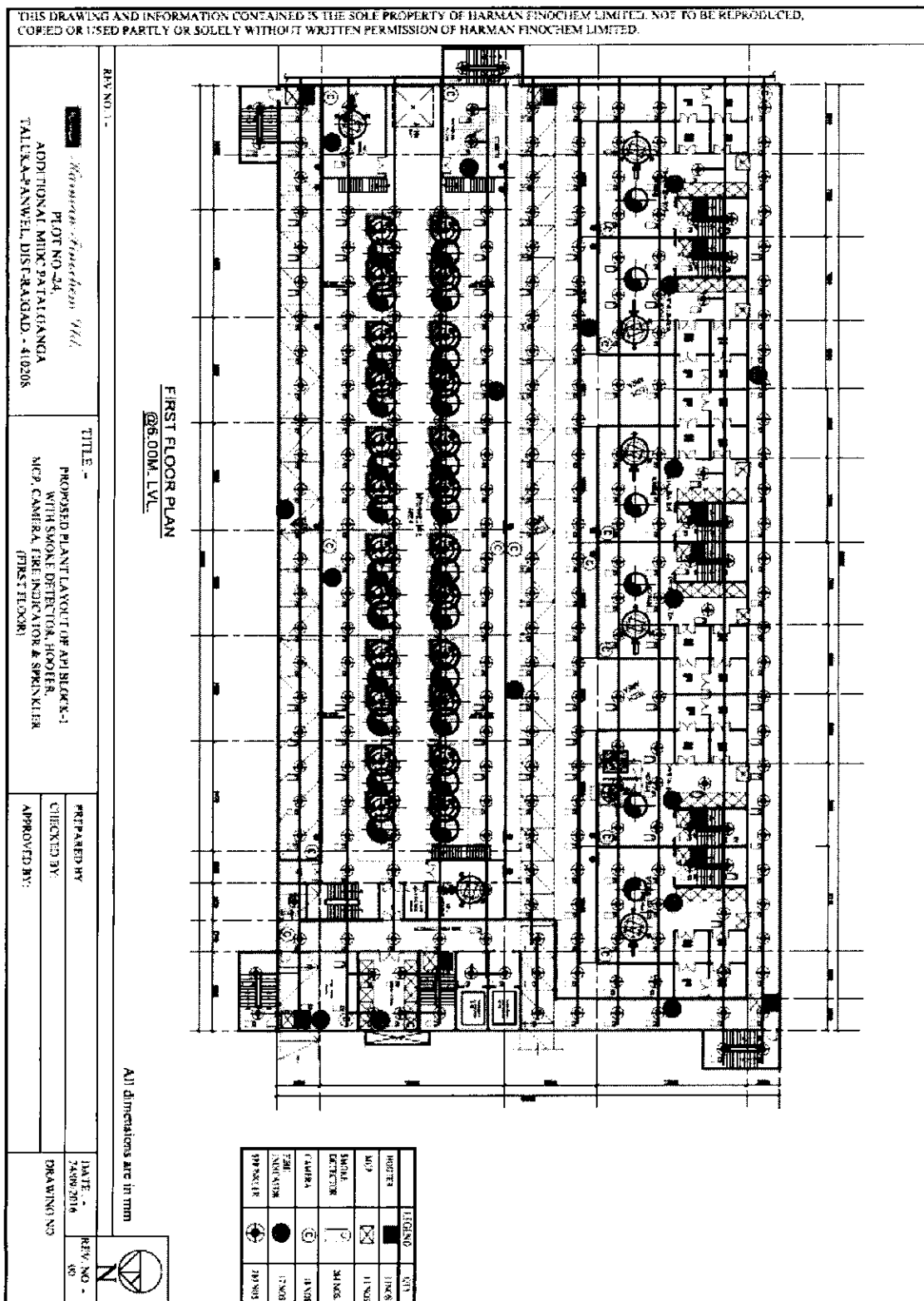

Ramesh Dod



Member Secretary


Chairman

"Annexure 19.2"



07/03/2017
Member Secretary

[Signature]
Chairman

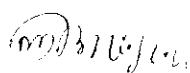
Item no. 20	M/s BEC Chemicals Pvt. Ltd. Plot No. 24, MIDC Dhatav, Roha,
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The PP gave a detailed presentation of their EIA report pertaining to their expansion of manufacturing facility from 380 MT/A to 1365 MT/A of APIs. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006. The Committee noted that the proposal was earlier considered by Central EAC on 19.1.2016 which returned it to this Committee (SEAC-I) with a remark that the proposal can be considered as 'B' category as the Draft Notification of ESA villages Western Ghat is not yet finalized. The Committee therefore decided to go with the appraisal even though the project is situated at MIDC, Dhatav; Dhatav Village being an ESA village as per the High Level Working Group report. This appraisal will be subject to the Final Notification of ESA villages.

After detailed discussion the Committee made the following observations:

1. There is a requirement of 2000 sq. m for green space which the PP cannot provide in the plant premises. Therefore the PP has proposed making good the deficit in the MIDC land in front of plant after taking sanction from the MIDC. Dust absorbing trees shall be planted in this area and around the periphery of the plant. There is a 972 sq. m deficit in parking. No on street parking should be allowed. All vehicles shall be parked inside the plant premises. Augmentation in parking space may be achieved by resorting to multilevel parking.
2. The Committee noted that the CETP at Roha was being revamped and may take some time for commissioning. Considering nature of effluents of the present project, the present expansion may be commissioned only after commissioning of CETP at Roha. Otherwise the plant should be run as a Zero Liquid Discharge System.
3. The process envisages generation of several by-products whose disposal is of prime concern. It was decided that by-products will be disposed of as per the following protocol-

S. No.	Name of by-product	Existing production	Proposed production	Mode of disposal
1.	Polyalluminium	660	1650	Sale to M/s. Vasundhara Rasayan Ltd. (which will use as raw material for the production of Aluminium hydroxide paste) who has agreed to lift the entire stock.
2.	Hydrochloric Acid (HCl)	180	450	Sale to M/s. Vasundhara Rasayan Ltd. (which will use as raw material for the production of Aluminium hydroxide paste) who has agreed to lift the entire stock.
3.	Recovered Aniline	120	150	Fully recovered and made marketable


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4.	Sodium Sulphite	250	310	The entire by-product will sold to M/s. Eureka Chemicals. It will not sent to the ETP.
5.	Acetic Acid	800	2720	Sold to authorized vendors
6.	Mixed solvents	Fully recovered	300	Sold to authorized vendors

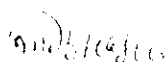
4. The effluent management will be effected by segregating the streams into High COD/TDS and Low COD/TDS. The former will be subjected to MEE of 75 CMD and then ETP of 214 m³. The latter will be led to the same ETP. Domestic sewage shall be treated in the STP of capacity 20 CMD. The PP will save 10 m³ of water through rain water harvesting.
5. The emissions from ETP will have following characteristics-

pH	7-7.5
BOD	< 100 mg/lit
COD	200-205 mg/lit
TSS	< 100 mg/lit
Oil and grease	< 10 mg/lit

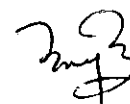
This shall be verified by MPCB before granting Consent to Operate.

6. The PP intends to add 2.5 TPH boiler to existing 1.5 TPH boiler. All will be using FO as a fuel. 1.5 TPH existing boiler will have a stack height of 30m. 2.5 TPH boiler and 1 lac kcal/hr of thermic fluid heater will have a common stack of height 30m. The PP shall achieve an outlet TPM of less than 100 mg/Nm³.
7. PP has done detailed Risk Assessment and Risk Mitigation Studies. There is a contingency of off-site emergency; the hazard management plan shall be shared with the District Administration. The Risk Mitigation Studies indicate that the production of Pentoxyphtly should be totally eliminated to eliminate storage and handling of raw materials exclusively used for this product like Thiobromine and DMF. Following Risk Mitigation measures are to be compulsorily followed-
- There should be a gate at the north-eastern side of the plant for easy evacuation. A 6m paved road should be laid on eastern boundary of the plant for vehicles to reach the Class A explosive storage.
 - NHS tank should be relocated away from HCl and located at the ETP site. The details of hazard management facility to be provided by the PP. This may be verified by the MPCB before granting Consent to Operate.

The Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. However since the project lies in an ESA village in the



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Draft Notification for ESA villages in the Western Ghats, therefore the committee decided to keep the proposal in **abeyance** till the said Notification is finalized.

Item no. 21	M/s. Vipul Organics Ltd. At plot no. T-115, MIDC Tarapur Village: Pamtembhi, Taluka- Palghar, Thane
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The brief information of the project as submitted by the PP is as follows:

1	Name of the Project	M/s. Vipul Organics Limited																														
2	Name, address, e-mail & contact number of Proponent	Mr. Vipul Shah 101, Andheri Industrial Estate, Off. Veera Desai Road, Andheri (West), Mumbai – 400053, Maharashtra, India Telephone: 022-661339999																														
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	5(f) 'B'																														
8	Area Details	Total plot area : 2,400 sq. mt. Built up area : 3,600 sq. mt. Green Belt : 410 sq. mt. Parking Area : 288 sq. mt.																														
9	Name of the Notified Industrial area / MIDC Area	Notified Industrial Area of Tarapur MIDC.																														
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)	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Particular</th><th>Cost (Rs Lakhs)</th></tr> </thead> <tbody> <tr><td>1</td><td>Land & Site Developement</td><td>100</td></tr> <tr><td>2</td><td>Building & Civil Work</td><td>175</td></tr> <tr><td>3</td><td>Plant & Machinery</td><td>450</td></tr> <tr><td>4</td><td>Computer & Office Equipments</td><td>10</td></tr> <tr><td>5</td><td>Electrical Installations</td><td>75</td></tr> <tr><td>6</td><td>Lab Equipments</td><td>40</td></tr> <tr><td>7</td><td>Furniture & Fixtures</td><td>20</td></tr> <tr><td>8</td><td>Piping</td><td>25</td></tr> <tr><td>Total</td><td></td><td>895</td></tr> </tbody> </table>	Sr. No.	Particular	Cost (Rs Lakhs)	1	Land & Site Developement	100	2	Building & Civil Work	175	3	Plant & Machinery	450	4	Computer & Office Equipments	10	5	Electrical Installations	75	6	Lab Equipments	40	7	Furniture & Fixtures	20	8	Piping	25	Total		895
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6	Lab Equipments	40																														
7	Furniture & Fixtures	20																														
8	Piping	25																														
Total		895																														
12	Location details of the project :	Latitude : Approx. 19°47'27.61"N Longitude : Approx. 72°43'13.91"E Location : Pamtembhi, Thane, Maharashtra. Tarapur MIDC Area Elevation above Mean Sea Level: 49ft																														

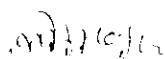
(Signature)

Member Secretary

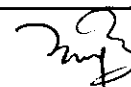
(Signature)

Chairman

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).	
SYNTHETIC ORGANIC PIGMENTS & DYESTUFFS		
Amines		
1	Different kinds of Fast Base such as Red B base, Bordeaux GP Base, etc.	
2	Di anidine base	
3	2-4-5 Trichloro Aniline	
4	2-5 Dichloro Aniline	
5	3-3 Dichloro Di Benzidine Di hydrochloride	
6	Para chloroortho nitro aniline	
7	Ortho chloro para nitro aniline	
Couplers		
8	Different kinds of Naphthols like AS, ASBO, ASD, ASOL, ASPH, ASITR, ASIRG etc.	
10	Bon Acid	
Arylides		
11	Acetoacetanilide(AAA)	
12	Acetoacetorthoanisidine(AAOA)	
13	Acetoacetortho toluidine (AAOT)	
14	Acetoacet-meta-xylidide(AAMX)	
Other Chemicals		
15	Sodium nitrite	
16	Hydrochloric acid	
17	Caustic soda flakes	
18	Acetic acid	
19	Non ionic surfactant	
20	Defoamer	
21	Activated carbon	
PIGMENT DISPERSION		
1	Organic Pigment Powder.	
2	Inorganic Pigment Powder	
3	Di-Water	
4	Glycol	
5	Non Ionic surfactant	
6	Anti settling agent.	
7	Biocides	
VAT DYES		
1	Vat Dyes in Crude form.	
2	Di water	
3	Dispersing agent.	
4	Non ionic surfactant	
5	Dissolvent powder	
NAPHTHOLS		
1	Bon Acid	
2	Amine	
3	Phosphorous Trichloride	
4	Caustic Soda Flakes	
5	Soda Ash	
6	Mono Chloro Benzene	
FAST COLOUR SALTS		
1	Fast color base	
2	Sodium Nitrite	
3	Zinc Chloride	
4	Hydrochloric Acid	
5	Common Salt	
6	Sodium Sulphate	
7	Aluminium Sulphate	
8	Ice	
INTERMEDIATES FOR DYES & PIGMENTS		

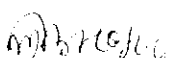


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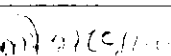
15	1	Ortho Nitro Anisole			
	2	Formaldehyde			
	3	Dichlone			
	4	Soda Ash			
	5	Caustic Soda			
	6	Catalyst 2			
	7	Common Salt			
	8	Methanol			
	9	Ice			
Production details					
SYNTHETIC ORGANIC PIGMENTS & DYESTUFFS					
Name	Colour Index	Name	Colour Index	Name	Colour Index
Yellow G	Yellow 1	Yellow FGL	Yellow 97	Red RN	Red 3
Yellow 10G	Yellow 3	Yellow 3R	Yellow 139	Signal Red	Red 4
Yellow DHG	Yellow 12	Yellow H4G	Yellow 151	Carmine FB	Red 5
Yellow GR	Yellow 13	Yellow H3G	Yellow 154	Red F4R	Red 8
Yellow 2GS	Yellow 14	Yellow HGR	Yellow 191	Bordeaux F2R	Red 12
Yellow 2G	Yellow 17	Orange RN	Orange 5	Scarlet	Red 21
Yellow RN	Yellow 63	Orange G	Orange 13	Red N	Red 22
Yellow 2GX	Yellow 74	Orange RR	Orange 16	Rose F2B	Red 23
Yellow 5GX	Yellow 74	Orange RL	Orange 34	Pink FB	Red 31
Yellow HR-02X	Yellow 83	Orange HL	Orange 36	Red Violet FB	Red 32
Yellow HR-70X	Yellow 83	Red F2R	Red 2	Red 2BD	Red 48-1
PIGMENT DISPERSION					
Name	Name	Name	Name		
Yellow FG	Brilliant Pink F3RL	Red F2R	Orange FR		
Yellow F2G	Pink FR	Red F4R	Orange FG		
Yellow F3G	Red Violet FR	Red FG3R	Orange F3R		
Yellow FR	Bordeaux FR	Red FB	Orange FGR		
Golden Yellow FR	Violet FB	Brown FBL	Blue FB		
Golden Yellow F3R	Olive Green FB	Red FGC	Blue FBG		
Green FG	Black FBB	Red FR	Navy Blue FFBC		
		Red FG	Turq.Blue FR		
VAT DYES					
Name	Colour Index	Name	Colour Index		
Yellow GCN	Yellow 2	Jade Green FFB	Green 1		
Golden Yellow RK	Orange 1	Olive Green B	Green 3		
Golden Yellow GK	Orange 4	Khakhi 2G	Green 8		
Orange GR	Orange 7	Olive R	Black 27		
Pink R	Red 1	Olive D	Black 25		
Red 6B	Red 13	Brown BR	Brown 1		
Brill. Violet RR	Violet 1	Brown R	Brown 3		
Magenta B	Violet 3	Brown RRD	Brown 5		
Blue RSN	Blue 4	Grey 3B	Black 16		
Blue BC	Blue 6	Black CH			
Dark Blue BO	Blue 20	Black BB	Green 9		
NAPTHOLS					
Name	Name	Name	Name		
AS	ASPH	ASBS	ASITR		
ASTR	ASE	ASG	ASBR		
ASBO	ASRL	ASSW	ASLB		
ASD	ASCL/ASCA	ASOL			
FAST COLOUR SALTS					
Name	Const. No.	Name	Const. No.	Name	Const.No.
BORDEAUX GP	ADC 1	SCARLET R	ADC 13	RED 1TR	ADC 42
ORANGE GC	ADC 2	SCARLET RC	ADC 13	YELLOW GC	ADC 44
SCARLET GGS	ADC 3	RED R	ADC 18	BLUE B	ADC 48
GARNET GBC	ADC 4	RED RC	ADC 18	ORANGE RD	
RED B	ADC	BLUE BB	ADC 20	BLACK K SALT	
RED TR	ADC 11	RED KB	ADC 32		
SCARLET G	ADC 12	RED RL	ADC 34		
INTERMEDIATES FOR DYES & PIGMENTS					
Name		Name			



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		<table><tr><td>Ortho-dianisidinedihydrochloride</td><td>Meta UridoAnilyne</td></tr><tr><td>Para Amino Benzamide</td><td>ITR Amine</td></tr><tr><td>2:4:5 Trichloro Aniline</td><td>K Acid</td></tr><tr><td>3:3 Dichloro Di Benzidine Di Hcl</td><td>Vinyl Sulphone</td></tr><tr><td>O.T. Base</td><td>N Methyl J Acid</td></tr><tr><td>Fast Colour Base</td><td>Gama Acid</td></tr><tr><td></td><td>H Acid</td></tr></table> <p>VDCL product portfolio comprises more than 152 products in Dyes, Intermediates & Powders</p>	Ortho-dianisidinedihydrochloride	Meta UridoAnilyne	Para Amino Benzamide	ITR Amine	2:4:5 Trichloro Aniline	K Acid	3:3 Dichloro Di Benzidine Di Hcl	Vinyl Sulphone	O.T. Base	N Methyl J Acid	Fast Colour Base	Gama Acid		H Acid																					
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16	Process details / manufacturing details	This industry is engaged in production of Dyes, Intermediates & Powders manufacturing.																																			
17	Rain Water Harvesting (RWH)	Level of Ground water table: Size & No. of RWH tanks & Qty. 1 RWH tank of capacity: 75 m ³ Location of RWH tanks: on ground level Size & no's of recharge pits & Qty.: No recharging will be done Budgetary allocation : Capital cost: 0.5 Lacs : O & M cost: 0.04 Lacs/annum																																			
18	Total Water Requirement	<u>Total water requirement:</u> Fresh water (CMD): 191.1 & Source: MIDC (Local) <u>Use of the water:</u> Process (CMD) : 95.6 Cooling water (CMD) : 1.5 Floor Washing (CMD) : 0.5 Drinking (CMD) : 3.4 Green belt (CMD) : 2 Boiler (CMD) : 48																																			
19	Storm water drainage	Natural storm water drainage pattern: No disturbance.																																			
20	Sewage generation and treatment	Amount of sewage generation : 2.7 CMD Proposed Treatment: Treated in ETP of capacity 130 CMD Capacity of STP: NA																																			
21	Effluent characteristic	<table><tr><th>S.N.</th><th>Parameters</th><th>Influent Stream</th><th>Treated effluent</th><th>Effluent Discharge Standards</th></tr><tr><td>1</td><td>pH</td><td>5.5- 7.5</td><td>7.5 to 8.0</td><td>7.5 to 8.0</td></tr><tr><td>2</td><td>TSS</td><td>100 mg/L</td><td>< 100 mg / lit.</td><td>< 100 mg / lit.</td></tr><tr><td>3</td><td>BOD</td><td>500 mg/L</td><td><100 mg / lit.</td><td><100 mg / lit.</td></tr><tr><td>4</td><td>COD</td><td>800 mg/L</td><td><250 mg / lit.</td><td><250 mg / lit.</td></tr><tr><td>5</td><td>TDS</td><td>400 mg/L</td><td><2100 mg / lit.</td><td><2100 mg / lit.</td></tr><tr><td>6</td><td>Oil and Grease</td><td>50 mg/L</td><td><10 mg / lit.</td><td><10 mg / lit.</td></tr></table> <p>ETP will be designed to achieve outlet effluent characteristics.</p>	S.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.
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22	ETP details	Amount of effluent generation (CMD) : 124.5 Capacity of the ETP (CMD) : 130 Amount of treated effluent recycled (CMD) : -- Amount of water send to the Sewer Line (CMD) : 104 Membership of the CETP (If required) : Yes																																			
23	Note on ETP technology to be used	ETP provided with Primary / Secondary / Tertiary treatment.																																			
24	Disposal of the ETP sludge (If applicable)	Hazardous waste will be sent to CHWTSDF at Taloja.																																			
25	Solid waste Management	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>12 Kg/day</td><td>Hand over to authorized reecylers</td></tr><tr><td>2</td><td>Wet Garbage</td><td>5 Kg/day</td><td>Vermi Composting (off-site)</td></tr><tr><td>3</td><td>Coal Ash</td><td>0.09 TPD</td><td>Sold to Brick Manufacturers</td></tr></table>	Sr.No	Waste	Quantity	Disposal	1	Dry Garbage	12 Kg/day	Hand over to authorized reecylers	2	Wet Garbage	5 Kg/day	Vermi Composting (off-site)	3	Coal Ash	0.09 TPD	Sold to Brick Manufacturers																			
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Member Secretary


Chairman

		<p>Hazardous Waste:</p> <table border="1"> <thead> <tr> <th>Cat.</th><th>Type of waste</th><th>Source</th><th>Qty.</th><th>Method of Disposal</th></tr> </thead> <tbody> <tr> <td>34.3 Sch - 1</td><td>ETP Sludge</td><td>ETP</td><td>5 MTM</td><td>CHWTSDF @ Taloja</td></tr> <tr> <td>28.2 Sch - 1</td><td>Spent Carbon</td><td>Manufacturing Process</td><td>0.5 MTM</td><td>CHWTSDF @ Taloja</td></tr> <tr> <td>5.1 Sch - 1</td><td>Used Lubricants</td><td>Plant & Machineries</td><td>0.5 MTM</td><td>CHWTSDF @ Taloja</td></tr> <tr> <td>33.3 Sch - 1</td><td>Used Containers (Metal & Plastic)</td><td>Raw Material Storage</td><td>100 (Nos.)</td><td>Decontamination & Re-use or sell to Scrap vendors</td></tr> <tr> <td></td><td>HDPE/ LDTE/ Gunny Bags</td><td>Raw Material Storage</td><td>1000 (Nos.)</td><td>Decontamination & Re-use or sell to Scrap vendors</td></tr> </tbody> </table> <p>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</p>	Cat.	Type of waste	Source	Qty.	Method of Disposal	34.3 Sch - 1	ETP Sludge	ETP	5 MTM	CHWTSDF @ Taloja	28.2 Sch - 1	Spent Carbon	Manufacturing Process	0.5 MTM	CHWTSDF @ Taloja	5.1 Sch - 1	Used Lubricants	Plant & Machineries	0.5 MTM	CHWTSDF @ Taloja	33.3 Sch - 1	Used Containers (Metal & Plastic)	Raw Material Storage	100 (Nos.)	Decontamination & Re-use or sell to Scrap vendors		HDPE/ LDTE/ Gunny Bags	Raw Material Storage	1000 (Nos.)	Decontamination & Re-use or sell to Scrap vendors
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26	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td><td>SPM</td><td>Boiler Chimney</td><td>0.5</td><td>150 mg/m³</td></tr> <tr> <td>2</td><td>SO₂</td><td>Boiler Chimney</td><td>2.5</td><td>400 kg/day</td></tr> </tbody> </table>	Sr. No.	Pollutant	Source of Emission	Emission Rate (kg/hr)	Concentration in flue gas (g/m ³)	1	SPM	Boiler Chimney	0.5	150 mg/m ³	2	SO ₂	Boiler Chimney	2.5	400 kg/day															
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27	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, SO ₂ , NO _x etc. should be specified	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>Boiler</td><td>1st</td><td>30</td><td>1</td><td>13500</td><td>130 °C</td></tr> <tr> <td>DG Set</td><td>2nd</td><td>3.5 above roof</td><td>0.3</td><td>3000</td><td>160 °C</td></tr> </tbody> </table>	Plant Section & units	Stack No.	Height from ground level (m)	Internal Dia. (Top) (m)	Emission Rate	Temp. of Exhaust Gases	Boiler	1st	30	1	13500	130 °C	DG Set	2nd	3.5 above roof	0.3	3000	160 °C												
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28	Details of Fuel to be used:	<table border="1"> <thead> <tr> <th>#</th><th>Fuel</th><th>Daily Consumption (TPD/KLD)</th><th>Calorific Value (Kcals/kg)</th><th>% Ash</th><th>% Sulphur</th></tr> </thead> <tbody> <tr> <td>1</td><td>Briquette (Biomass)</td><td>3 TPD</td><td>4197</td><td>2.98</td><td>-</td></tr> </tbody> </table> <p>Source of Fuel: Local Mode of transportation of fuel to site: By Road Source of Briquette: Surat and transported by covered trucks</p>	#	Fuel	Daily Consumption (TPD/KLD)	Calorific Value (Kcals/kg)	% Ash	% Sulphur	1	Briquette (Biomass)	3 TPD	4197	2.98	-																		
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1	Briquette (Biomass)	3 TPD	4197	2.98	-																											
29	Energy	<p>Power supply : From MSEDCCL - 250 kVA DG sets : 1 x 250 kVA. Renewable Source : NA</p>																														
30	Green Belt Development	<p>Green belt area (Sq. m.) : 410 sq. mt. (34.1 % of Open Area) Number and species of trees to be planted: 25 nos. Number, size, age and species of trees to be cut, trees to be transplanted: 0</p>																														
31	Details of Pollution Control Systems:	<table border="1"> <thead> <tr> <th></th><th>Existing Pollution Control System</th><th>Proposed to be Installed</th></tr> </thead> <tbody> <tr> <td>Air</td><td>--</td><td>Stack of 30m</td></tr> <tr> <td>Water</td><td>--</td><td>ETP will be provided with the capacity of 130 KLD</td></tr> </tbody> </table>		Existing Pollution Control System	Proposed to be Installed	Air	--	Stack of 30m	Water	--	ETP will be provided with the capacity of 130 KLD																					
	Existing Pollution Control System	Proposed to be Installed																														
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Water	--	ETP will be provided with the capacity of 130 KLD																														

Member Secretary

Chairman

		Noise	--	Acoustic Enclosure for DG sets. Ear mufflers and ear plugs Green Belt plantation																																				
		Solid Waste	--	Disposal to CHWTSDF Taloja. authorized recyclers/agents																																				
32	Environmental Management plan Budgetary Allocation	<table><tr><th>Sr.No</th><th>Environmental Aspect</th><th>Capital Expenditure Rs in Lacs</th><th>Recurring Expenditure Rs. in Lacs</th></tr><tr><td>1.</td><td>Emission Control and Engineering</td><td>20</td><td>4</td></tr><tr><td>2.</td><td>Water and Wastewater Management</td><td>23</td><td>4.6</td></tr><tr><td>3.</td><td>Solid Waste Management</td><td>10</td><td>2</td></tr><tr><td>4.</td><td>Greening Drive</td><td>10</td><td>2</td></tr><tr><td>5.</td><td>Process Safety Facilities and EMP</td><td>12</td><td>2.4</td></tr><tr><td>6.</td><td>Lab Equipments and Monitoring Cell</td><td>10</td><td>2</td></tr><tr><td>7.</td><td>Social Activities, Awareness Programs</td><td>5</td><td>1</td></tr><tr><td></td><td>Total</td><td>90</td><td>18</td></tr></table>			Sr.No	Environmental Aspect	Capital Expenditure Rs in Lacs	Recurring Expenditure Rs. in Lacs	1.	Emission Control and Engineering	20	4	2.	Water and Wastewater Management	23	4.6	3.	Solid Waste Management	10	2	4.	Greening Drive	10	2	5.	Process Safety Facilities and EMP	12	2.4	6.	Lab Equipments and Monitoring Cell	10	2	7.	Social Activities, Awareness Programs	5	1		Total	90	18
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	Total	90	18																																					
33	EIA Submitted (If yes then submit the salient features)	Yes																																						

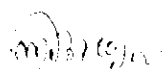
The project was considered under 5(f) – B1 category of the Schedule of the EIA Notification, 2006. The PP gave a detailed presentation of their proposal of establishing of green field project to manufacture 152 different types of dyes, intermediates & pigments totally amounting to 6096 MTPA.

After detailed discussion the Committee made the following observations:

1. The building where the plant is supposed to be operated is situated in a restricted area, which should conform to the statutory regulations of MIDC. Deficit of green belt shall be made good by utilizing a piece of land belonging to MIDC for tree plantation. There is a deficit in parking area also, PP should ensure that there should not be any on-street parking. Consent from MIDC regarding 191.1 KLD of water shall be verified by MPCB before granting Consent to Operate.
2. Product 5-Chloro ortho Toludine should be dropped from the product list.
3. The Committee insists that unless the new CETP at Tarapur is fully commissioned, the plant should be operated as a Zero Liquid Discharge system.
4. PP shall achieve solvent recovery of minimum 92%.
5. Effluent management envisages leading the composite stream comprising of process and dilute streams to the 130m³ ETP comprising of primary, secondary and tertiary effluent treatment processes to achieve following parameters-

TSS	<100 mg/lit
COD	<250 mg/lit
BOD	<100 mg/lit
TDS	< 2100 mg/lit

6. The flue gases from briquette fired 2 boilers of 3 TPH and 1 TPH capacity shall be passed through cyclone separator and bag filter to achieve an outlet TPM of < 100 mg/Nm³. Stack height shall be not less than 30m.



Member Secretary



Chairman

7. The PP shall not draw 159.1 KLD of water during monsoon and 191.1 KLD during non-monsoon season from MIDC. Rain water harvesting shall be effected through provision of an underground tank of 75m³.
8. The detailed risk assessment studies was carried out by the PP. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration. The study indicates that there is a need to separate the Formaldehyde and HCl acid tank farm from Methanol storage. The diagram showing the provision of Hazard Management facilities in the plant premises shall be submitted.

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

Item no. 22	Minor Minerals (sand) Solapur
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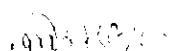
The Committee had already recommended the proposal in its 129th meeting. However, the PP has approached the Committee for reappraisal of the same proposal since there was not sufficient time for auction before the cutoff date i.e 30.9.2016. The Committee desired that a fresh report of Senior Geologist, GSDA should be obtained since changes within sand gat could have taken place due to the monsoon flow. The Senior Geologist, GSDA has submitted a new report indicating that there were no changes in configuration of the sand gat.

After detailed deliberations the Committee decided to **recommend** the following proposal for **EC** subject to the conditions given after the table:

Sr. No.	Name Of Village	Taluka	Name of the river	Clus number	Location of sand ghat (Gut No.)	Length & Breadth of Sand ghat in (m)		Area Of Sand ghats (L x B) in m ²	Total depth of sand in the block as per GSDA in (m)	Total Depth recommended by GSDA for excavation (m)	Permitted sand resources L x B x D in m ³ = Brass
						Length in (m)	Breadth in (m)				
1	ShegaonDumala-Mundhewadi	Pandharpur	Bhima	1	Shegaon.Du-284 to 290, Mundhewadi-171 to 176,293,	718	138	99084	4.00	1.80	63022

Conditions:

1. It has been clearly brought out in the site visit report that excavation will not affect *Chandrabhaga valvant* in any way. However, in the future if *Valvant* is affected in any way due to excavation, the mining should be stopped by the District Administration.



Member Secretary



Chairman

2. It is necessary to strengthen the access road from the proposed sand gat to the nearest tarred road at Village- Mundewadi. This work may be executed by the District Administration and completed at the earliest.
3. Mining should not exceed the depth of 1.8m.
4. Under no circumstance mechanical mining shall be adopted. Mining shall be done only by manual methods.
5. Migratory birds should not be disturbed during mining operation.
6. No trucks shall be parked on the river bed during mining operation.
7. **Annexure B**

Item no. 23	Minor Minerals (Stone) Kolhapur
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1. **Rosaria Rodrigues**

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**.

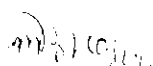
2. **Nishil Potdar-**

Previous consideration: The 114th Meeting held on 19th, 20th & 21st November, 2015

Decision: The proposals were 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)
1.	Shri. Nishil Potdar Halkarni, Chandgad	290 part	2.05 ha

The PP made a detailed presentation of stone quarrying in Village Halkarni, Taluka- Chandgad. All aspects of environmental impact were considered and found to be within limits. The PP submitted that the proposed quarry is situated at a distance of 6.2km from the Village Titwade, which appears as an ESA village in the Draft Notification of MOEF and more than 10km of Maharashtra-Karnataka boundary. The Committee is familiar with the location of the proposed quarry by virtue of an earlier visit to an industrial project at Halkarni and is aware of the general ecological features of the area. The area is reportedly frequented by elephants as a route to the nearby water bodies. Therefore the Committee desires that the Collector should obtain a report from the District Forest Officer, whether quarrying in this area would compromise the wild-life habitat and movements. For this purpose the item is **deferred**.



Member Secretary



Chairman

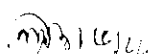
Previous consideration: The 132nd Meeting held on 4th & 5th August, 2016

S. No.	Name of the Proponent, Mouz, Taluka, Land type	Gat No./ Survey No.	Area (ha)	Observation of the Committee	Recommendations
1.	Shri. Nishil Potdar Halkarni, Chandgad	290 part	2.05 ha	The PP presented a letter from Deputy Conservator Forest, Kolhapur Forest Division, Kolhapur in which he had submitted that "area where quarry is proposed is not frequented by wild elephants though wild elephants frequent almost all the extent of Chandgad Taluka in which the quarry is situated. To get more clarity in this issue, the Chairman requested Collector Kolhapur to submit a specific and comprehensive report.	Deferred for Collector's report whether quarrying in this area would compromise the wild-life habitat and movements.

Present consideration: 135th meeting

The proposals were considered under I(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:

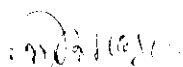
S. No.	Name of the Proponent, Mouz, Taluka, Land type	Gat No./ Survey No.	Area (ha)	Observation of the Committee	Recommendations
1.	Shri. Nishil Potdar Halkarni, Chandgad	290 part	2.05 ha	The PP produced a letter from Deputy Conservator of Forest, Kolhapur Forest Division, Kolhapur (attached as Annexure 23.2.1) which indicates that the area around the proposed quarry is neither frequented by wild elephants nor features any sources of water. The Committee had considered in its earlier meetings various parameters of Environmental Impact which were found to be within limits. The Committee again rechecked from its Google imagery that habitations, water	Recommended for EC subject to the following conditions: 1. Annexure A 2. <u>If in the future any complaint is raised regarding disturbance of wild life due to quarrying, the Collector, Kolhapur should take necessary steps to stop the quarrying.</u> The PP on its part should ensure that quarrying is done in such a way as to preserve ecological diversity of the area.



Member Secretary


Chairman

				bodies, roads and public structures were beyond 200m from the quarry.	
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Member Secretary



Chairman

"Annexure 23.2.1"



उप वनसंरक्षक, कोल्हापूर वनविभाग कोल्हापूर यांचे कार्यालय
"वनवर्धन" तारावाई पार्क, पोस्ट ऑफिस समोर, कोल्हापूर दुरध्वनी क्र. (०२३१) ६५१९५९
फॅक्स (०२३१) २६५२८०७ ई मेल : dyclkop2009@yahoo.com

क्र/कक्ष.५/वनसंवर्धन/२१०/२०१६.१७
कोल्हापूर ३, दिनांक :- ६/०९/२०१६

प्रति,

अप्पर जिल्हाधिकारी, कोल्हापूर

विषय:- मौजे हलकर्णी ता.चंदगड येथील खाणपट्टा प्रस्तावबाबत

संदर्भ :- १. जिल्हाखनिकर्म अधिकारी, कोल्हापूर कार्यालयाकडील पत्र

क्र.कार्या/६अ/आरआर/३०५१/२०१५ दि.१८.१२.२०१५

२. वनक्षेत्रपाल, पाटणे यांचेकडील पत्र क्र. अ/सर्व्हे/१३६४/१५.१६

दि. २०/०२/२०१६

३. सहा. वनसंरक्षक, (खा.कु.तो.व वन्यजीव) कोल्हापूर यांचे कडील अहवाल

क्र.१९३ अ दि. २६.०८.२०१६

उपरोक्त संदर्भांमध्ये गौण खनिजपट्टा मंजूर करणे बाबत मौ.हलकर्णी ता.चंदगड येथील मालकी गट क्र.२९० मधिल ५.२० हे.आर क्षेत्रावरील गौणखनिज उत्खननाकरीता परवानगी मिळणे बाबत श्री.निशील पोतदार, रा.बेळगांव यांनी पर्यावरण विभाग मंत्रालय मुंबई यांचेकडे सादर केलेल्या अर्जावर The State Level Expert Appraisal Committee च्या ११४ च्या क्रमांकाच्या बैठकीमध्ये उपस्थित केलेल्या चर्चेनुसार संदर्भ १ अन्वये मागणी केलेला सुधारीत अहवाल अपेक्षित असल्याने अजित क्षेत्राची फेर तपासणी अहवाल वनक्षेत्रपाल यांचे वरिष्ठ दर्जाचे अधिकारी सहा.वनसंरक्षक, (खा.कु.तो.व वन्यजीव) कोल्हापूर यांचे कडील अभिप्राय/अहवाल नुसार खालील प्रमाणे आहे.

१. मौ.हलकर्णी ता.चंदगड येथील मालकी गट क्र.२९० मधिल ५.२० हे.आर.क्षेत्रावर श्री.निशील पोतदार, रा.बेळगांव गौणखनिज उत्खननाकरीता परवानगी मागणी केलेली आहे.

२. The State Level Expert Appraisal Committee च्या ११४ च्या क्रमांकाच्या बैठकीमध्ये मुद्दा क्र.१३ उपस्थित केलेल्या चर्चेनुसार चंदगड तालुक्यात वावरणारे सदर वनहत्ती हे हलकर्णी ग.क्र. २९० चे जवळपास किंवा सदर गांवचे आसपास वनहत्तीचा वावर आढळून येत नाही.

३. मौ.हलकर्णी ता.चंदगड येथील मालकी गट क्र.२९० मध्ये जिवंत पाण्याचे स्रोत नाही.

तरी सदरचा प्रस्ताव नियमाप्रमाणे स्विकृत करण्यासाठी संदर्भ क्र.१ ते ३ अन्वये माहिती देण्यात

लेव येत आहे.

जिल्हा खनिकर्म अधिकारी,
जिल्हाधिकारी कार्यालय, कोल्हापूर

उपवनसंरक्षक,
कोल्हापूर वनविभाग कोल्हापूर

११/०९/२०१६

Member Secretary

Chairman

Item no. 24	M/s. Chemco Innovative Chemie Pvt. Ltd. (ToR) For expansion in industrial project at plot no. T-24, 25, 26-27, 39 MIDC Tarapur, Tal-Palghar, District-Palghar.
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The PP gave a detailed presentation for ToR for their proposal for expansion in dye intermediates from 33 TPM to 177 TPM. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006.

After detailed deliberations the Committee made the following observations:

1. PP should provide additional 300 sq. m for parking.
2. Stack height should be minimum of 30m.
3. Details of water balance shall be submitted.
4. Spent acid should be valorized by concentrating to 30% and sold to authorized agencies and not disposed of indiscriminately in the environment.
5. A separate chapter on Risk Assessment and Risk Management shall be included in the EIA report.
6. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

The Committee decided to **approve ToR** subject to the above observations (1-6).

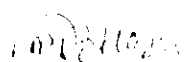
Item no. 25	M/s. Shakti Industries (ToR) For expansion in industrial project at plot no. K-2, MIDC Tarapur, Taluka-Palghar, Palghar.
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The PP gave a detailed presentation for ToR for their proposal of change in product mix in the existing chemical manufacturing unit to produce 0.96 MT/M of hormones and steroids after discontinuing 165 TPM of the existing products. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006.

After detailed deliberations the Committee made the following observations:

1. A stack of height 30m shall be provided for thermax hot water system.
2. Domestic waste shall also be treated in the ETP.
3. A detailed water balance (considering water consumption) and material balance shall be given.
4. A separate chapter on Risk Assessment and Risk Management shall be included in the EIA report.
5. The ToR shall be in accordance with the provisions contained in the Model ToR prescribed by MOEF&CC in April, 2015.

The Committee decided to **approve ToR** subject to the above observations (1-5).



Member Secretary



Chairman

Item no. 26	M/s. Clean Science and Technology Pvt Ltd. Proposed Synthetic Organic Chemical Industry at D-26/3, MIDC Kurkumbh, Daund Pune.
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The brief information of the project as submitted by the PP:

1	Name of the Project	M/s. Clean Science & Technology Pvt. Ltd. Proposed Synthetic Organic Chemical plant at located at D-26/3 MIDC, Kurkumbh, Tehsil Daund, District Pune, Maharashtra. Capacity: 24,400 MTA		
2	Name, address, e-mail & contact number of Proponent	Mr. Krishna Ramnarayan Boob Address: 503, Pentagon - P4, Magarpatta City, Hadapsar, Pune, Maharashtra. Telephone number: 020-26899953 Email ID: krishna@cleanscience.co.in		
3	Name of Consultant	Dr. S.T. Lonkar, Director-SMS Envocare Ltd.		
4	Accreditation of consultant (NABET Accreditation)	QCI-NABET Accredited (As per RA 88 th MoM dated 4 th May, 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)	NA		
7	Activity schedule in the EIA Notification	Category 'B' Project Activity No. 5(f)		
8	Area Details	Total plot area: 19,193.00 sq. m. Proposed Built Up Area: 7,790.00 Sq. m Area available for green belt: 6,603.00 sq. m.		
9	Name of the Notified Industrial area / MIDC area	D-26/3, Kurkumbh MIDC, Taluka Daund, District Pune, Maharashtra.		
10	TOR given by SEAC? (If yes then specify the meeting)	ToR Approved along with additional ToR Points on 31 st March, 2015		
11	Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)	S. No.	Fixed Assets	Proposed Amount (Rs in Lakhs)
		1	Land	68.00
		2	Building/Premises	1500.00
		3	Plant & Machinery/Equipment	5332.00
		4	Furniture & Fixture	50.00
		5	Any other movable/ immovable fixed assets	50.00
		Cost of total fixed assets		7000.00
12	Location details of the project	<ul style="list-style-type: none"> • Longitude: 18°24'4.39" N • Location: 74°31'26. 75" E • Elevation above Mean Sea Level (meters): 627.27 • Refer Annexure I : Location Plan 		
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	There are no Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries falling within the project site. Project is located in Plot No. D-26/3, Kurkumbh MIDC, Pune area.		
14	Production details	Name of Products, By products & Intermediate Products		Proposed activity (T/Year)
		Hydroquinone, Catechol & their derivatives		10000
		Butylated Hydroxy Anisole		2400
		Vanillin & their derivatives		3000

(Signature)

Member Secretary

(Signature)
Chairman

		Anisole & their derivatives		9000		
		Total		24,400		
15	Rain Water Harvesting (RWH)	Level of the ground water table • Size and no of RWH tank(s) and Quantity : NA • Location of the RWH tank(s) : NA • Size, no's of recharge pits and Quantity : 15 pits of 500 Liter capacity • Budgetary allocation (Capital cost and O&M cost): Capital Cost : 6 Lakhs, O& M Cost : 2 Lakhs.				
16	Total Water Requirement	Total water requirement: 540 CMD • Fresh water (CMD) & Source: 540 CMD from Kurkumbh MIDC Use of the water • Process (CMD): 80 • Cooling tower & boiler feed (CMD): 400 • DM Water (CMD): 20 • Drinking (CMD): 20 • Green belt (CMD): 20 • Fire service (CMD): Storage 150 m ² as an when required				
17	Storm water drainage	Natural water drainage pattern • Quantity of storm water : 273.61 CMD • Size of SWD: 18" (450mm) VCR Gutter 200 meter Length – South to North East and west to North East				
18	Sewage generation and treatment	Amount of sewage generation (CMD): 16 CMD • Proposed treatment for the sewage : ASP • Capacity of the STP (CMD) (If applicable): Combine ETP				
19	Effluent characteristic	Sr. no.	Parameters (pH, BOD, COD, heavy metal, etc)	Inlet effluent Characteristic	Outlet effluent Characteristic	Effluent discharge standards (CPCB /MPCB)
		1	pH	5	7.98	5.5 to 9.0
		2	Total Suspended Solids	~ 100	6.0	100 mg/l
		3	Total Dissolved Solids	~ 1500	1856	<2100
		4	Chemical oxygen demand (COD)	4000	200	<250
		5	Biological Oxygen Demand (BOD)	1400	65	<100
		6	Oil & grease	5-7	BDL	<10
		7	Sulphates	100	750	<1000
		8	Chlorides	150	179	<600
		9	Phenols	BDL	BDL	<0.5
		10	Free Ammonia	0.02	0.02	<0.5
20	ETP details	Amount of effluent generation (CMD): 172 • Capacity of the ETP (CMD): 250 ETP with Aerobic Treatment system : 575 m ³ , ETP with Anaerobic Treatment System : 60 m ³ • Amount of treated effluent recycled (CMD): Nil. • Amount of water send to the CETP (CMD): 172 Zero Liquid Discharge (ZLD) is proposed for ETP				
21	Disposal of the ETP sludge (If applicable)	5 T/M ETP Sludge will be send to CHWTSDF, MEPL, Ranjangaon				
22	Solid Waste Management	Sr. no	Source	Qty.	Composition	
		1	Distillation residues	3 TPM	-	
		2	Packing material & plastic waste	200 kg/m	-	
		3	ETP Sludge	5 TPM	-	


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Member Secretary

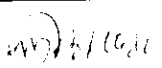
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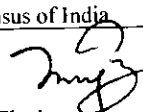
		4	Empty drum	150-200 no/m	-		
		5	Boiler Ash	50-60 TPM	-		
		• If waste(s) contain any hazardous/toxic substance/radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures. • What are the possibilities of recovery and recycling of wastes? Packaging material & plastic waste: sale to recycler Empty Drums: Sold to authorised buyers after detoxification Boiler Ash: Send to brick manufacturer Distillation Residue: Send to CHWTDF ETP Sludge: Send to CHWTDF					
-23	Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Pollutant	Source of Emission	Emission Rate (Nm ³ /hr)	Concentration in flue gas (gm/m ³)		
		SPM	Proposed new Boiler-1 (15 T/hr)	26218.3	0.098		
		SO ₂			0.0497		
		NO _x			0.068		
		CO			-		
		Others			-		
		SPM	Proposed new Thermopack -1 (10 lakhs kcal/hr)	2915.2	0.1		
		SO ₂			0.0153		
		NO _x			0.08		
		CO			-		
		Others			-		
		SPM	Proposed DG Set 700 KVA	415.72	0.068		
		SO ₂			0.021		
		NO _x			0.030		
		CO			0.018		
		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, SO ₂ , NO _x etc. should be specified	Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top) (m)
DG set-1	S-1			5.5	0.2	415.72	351
Boiler-1 – Thermo pack - 1	S-2			30.5	1.2	26218.3	353
Thermo pack - 1	S-3			30	0.8	2915.2	353
PM ₁₀ (µg/m ³)	100			<100	-		
PM _{2.5} (µg/m ³)	60			< 60	-		
SO ₂ (µg/m ³)	80			< 80	-		
NO _x (µg/m ³)	80			< 80	-		
CO(mg/m ³)	2			< 2	-		
25	Details of Fuel to be used:	Sr. No	Fuel	Daily Consumption (TPD /KLD)	Calorific Value (Kcals /kg)	% Ash	% Sulphur
		1	Gas	-	-	-	-
		2	Naphtha	-	-	-	-
		3	HSD	4 KLD (stand-by)	10700	0.01	0.2
		4	Fuel Oil	-	-	-	-
		5	Coal	40 MTD	5800	5-7	1.56

02/03/16/4
Member Secretary


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		6	Lignite	-	-	-	-
		7	Other	-	-	-	-
		Source of fuel: Local Market • Mode of transportation of fuel to site: Road Transfer					
26	Energy	Power supply: • Proposed power requirement: 700 KVA DG sets: • Number and capacity DG sets to be used Proposed one DG set of 700 KVA. Details of the non-conventional renewable energy proposed to be used : There is no use of non-conventional renewable energy					
27	Green Belt Development	Green belt area (sq. m.) : 6,603.00 • Number and species of trees to be planted: 400 nos nf trees will be planned. • Number, size, age and species of trees to be cut, trees to be Transplanted: No tree cutting and tree transplantation					
28	Details of Pollution Control Systems:	Sr. no.	Existing pollution control system			Proposed to be installed	
		1	Air	-	Mechanical dust collector, single cyclone separator, multiple cyclone separator		
		2	Water	-	ETP is provided with ZLD		
		3	Noise	-	-		
		4	Solid Waste	-	CHWTSDF, Ranjangaon /and non Packaging material sends to recycler, Distillation residue are also used as a fuel		
29	Environmental Management plan Budgetary Allocation	• Capital cost (With break up): Rs. 188.00 Lakhs • O&M cost (With break up): Rs.43.00 Lakhs					
		Sr. No.	Description			Capital Cost (Lack)	Recurring Cost per annum (Lack)
		1.	Air Pollution Control			80.0	5.0
		2.	Water Pollution Control			80.0	20.0
		3.	Environment monitoring and Management			-	3.0
		4.	Rain water Harvesting			6.0	2.0
		5.	Occupational Health			10	4.0
		6.	Green Belt			10.0	6.0
		7.	Solid waste management			2.0	3.0
		8.	Total			188	43
30	EIA Submitted (If yes then submit the salient features)	Yes: EIA/EMP Online Submitted on 31 st August, 2016 Period of data collected: March 2016 to May 2016 • Details of the primary data collection (i.e. location of the sample collection, number of visit, etc): AAQM: 8 Locations Ground Water: 7 Locations Noise: 8 Locations Soil: 8 Locations Ecology & Biodiversity: 10 Km Radius from project Socio-economic: 10 Km Radius from project • Details of the secondary data collection (i.e. Source and year of data): Meteorological Data: IMD, Pune Social data: School, Medical centers, GPs and Census of India					


Member Secretary

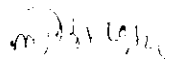

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					• Potential hazard and mitigation measures: Incorporated in EIA/EMP report • Conclusion of the EIA study : Incorporated in EIA/EMP report			
31	Storage of chemicals (inflammable/explosive/hazardous/toxic substances)							
Sr. No.	Name	Nos. of storage	Capacity	Physical and Chemical Composition	Consumption (MT/A)	Maximum Quantity of storage at any point of time	Source of Supply	Means of transportation
1	Acetone	1	16 KL	Colourless, volatile flammable, liquid, miscible with water	50	16 KL	Haresh Petrochem, Mumbai	By Road
2	H ₂ O ₂ - 60%	1	100 KL	Colourless, liquid, slightly more viscous than water. Strong oxidizer & used as a agent & disinfectant	7800	100 KL	National Peroxide Ltd. Mumbai	By Road
3	Hexane	1	16 KL	Volatile aliphatic hydrocarbon, flammable, Colorless, Liquid	150	16 KL	Sachin Chemicals Mumbai	By Road
4	MEHQ	LOT	25 kg X 400 Nos	White Solid (Flakes), Soluble in water.	1704	25 kg X 400 Nos.	Captive	Self-Product
5	Phenol	2	200 KL	Colorless liquids or white solids at room temp. More soluble in water than are alcohols and have higher boiling points.	17500	200 KL	SI group, Mumbai.	By Road
6	Anisol	2	1000 KL	Colorless liquid smells of of anise seed, insoluble, nontoxic	9000	1000 KL	Captive	Self-Product
7	Tertiary Butanol	1	50 KL	Clear liquid (odorless solid, depending on the ambient temp) with a camphor-like odor. Soluble in water and miscible with ethanol and diethyl ether.	1008	50 KL	Aki Shokai Co. Ltd., Japan.	By Sea
8	Guaiacol	LOT	200 kg X 50 Nos	Colourless Liquid	2459	200 kg X 50 Nos.	Captive	Self-Product
9	NaOH (50 %)	1	100 KL	Clear liquid	4444	100 KL	Sachin Chemical	By Road
10	CuSO ₄	LOT	25 kg X 400 Nos.	Solid. (Crystalline granules solid. Powdered solid.) Odorless. Nauseous metallic.	3492	25 kg X 400 Nos.	Indian Platinum Pvt. Ltd. Mumbai	By Road
11	DMS	1	100 KL	Liquid, colourless, stench	6300	100 KL	Aarti Industry, Boisar.	By Road
12	Glyoxylic Acid	LOT	25 kg X 400 Nos.	Solid, Obnoxious	1623	25 kg X 400 Nos.	Import	By Road
13	Ethyl Acetate	1	16 KL	Liquid, ethereal, fruity	150	16 KL	Sachin Chemical	By Road
14	Zeolite	Lot	25 kg X 200 Nos	Solid Light grey-green coloured granular and powder Smell None, earth like	10	25 kg X 200 Nos	Captive	Self-Product

The PP gave a detailed presentation of the EIA report pertaining to establishment of a green field project for the production of synthetic organic chemicals to the extent of 24400 TPA. The Committee considered the project under category 5(f)-B1 of the schedule of the EIA Notification 2006.

After detailed discussion the Committee made the following observations:

1. The project will run as a Zero Liquid Discharge Process.
2. The effluent will be segregated into 2 streams- i) high phenolic product stream will be sent to the anaerobic digester followed by ETP and ii) remaining shall be sent to the ETP of 258m³ having primary, secondary and tertiary processes. The outlet effluent of ETP shall be sent to RO & MEE of capacity 175 CMD each.


Member Secretary


Chairman

3. The PP proposes to deploy 1 boiler of capacity 12 TPH which will be coal fired and thermopack (coal) of 10lackcal/hr. Flue gases from the boilers should be passed through cyclone separator and bag filter followed by a stack of 32m height to achieve an outlet TPM of < 100 mg/Nm³.
4. The detailed presentation was made on Risk Assessment and Risk Mitigation. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration. The layout of the plot with the all hazard management facilities shall be submitted. Maharashtra Pollution Control Board (MPCB) should verify the availability of these precisions before granting Consent to Operate.

The Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The Committee therefore decided to **recommend** the project for **EC** subject to the observations (1-4) above.

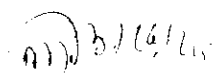
Discussion Item 2	M/s. Bharat Petroleum Corporation Ltd. [amendment in minutes] Jalgaon.
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The Committee went through the decision of the SEIAA taken in its 101st meeting held on 10th, 11th & 16th May, 2016. While agreeing with the stipulations recommended in the minutes by SEAC-I in its 122nd meeting, the SEIAA gave an additional condition as follows--"PP informed that the total water requirement is only 15 KLD and not as mentioned in the SEAC minutes that it was 4800 KLD and the capacity of ETP will be 12 CMD and not 25 CMD as indicated in the minutes of SEAC. The information given by the PP was noted. However, the PP was advised to move the SEAC-I for amendment of the minutes appropriately."

The Committee deliberated on this observation by SEIAA and made the following observations:

1. The requirement of water for the 'process' shall be 15 KLD. However, requirement of water for fire-fighting shall be 4800 KLD.
2. The requirement of 25 CMD capacity for the STP was arrived at considering the increase in effluent load due to future expansion/floating user population. However, the PP submits that the 15 CMD STP would be sufficient for the present. So the PP may construct a 15 CMD STP to cater to the present load but may make provisions for future augmentation, should the need arise.

The minutes of 122nd SEAC-I meeting may be amended to incorporate the two observation as above.



Member Secretary

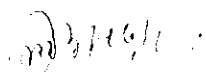


Chairman

Discussion Item	Proposed site visits
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The Committee decided to visit the following sites scheduled as follows:

1. M/s. Hindustan Electricity Generation Co. Pvt. Ltd. On 24.9.2016
2. M/s. Shri Dnyaneshwar Sahakari Sakhar Karkhana Ltd. On 28.9.2016
3. M/s. Harmony Organics Pvt. Ltd. On 1.10.2016



Member Secretary



Chairman

"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.

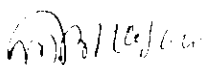
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Chairman

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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Member Secretary



Chairman

"Annexure B"

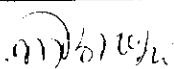
The Specific and General conditions applicable for Mining of Sand

Specific conditions:

1. Proposals are recommended for Environmental Clearance for period 2015- 2016 only.
2. Provisions stipulated in Maharashtra Minor Minerals Extraction (development and Regulation) Rules 2013 and Government Resolution of Revenue and Forest Department dated 12/03/2013.
3. District Collector and District Mining officer will be held responsible individually for non compliance of the conditions stipulated in the Environmental clearance and shall be liable for legal action under Environment (Protection) Act of 1986.
4. District Collector will take bank guarantee upto 2% of the total auction cost for the given auction period from project proponent 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.
5. The depth of sand layer to be mined, after retaining 2 m minimum layer below, should not be more than 2 meters as per Government Resolution of Revenue Department dated 12th March 2013 e.g. if the total depth of sand is 3 m, only up to one metre of sand shall be mined.
6. It shall be ensured that excavation of minor mineral does not disturb or change the underlying soil characteristics of the river bed /basin, where mining is carried out.
7. It shall be ensured that mining does not in any way disturb the turbidity, velocity and flow pattern of the river water.
8. A siltation study should be carried out before commencement of the mining activity or within a period of one year through some expert Agency like NIO/CWPRS to determine the siltation load so that there is no over exploitation of the material at any point of time. The mineral to be removed shall be determined based on siltation load. This study shall be steered by competent authority while granting further mining lease and or renewing of the license. A copy of siltation study shall be submitted to the Environment Department, the District Mining Officer and respective Regional Office of the State Pollution Control Board.
9. It shall be ensured that there is no fauna dependant on the river bed or areas close to mining for its nesting.
10. Turtle nesting units' conservation is very important. Therefore sand mining in such areas is to be prohibited.
11. The green belt development/tree plantation will be made in an area of 20% of the total leased area either on river bank or along road side.
12. Measure for prevention & control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion, if any, shall be carried-out with geo textile matting or other suitable material.
13. District Collector and Project proponent to ensure that there is no violation of the Supreme Court order and orders of the National Green Tribunal given in the related matters.

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. Depth of mining shall be restricted to 3 m or water level whichever is less.
4. No mining shall be carried out in the streams.
5. Mining shall be limited to day hours time only. The loading shall not be done during night hours.
6. No mining shall be carried out in the safety zone of any bridge and/or embankment.
7. No mining shall be carried out in the vicinity of natural/ manmade archaeological sites.
8. The lease holder shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water (surface water and groundwater), if required for the project.
9. Waste water, if any, shall be properly collected and treated so as to conform to the standards prescribed by MoEF/CPCB.
10. No wildlife habitat will be infringed.
11. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, if applicable to this project.
12. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Horticulture Officer.
13. Parking of vehicles should not be made on public places.



Member Secretary


Chairman

14. 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.
15. 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.
16. 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.
17. 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.
18. Dispensary facilities for first-aid shall be provided at site.
19. Occupational health surveillance program of the workers should be undertaken periodically.
20. 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.
21. 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.
22. Measures shall be taken for control of noise level to the limits prescribed by CPCB
23. An Environmental Audit shall be annually carried out during the operational phase and be submitted to the Environment Department.
24. 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 shall be reported to the Regional Office, Ministry of Environment and Forests, Bhopal.
25. Revenue Authorities shall submit within 3 months their policy towards address (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 ensuring compliance of EC conditions and (iii) System of reporting of non-compliance/violation of environmental norms to the District collector.
26. 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, the respective Regional Office of the Maharashtra Pollution Control Board.
27. 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).
28. SEAC 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 display 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.