भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन
मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

सत्यमेव जयते

SPEED POST
क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,
Regional Office, Western Region,
"केन्द्रीय पर्यावरण भवन"
"Kendriya Paryavaran Bhavan"
लिन्क रोड नं0-3/Link Road No. 3
E-5, रविशंकर नगर/Ravi Shankar Nagar,
भोपाल (म0प्र0)/Bhopal-462016 (M.P.)
Telefax: 0755-2465054
E-mail: rowz.bpl-mef@nic.in

File No: 5-45/2009(ENV)/166

Dated: 04/06/2018

प्रति,

श्री ज्ञानेश भारती,
संयुक्त सचिव,
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
इंदिरा पर्यावरण भवन,
जोर बाग रोड, अलीगंज,
नई दिल्ली – 110003

To,

Shri Gyanesh Bharti,
Joint Secretary,
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
NewDelhi-110003

विषय : मेसर्स डेक्कन फाइन केमिकल्स (इंडिया) प्रा. लि., (पूर्व में मेसर्स बॉएर क्राप साइन्स) के द्वारा प्लाट नं. 6008–10 & 6301–10ए, जीआईडीसी स्टेट, अंकलेश्वर, गुजरात में मौजूदा कीटनाशक इकाई में सिंथेटिक कार्बनिक रसायन उत्पाद के विनिर्माण इकाई के लिए पर्यावरणीय स्वीकृति के संबंध में ।

Sub. : Proposed synthetic organic chemical products manufacturing unit in existing pesticide unit at plot no. 6008-10 & 6301-10A, GIDC estate, Ankleshwar, Gujarat by , M/s. Deccan Fine Chemicals (India) Pvt. Ltd (Formally M/s. Bayer Crop Science) -Environmental Clearance reg.

Ref. : Ministry's Letter No. J-11011/749/2008-IA II(I) dated 08.12.2008

महोदय,

मंत्रालय के उपरोक्त निर्दिष्ट पत्र के संदर्भ में उक्त परियोजनाओं को पर्यावरणीय दृष्टिकोण से अनुमति देते समय अनुबद्ध शर्तों के अनुपालन एवं certification of compliance के निर्देशानुसार, पर्यावरणीय अनुमति दिनांक 08.12.2008 का अनुपालन प्रतिवेदन (मॉनिटरिंग रिपोर्ट) एतद् द्वारा संलग्न कर प्रेषित है।

2.0 यह सक्षम प्राधिकारी द्वारा अनुमोदित है।

भवदीय

संलग्न: उपरोक्तानुसार

G Hrcy

(डॉ. एच.वी.सी. चारी गून्टुपल्ली)
वैज्ञानिक डी

Cont.....2

प्रतिलिपि:

1. श्री शरत कुमार पल्लेरला, वैज्ञानिक 'एफ', पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली – 110 003 की ओर सूचनार्थ हेतु।
Shri Sharath Kumar Pallerla, Scientist 'F', Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, NewDelhi-110003 for kind information please.

2. डॉ. सुधीर चिन्तलपति, वैज्ञानिक 'डी', (मॉनीटरिंग सैल), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज नई दिल्ली–110 003 की ओर सूचनार्थ हेतु।
Dr. Sudheer Chintalapati, Scientist 'D', Monitoring Cell, Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi-110003 for kind information please.

3. श्री पकज डी. रनपुरा, मेसर्स डेक्कन फाइन केमिकल्स (इंडिया) प्रा. लि., प्लाट नं. 3501–3515, 6301–6313 16 & एम रोड/बी1, जीआईडीसी इण्डस्ट्रियल स्टेट, अंकलेश्वर – 393 002, जिला: भरूच, की ओर सूचनार्थ हेतु।
Shri Pankaj D. Ranpura, M/s. Deccan Fine Chemicals (India) Pvt. Ltd., Plot No. 3501-3515, 6301-6313 & 16 M Road/ B1, GIDC Industrial estate, Ankleshwar – 393002, District: Bharuch, for kind information please.

(डॉ. एच.वी.सी. चारी गुन्टुपल्ली)
वैज्ञानिक 'डी'

Monitoring the Implementation of Environmental safeguards
Ministry of Environment & Forest
Regional office (W) Bhopal
Monitoring Report
DATA SHEET

Sr. No.	Particulars	Reply
1.	Project Type :River Valley/Mining/ Industry/ Thermal/Nuclear/Other(Specify)	Industry
2.	Name of the Project	**Deccan Fine Chemicals (I) Pvt. Ltd.** (Formerly Bayer Crop Science Limited)
3.	Clearance letter (s)/OM No. and date	File no. F. No. J-11011/749/2008- IA II (I) dated 08/12/2008
4.	Location a) District b) State c) Location/Latitude/Longitude	Bharuch Gujarat Latitude:21^0 37' 26.59" Longitude: 73^{0}2' 23.23"
5.	Address for correspondence a.) Address of concerned Chief Engineer (With Pin Code & Mob. No./Telephone/ Telefax/E-mail) b) Address of concerned Project Engineer (With Pin Code & Mob. No./ Telephone/Telefax/ E-mail)	**Deccan Fine Chemicals (India) Pvt. Ltd.** Plot No. 3501-3515, 6301-6313 & 16 M Road/ B1, GIDC Industrial estate, Ankleshwar – 393002, District: Bharuch 02646 6611006 / 9099036865 **Mr. Pankaj D. Ranpura** Deccan Fine Chemicals (India) Pvt. Ltd. Plot No. 3501-3515, 6301-6313 & 16 M Road/ B1, GIDC Industrial estate, Ankleshwar – 393002, District: Bharuch 02646 6611000 / 9662028547
6.	Salient Features a.) Of the project b) Of the Environment management Plan	- Custommanufacturing unit for agrochemicals technical & intermediates - For liquid effluent unit having HTDS removal facility, Fentox facility & effluent treatment plant consisting of primary, secondary (biological) & tertiary treatment facility - For hazardous & incinerable waste unit has tie up with common TSDF facility of M/s BEIL, SEPPL & RSPL and incinerable waste being sent for co-processing at cement industries - For air emission, unit has installed scrubber at various plant, double condensers for VOC control, Aerox for vent gas treatment and 20 mbar N2 blanketing in all vessels & storage tank

<table>
<tr><th>Sr. No.</th><th>Particulars</th><th>Reply</th></tr>
<tr><td>7.</td><td>Breakup of the Project Area
a) Submerged area : forest & Non Forest

b) Others</td><td>- Unit is located in GIDC (industrial park) hence it is non-forest area

<table>
<tr><th></th><th></th><th>Total m2</th></tr>
<tr><td>A</td><td>Total plot area</td><td>76691</td></tr>
<tr><td>B</td><td>Total plinth area</td><td>20973.57</td></tr>
<tr><td>C</td><td>Total floors up area</td><td>12888.15</td></tr>
<tr><td>D</td><td>Total built up area (included floor)</td><td>33861.72</td></tr>
<tr><td>E</td><td>Total road area</td><td>12647.59</td></tr>
<tr><td>F</td><td>Total open area (Common plot)</td><td>5933.687</td></tr>
<tr><td>G</td><td>Total parking area</td><td>4369.834</td></tr>
<tr><td>H</td><td>Total Green area</td><td>25422.82</td></tr>
<tr><td>I</td><td>Total proposed plinth area</td><td>4138.5</td></tr>
</table></td></tr>
<tr><td>8.</td><td>Breakup of the project affected population with enumeration of those losing house/dwelling unit only agricultural land, both dwelling unit & agricultural land & land less labours/artisan
a) SC,ST, Adivasi
b) Others

(Pl Indicate whether these figures are based on any scientific and systematic survey carried out give details and year of survey)</td><td>- Unit is located in GIDC notified area, hence no population with enumeration of those losing house/dwelling unit only agricultural land, both dwelling unit & agricultural land & land less labours/artisan has been affected</td></tr>
<tr><td>9</td><td>Financial Detail
a) Project cost as originally revised estimates and the year of price reference

c) allocation made for environment management plan with item wise and year wise break up

c) Benefit cost ratio/internal rate of return and the year of assessment (if applicable)

d) Whether above includes the cost of environment management as shown in the above

e) Actual expenditure incurred on the project so far

f) Actual expenditure incurred on the Environment Management Plan so far</td><td>- Total project cost: Rs. 120 Cr

- Waste water (effluent treatment plant): Rs. 10.0 Cr.

- Air emission: Rs. 2.5 Cr.

- Hazardous waste: Rs. 2.0 Cr.

- Details not provided by PP

- Actual expenditure incurred on the project so far: Rs. 140 Cr.

- Waste water (effluent treatment plant): Rs. 12.9 Cr.</td></tr>
</table>

Sr. No.	Particulars	Reply
		- Air emission: Rs. 3.4 Cr. - Hazardous waste: Rs. 2.0 Cr.
10	Forest Land Requirement a) The status of approval for diversion of forest land for non forestry use b) The status of cleaning felling c) The status of compensatory afforestation, if any d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	Unit is located in GIDC. Notified area (in Industrial park) so compliance of said points is not applicable
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads) if any with quantitative information	Unit is located in GIDC. Notified area (in Industrial park) so compliance of said points is not applicable
12	Status of Construction a) Date of commencement (Actual and/or planned) b) Date of completion (Actual and/or planned)	Nov. 2010 March 2011
13	Reasons for the delay if the project is yet to start	--
14	Details of Site visit a) The dates on which the project was monitored by the MoEF & CC, Regional Office on previous occasions, (if applicable b) Date of site visits for this monitoring report	-- 11/04/2018
15	Details of correspondence with project authorities for obtaining act on plans/ information on status of compliance to safeguards other than the routine letters for logistic support for site visits. (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letter issued subsequently)	
	Date **Letter from RO**	**Date** **Letter from PA**
	11.04.2018: During the site visit, PAs have been directed to submit comprehensive compliance report	**14.05.2018** Comprehensive CR received vide letter dated 12.05.2018

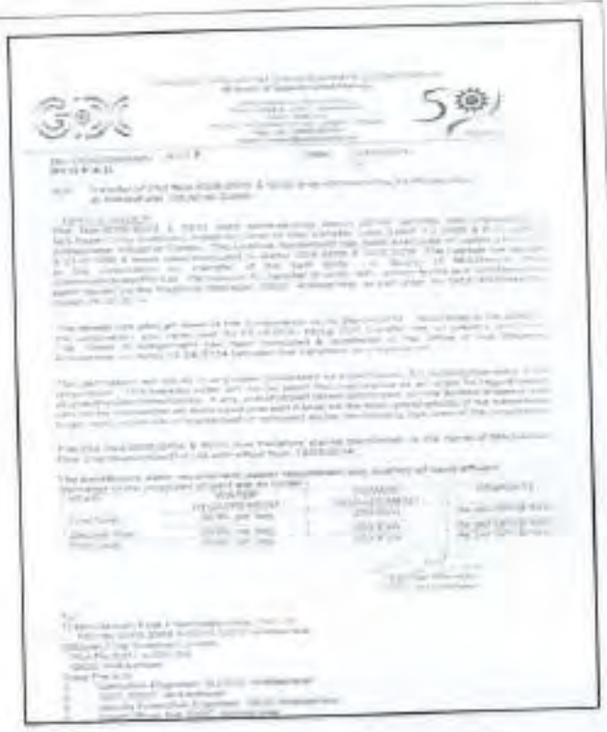
PART – II & III

DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENTAL CLEARANCE AND ENVIRONMENTAL MANAGEMENT

I. Compliance Status of Environmental Clearance for the period October 2017 to March 2018 issued by MoEF&CC, New Delhi vide letter No.: J-11011/749/2008- IA II (I)Dated: 08/12/2008

(Details of the project: Synthetic organic chemical products manufacturing unit in existing pesticide unit at Plot No. 3501-3515, 6301-6313 & 16 M Road/ B1 and Plot No. , 6008 – 6010, GIDC estate, Ankleshwar, Gujarat by M/s. Deccan Fine Chemicals (I) Pvt. Ltd. (Formerly, Bayer CropScience Limited))

Sr. No.	EC Condition	Compliance Status
7.0	The Ministry of Environment and Forests has examined your proposal. It is noted that M/s. Bayer crop science have proposed for manufacturing synthetic organic chemicals in the existing pesticide unit at GIDC estate in Ankleshwar Gujarat. It is proposed to manufacture 12000 TPA of Desmodur L 75, 12000TPA of Desmodur N 75 and 12000 TPA of Desmodur N 3390. It is also proposed to set up gas based captive cogeneration power plant of 1.4 MW capacity. Details of the products along with their production capacity are annexed. No eco-sensitive areas are located within 10 km radius of the plant. River Narmada flows at a distance of 8.25 km and river Amravati at a distance of 3.02 km. The proposed expansion will be carried out within the existing unit having land area of 94,364 m^2. Cost of the project is Rs. 120 crores.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • This unit of M/s Bayer Crop Science Limited was splited in two part i.e. organic synthetic production facility transferred to M/s Bayer Material Science Private Limited (Now known as M/s Covestro) and agrochemical production facility remains with Bayer Crop Science Limited, now known as M/s Deccan Fine Chemicals (India) Pvt. Ltd. • After spliting of the facility, change in land ownership letter along with change in plot No. from existing **6301 - 10A, GIDC Industrial estate, Ankleshwar (393002)** to **Plot No. 3501-3515, 6301-6313 & 16 M Road / B1 & plot No. 6008 – 6010, GIDC Industrial estate, Ankleshwar**received from Gujarat Industrial Development Corporation (GIDC), copy is pasted below:



- Unit has submitted online application at MoEFCC for name change from M/s Bayer CropScience Limited to M/s Deccan Fine chemicals (I) Pvt. Ltd. through vide our proposal **No. IA/GJ/IND2/73864/2008** dated 31/03/2018

- Name change letter from Gujarat Pollution Control Board along with acknowledge sheet from MoEFCC is pasted below:

- Unit located in industrial park (GIDC) so No eco-sensitive areas are located within 10 km radius of the plant. River Narmada flows at a distance of 8.25 km and river Amravati at a distance of 3.02 km
- In last five years, two times unit go for change in product mix based on "No Increase in Pollution & production Load" as per the notification dated 23rd November 2016 first in the year Feb'2014 & Jan'2016. Details of product mix is attached as **Annexure-1**, this was also inform to Ministry in six month compliance reportsubmitted in 2014, 2015, 2016 &2017 Currently, unit having valid consent from GPCB i.e. consent**No. AWH-80972** dated 16/09/2016 valid up to **11/03/2019**. The production details from Oct 2017 to March 2018 are as below:

In view of the submission by the PP, it is noted that the PP has changed the product mix by obtaining NOC from GPCB which is in line with the amended EIA notification dated 23.11.2016. However, in the absence of the said notification, the said changes in product-mix require prior permission/intimation from/to Ministry. Ministry may take an appropriate view on the above, in light of the amended EIA notification dated 23.11.2016. Therefore, the stipulated contents of EC are considered complied subject to acceptance by MoEF&CC, New Delhi.

COMPLIED SUBJECT TO ACCEPTANCE BYMOEFCC, NEW DELHI

Name of Product	October'17	Nov. '17	Dec. '17	Jan. '18	Feb. '18	Mar. '18
DS 36	–	–	1.31	29.9	33.27	41.41
Deltamethrin	0.59	–	–	–	–	–
Flumethrin	–	5.95	5.95	1.49	5.96	5.96
Benfurasate	–	–	–	–	–	–
Oxadiargyl	–	–	–	–	–	–
Permethrin	–	–	–	–	–	–
Aclonifen	332.35	343.4	350.2	320.45	288.15	7.65
DS 38	–	–	–	–	–	–
Fluopicolide	42.5	23.0	21.0	–	–	8.5
SOD	–	–	–	–	–	–
TOTAL	**375.44**	**372.35**	**378.46**	**351.84**	**327.38**	**63.52**

3.0	Water requirement of 865 m^3/d will be met from GIDC water supply. Effluent generation will be 450 m3/d. Waste water streams will be segregated according to the pollution load. Process streams will be neutralized and pretreated at plant level, and further treated in existing biological waste water treatment plant. The non process streams would be treated in existing biological waste water treatment plant. Toxic streams generated from the process will be incinerated in own incinerator. No additional process waste water will be generated due to the proposed expansion. Power requirement of 4880 KW will be met from the DGVCL/CPP. Fuel requirement will be Natural gas (24928 Nm^3/day) and lube oil (800 lts/month). To control the process emissions from the existing unit water, acid, caustic and ventury scrubbers have been provided. In the proposed unit there will be no addition of process stack or vent. Vent gas will be connected to existing incinerator plant.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following • • Entire water requirement has been fulfilled from GIDC water supply.GIDC water supply bill of February 2018 is attached as **Annexure-3** in the main report • Fresh water consumption details is given below

Month	Water Consumption per Month (Kl)	Water Consumption per day (Kl)
Oct. 2017	9239	298.0
Nov. 2017	9870	329.0
Dec. 2017	11837	381.8
Jan. 2018	13521	436.2
Feb. 2018	11912	425.4
Mar. 2018	12455	401.8

- For waste water management, we segregated all the effluent streams from source itself based on its characteristic, and it is being treated as per the characteristics as under:
  - High COD toxic (high calorific value) effluent sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli as an alternative fuel
  - High TDS effluent is being treated in MEE followed by ATFD provided in plant.

Low COD & low TDS effluent is being treated in biological ETP along with non-process stream (sewage) and finally treated effluent being sent to FETP of M/s NCT for polishing treatment & ultimate disposal into deep sea after confirming the prescribed discharge norms of GPCB

- Effluent discharged at M/s NCT is given below, which is well within the prescribed limit of 450 M3/d

Month	Quantity discharge in Month (in kl)	Average quantity per day (in Kl)	Min. discharge (kl/d)	Max. Discharg (kl/d)
Oct. 2017	4540	146.45	20.0	300.0
Nov. 2017	4716	157.2	47.0	261.00
Dec. 2017	6357	205.00	77.00	322.00

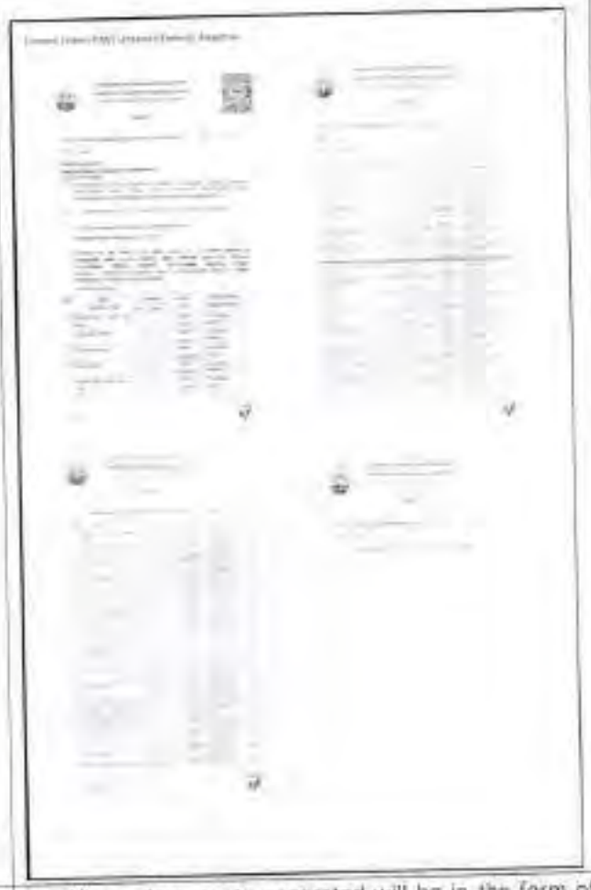
Jan. 2018	5290	170.65	57.00	279.00
Feb. 2018	5068	181.0	90.00	299.00
Mar. 2018	4837	156.03	69.00	300.00

- Unit has received letter from M/s Narmada Clean Tech (NCT) – FETP showing summary of performance of Deccan for last 5 years w.r.t. quality

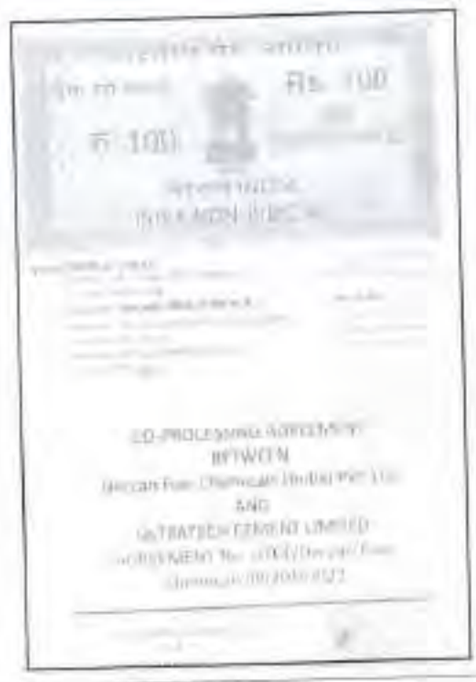
- Power requirement has been met from DGVCL & NG requirements is being fulfilled by DGCL, approval letter from DGVCL is attached as **Annexure 14** in the main report
- To control process emission, all the process vents are u/20 mbr N2 pressure & connected to three stage general scrubber i.e. acidic scrubber followed by alkali & water scrubber and for treatment of vent gases unit has installed Aerox injection system. Photograph of same is attached as **Annexure 15** in the main report.

In view of the information furnished by the PP, the stipulated contents of EC are considered complied.

COMPLIED

		
4.0	Solid/Hazardous waste generated will be in the form of used lube oil (2 T/annum) which will be sold to registered re-processors/incineration within the premises. Oil filter (0.5 T/annum), spent solvent (40 T/annum),waste from containment/cleanup of spills (18 T/annum), contaminated cotton waste containers/liners (15 T/annum), distillation waste (33 T/annum), date expired/off specification product (50 KL/annum), used liners (15 T/annum), waste from containment/cleanup of spills (2 T/annum) and flue gas cleaning residue/waste carbon (2.5 T/annum) will be incinerated within the premises. Discarded asbestos (5 T/annum), waste from surface preparation for painting (3 T/annum), waste insulation lining material (25 T/annum), ETP sludge (1200 T/annum), used PPE (2 T/annum), broken glass (5 T/annum), incineration ash (40 T/annum) and brick refractory (12 T/annum) will be disposed at BEIL- TSDF. Discarded empty containers (24000 nos/annum) will be sold to GPCB authorized vendors. Ammonium Sulphate (700 T/annum), NaSH (947 T/annum) and sulphuric Acid (350 T/annum) will be sold to end users.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Hazardous waste generates from site is being managed as per the existing consent **No.AWH-80972** dated **16/09/2016** valid up to **11/03/2019**and as per the Hazardous waste rule 2016 • Landfill waste isbeing send to common TSDF site of M/s BEIL, Ankleshwar and incinerable waste is being sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli as an alternative fuelas per the existing consent **No. AWH-80972** dated 16/09/2016 valid up to **11/03/2019**. Membership certificate of BEIL for TSDF & CHWIF is given below. • Copy of Form IV submitted to GPCB for the year 2016-2017, is attached for your ready reference as **Annexure 4**

		in the main report **In view of the information furnished by the PP, the stipulated contents of the EC is considered complied.** **COMPLIED**
	 BHARUCH ENVIRO INFRASTRUCTURE LIMITED Deccan Fine Chemicals (India) Pvt. Ltd. Sub: Membership Certificate for Common Solid Waste Disposal Facility 1600 MT/ Year for Ank/004. For BHARUCH ENVIRO INFRASTRUCTURE LTD AUTHORISED SIGNATORY	 BHARUCH ENVIRO INFRASTRUCTURE LIMITED Deccan Fine Chemicals (India) Pvt. Ltd. Sub: Membership Certificate for Common Incineration Facility 1887 MT/Year for CI/Ank/010. AUTHORISED SIGNATORY

	 RSPL Certificate To Whomsoever it may concern Recycling Solutions Private Limited	  Rs. 100 CO-PROCESSING AGREEMENT BETWEEN AND
5.0	The synthetic organic chemicals manufacturing units are listed at serial no. 5(f) of schedule of EIA Notification, 2006 and categorized under "A" or "B" depending upon the location of the plant outside or inside the notified industrial area. Since the plant is located within the GIDC notified industrial area, it is a category "B" project. But the Ankleshwar is a critically polluted area as identified by Central Pollution Control Board, hence as per general condition of EIA Notification the project has been appraised at central level. The Public Consultation for the project shall not be required as per Para 7 (i)-III. Stage (3) - Public Consultation of EIA Notification, 2006.	-- **COMPLIANCE NOT APPLICABLE TO PP**

6.0	The project was placed before the Expert Appraisal Committee (I) in the 86th meeting held during 20-22nd October, 2008. The Committee recommended the proposal for grant of environmental clearance.	– **COMPLIANCE NOT APPLICABLE TO PP**
7.0	Based on the information submitted by the project authorities, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification, dated 14th September 2006 subject to the compliance of the following Specific and General Conditions:	– **COMPLIANCE NOT APPLICABLE TO PP**
A. SPECIFIC CONDITION		
i.	The effluent generation shall not exceed 450 m^3/d. The waste water streams shall be segregated according to the pollution load. The process streams after neutralization shall be given biological treatment and the non process streams shall be treated in the biological waste water treatment plant. The toxic streams shall be incinerated in the incinerator within the plant. The treated effluent shall conform to the standards prescribed under Environment (Protection) Act, 1986 shall be discharged into CETP/FETP.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Treated waste water being sent to FETP of M/s NCT for final polishing treatment & ultimate disposal in to the deep sea, effluent discharged at M/s NCT is given below indicating that, discharge quantity is well within the prescribed limit of 450 M3/d.

Month	Quantity discharge in Month (in kl)	Average quantity per day (in kl)	Min. discharge (kl/d)	Max. Discharge (kl/d)
Oct. 2017	4540	146.45	20.0	300.0
Nov. 2017	4716	157.2	47.0	261.00
Dec. 2017	6357	205.06	27.00	322.00
Jan. 2018	5290	170.65	57.00	279.00
Feb. 2018	5068	181.0	30.00	299.00
Mar. 2018	4837	156.03	39.00	300.00

• For waste water management, we segregated all the effluent streams from source itself based on its characteristic, and it is being treated as per the characteristics as under:

High COD toxic (high calorific value) effluent sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli

- High TDS effluent is being treated in MEE followed by ATFD

- Low COD & low TDS effluent is being treated in biological ETP along with non-process (sewage) effluent and finally treated effluent being sent to FETP of M/s NCT for polishing treatment & ultimate disposal into deep sea after confirming the prescribed discharge norms of GPCB.

- Unit has received letter from M/s Narmada Clean Tech (NCT) – FETP showing summary of performance of Deccan for last 5 years w.r.t. quality which is well within the prescribed discharge norms of GPCB

		In view of the information furnished by the PP, the stipulated condition is considered complied. COMPLIED
ii.	GPCB shall not permit any new discharges from new industries or expansion of existing industries in the area that lead to CETP till the said CETP/FETP meet the required standards and have adequate hydraulic capacities.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: Compliance of the said condition pertains to GPCB, hence not applicable to us.

		In view of the information furnished by the PP, the stipulated condition is considered not applicable to PP. **COMPLIANCE NOT APPLICABLE TO PP**
iii.	The gaseous emissions (SO_2, NO_x, VOC and HC) along with SPM and RSPM from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Unit have provided standby scrubber system for control of process emission. However, if failure of APCM occurs, manufacturing activities is being stopped in emergency &not restarted until the control measures are rectified to achieve the desired efficiency • Stacks monitoring for boiler stack &process stacks being carried out on monthly basis by GPCB approved third party and result being communicated to pollution control board on monthly basis. • Stack monitoring is being carried out by M/s Precitech Laboratories Pvt. Ltd. It is also a MoEF recognized laboratory (valid up to 08/02/2022 vide notification no. S.O. 388(E), dtd. 10/02/2017) and an NABL accredited laboratory (certificate no. is TC-5049, issue date 27/02/2017 & validity until 26/02/2019). • Copy of utility & process stack monitoring report is attached as **Annexure 6**.In addition to that unit has provided dump tank connected to emergency release valve to avoid accidental release of gaseous emission atmosphere • Summary of stack monitoring is given below **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Parameter	Limit	Unit	Boiler			AC-I Scrubber			AC-II Scrubber			AC-III Scrubber		
			AVG.	MIN	MAX	AVG	MIN	MAX.	AVG	MIN	MAX	AVG	MIN	MAX
PM	150	mg/Nm³	14	11	16	–	–	–	–	–	–	–	–	–
SO_x	100	ppm	8	6	9	–	–	–	–	–	–	–	–	–
NO_x	50	ppm	6	5	7	–	–	–	–	–	–	–	–	–
HC	20	mg/Nm³	–	–	–	BDL	BDL	BDL	14	BDL	16	13	BDL	13.7

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iv.	The process emissions shall be scrubbed with acid, caustic and ventury scrubber. The vent gas shall be connected to incinerator plant for incineration.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • To control process emission, all the process vents are u/20 mbr N2 pressure & connected to three stage general scrubber i.e. acidic scrubber followed by alkali & water scrubber diagram of same is attached as **Annexure 5 in the main report**. • For treatment of vent gases unit has installed Aerox injection system. Photograph of same is attached as **Annexure 15 in the main report**

		In view of the information furnished by the PP, the stipulated condition is considered complied. **COMPLIED**
v.	The gaseous emissions from the DG sets shall be dispersed through stack height as per CPCB standards. Acoustic enclosures shall be provided to mitigate the noise pollution.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • As per the CPCB guidelines, by using the equation viz. Stack height = 14*(Q) ^0.3 (where, Q is the emission rate of SO_2 in kg/hr.) and considering the emission factor of SO_2, the stack height required is 13.21 meter. However, we have provided the individual stack height of 20 meter. • To Control nose pollution acoustic enclosure are provided. DG set is kept as a stand by arrangement. • Regular in-house noise monitoring is carried out. Noise monitoring results is attached as **Annexure-12 in the main report**.Summary of Noise monitoring is given below. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Plant	Limit	Avg.	Min	Max
AC-I	75dBA	68.8	59.1	73.9
Near ETP Plant	75dBA	68.0	65.0	74.0
AC-II A/B	75dBA	70.9	64.0	72.5
AC-III	75dBA	65.8	55.7	68.3
Utility Area	75dBA	70.5	68.1	72.3
AC-V	75dBA	73.2	70.1	74.5
SL & OMP Ware House	75dBA	67.8	55.4	71.7

vi.	The unit shall carry out monitoring of VOC in the work zone and data submitted to the Ministry/State Pollution Control Board.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Workplace monitoring is done by Precitech Laboratories Pvt. Ltd. It is aMoEF recognized laboratory (valid up to 08/02/2022 vide notification no. S.O. 388(E), dtd. 10/02/2017) and an NABL accredited laboratory (certificate no. is TC-5049, issue date 27/02/2017 & validity until 26/02/2019). • Workplace monitoring report is attached as **Annexure-7 in the main report.**The result of workplace monitoring is as below: Work Place Air Monitoring No. | Parameter | Unit | Limit | SL,AC-II Plant First Floor (W Charging Area) | SL,AC-II Plant First Floor Near Ball Mill Reactor 1 | Heavy Organic VOC | ppm | – | (i) | (ii) Monitoring Date: 12.2018 **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
vii.	The company shall obtain Authorization for collection,	Project Proponent vide letter dated 12.05.2018 received in

	storage and disposal of hazardous waste under the Hazardous Waste (Management and Handling) Rules, 2003 for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire-fighting facilities in case of emergency.	MOEF&CC, RO Bhopal on 14.05.2018 submitted the following • Hazardous waste generates from site is being managed as per the existing consent No. AWH-80972 dated 16/09/2016 valid up to 11/03/2019 and as per the Hazardous waste rule 2016, CC&A copy is attached as **Annexure-2 in the main report.** • Copy of **Form IV** submitted to GPCB for the year 2017, is attached for your ready reference as **Annexure 4 in the main report** • As a part of firefighting measures, we have fixed fire hydrant system with FH stand point, foam monitoring system & sprinkler system. Further we have also provided sufficient nos of portable fire extinguisher in all technical &non-technical areas.The layout plan of hydrant system and photographs of fire hydrant system is attached as Annexure -8 **in the main report** **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
vii	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by GPCB.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Workplace monitoring for fugitive emission is being carried out by M/s Precitech Laboratories Pvt. Ltd. It is aMoEF recognized laboratory (valid up to 08/02/2022 vide notification no. S.O. 388(E), dtd. 10/02/2017) and an NABL accredited laboratory (certificate no. is TC-5049, Issue date 27/02/2017 & validity until 26/02/2019). • Workplace monitoring report is attached as **Annexure-7 in the main report.** **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
ix	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N2 blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • All the storage tanks & process vessels are under 20 mbar nitrogen blanketing system to avoid accidental release of emission in atmosphere. • All the operations are being carried out in close system as plans are DCS based. To avoid leakage from flange joint – flange guard are provided. For fugitive emission from pump / agitators – double mechanical seal has been provided. • Double condensers i.e. primary cooling condenser is followed by secondary brine condensers are provided to recovery system and storage tanks of low boilers. This

		condensers are also provided with interlock between utility supply in condensers & steam supply to vessel. Diagram of 20 mbar N2 system, double condensers system and interlock are attached as **Annexure 16 in the main report** **In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarity on the availability of solvent traps.** COMPLIED SUBJECT TO CONDITION •
x	All venting equipment shall have vapor recovery system. All the pumps and other equipment's where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Provision for immediate isolation of such equipment, in case of a leakage will also be made. The company shall provide a well-defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Double condensers i.e. primary cooling condenser is followed by secondary brine condensers are provided to recovery system and storage tanks of low boilers. This condensers are also provided with interlock between utility supply in condensers & steam supply to vessel / reactor. Diagram of 20 mbar N2 system, double condensers system and interlock are attached as **Annexure 16 in the main report** • For early detection of HC leakage, unit has provided HC detector as a LDAR and unit also have handy PID meter to monitor HC. • Unit has provided dump tank as an immediate measure for isolation of equipment in case of leakage. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarity on the availability of LEL indicators and the provision of LDAR programme.** COMPLIED SUBJECT TO CONDITION
xi.	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • During transfer of material spillage has been avoided & garland drains are constructed to avoid mixing of accidental spillages with domestic waste and storm drains. **In view of the information furnished by the PP, the stipulated condition is considered complied.** COMPLIED
xii.	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Funds allocated for implementation of environmental management/ pollution control measures are not be diverted for any other purposes. The environmental

Funds expenditure for last three years are as under: (the capital expenditure are approximate Rs. 1830 lacs from 2008 to 2016 for upgaradation of EMS)

Year	Capital Expenditures (Rs. in Lacs)	Revenue Expenditures (Rs. in Lacs)			
		Waste Water	Hazardous Waste	Air	Total
2015-2016		196.37	159.93	15.84	372.14
2016-2017		155.44	239.3	31.63	426.37
2017-2018	1,782.78	159.67	338.31	15.46	513.44

In view of the information furnished by the PP, the stipulated condition is considered complied.

COMPLIED

xiii Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following:

- The company is regularly monitoring health surveillance of all the employees on a yearly basis and necessary records are being maintained. Last medical checkup for all company & contract employees has been carried out in **Nov. 2017** and total **317 Nos.** of employees has been covered i.e. 100% employees were covered.
- Tests undertaken during the health survey are Pulse, BP high, BH low, HB, WBC, RBC, ESR, Alkaline phos., ECG Report etc. No employees has been found with any occupational abnormalities
- The sample summary for occupational health along with details of tests undertaken during the health survey is attached as bellow.

In view of the information furnished by the PP, the stipulated condition is considered complied.

COMPLIED

Name	Age	Blood Pressure	Pulse	HB	WBC	RBC	Retic Count	ESR	Alkaline Phos.	PCV	ECG Report
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

xiv The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following:

- As a part of firefighting measures, we have fixed fire hydrant system with FH stand point, foam monitoring system & sprinkler system. Further we have also provided sufficient nos of portable fire extinguisher in all technical & non-technical areas.The layout plan of hydrant system is attached as **Annexure -8 in the main**

		report. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xv.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Company has made training calendar on various safety, health & environment topics such a way that all the employees covered in each topics. Training calender has been made for each department with target to give average 24 hours training to each employee, training calender for 2018 (QHSE dept.) is attached below: **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Annual Training Calendar (QHSE Department) for 2018

Sr. No.	Training Topics	No. of Employees	Training Hrs.	No. of Programs	Responsibility	Quarter Month	Faculty	Method of Evaluation
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

xvi.	Usage of PPEs by all employees/ workers shall be ensured.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: The following PPE's are provided to the employees/workers and it's usage ensured: • Safety Helmet -**Mandatory** • Safety Shoes - **Mandatory** • Hand gloves (cotton, leather, rubber) - **During operation** • Safety Goggles - **Mandatory** • Working dress - **Mandatory** **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xvii.	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • We followed all the recommendations mentioned in the

		Charter on Corporate Responsibility for Environmental Protection (CREP). We are regularly submitting compliance report of CREP guidelines to GPCB. The acknowledgement copy of same is attached as **Annexure-9 in the main report**.CREP requirements are given in below table with its compliance **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Requirement of CREP	Status as on 31st March 2018
1. Segregation of Waste Streams	
Waste streams should be segregated into high COD waste, toxic waste, low COD waste, inorganic waste etc. for the purpose of providing appropriate treatment- implementation by June 2003 and action plan to be submitted to SPCB, immediately.	Waste streams are segregated into high COD stream, high TDS stream, Low TDS & low COD streams. - High COD (high calorific value) effluent sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Pandi - High TDS effluent is being treated in MEE followed by ATFD - Low COD & low TDS effluent is being treated in biological ETP along with non-process effluent and finally treated effluent being sent to FETP of M/s NCT for polishing treatment & ultimate disposal into deep sea after confirming the prescribed discharge norms of GPCB. Pl. find the below letter received from M/s NCT for quality compliance for last 5 year
2. Detoxification and Treatment of high COD waste Streams	
Streams should be detoxified and treated in ETP or thermally destroyed in incinerator, as per CPCB guidelines. The waste streams should be treated suitably before taking to evaporation ponds - implementation by June 2004 and action plan to be submitted to SPCB by June 2003.	Waste streams are segregated into high COD stream, high TDS stream, Low TDS & low COD streams. - High COD (high calorific value) effluent sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to [illegible] not - High TDS effluent is being treate[illegible]ved by ATFD - Low COD & low TDS effluent is being treated in biological ETP and finally treated effluent being sent to FETP of M/s NCT for polishing treatment & ultimate disposal into deep sea after confirming the prescribed discharge norms of GPCB.
3. Improvement in Solvent recovery	
a) Solvent recovery should be improved and attempts to be made to achieve at least 90% recovery wherever possible - implementation by Dec. 2003 and action plan to be submitted to SPCB by June 2003.	- Solvent recovery is more than 98%. During transfer of material spillage has been avoided & garland drains are constructed to avoid mixing of accidental spillages with domestic waste and

	storm drains. Site has taken several initiative to control VOC emission, for detail please refer **Annexure 16**
b. Rest of the solvents which cannot be recovered shall be incinerated. Implementation by Dec. 2003 and action plan to be submitted to SPCB by June 2003.	– Presently spent solvents are incinerated or being sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli.
4.By - product recovery and utilization	
As by-product are not being recovered fully, industry will make an effort torecover by- product as far as possible. Implementation by March 2004 and action plan to be submitted to SPCB by June 2003.	– There is no by product generation in existing product profile
5. Hazardous air pollutant control	
For air pollution control from processes, scrubber efficiency will improved and maintained as per the best practicable technology For control of HCl, Cl_2, Methyl Chloride, Phosphorus Pentoxide, Ammonia, H_2S and Volatile organic carbon (VOCs). Implementation by December 2004 and action plan to be submitted to SPCB by June 2003.	Monitoring of process/scrubbers vents are carried out and reports are being submitted to GPCB on monthly basis. The summary of stack monitoring for the month of Oct'17 to March'18 are as below – [illegible]
An incinerator will be installed, where necessary implementation by December 2004 and action plan to be submitted to SPCB by June 2003.	Incinerator plant is Available at Site, however site has started to send incinerable waste for co-processing at cement industries as a part of resource conservation
6. Control of Fugitive emissions / VOCs	
For control of fugitive emissions (particularly for hazardous air pollution), the industries will adopt standard engineering practices, system of leak detection and repair (LDAR) programme especially for solvent, should be developed by industries -Implementation by March 2004 and action plan to be submitted to SPCB by June 2003.	Work Area Monitoring programme being followed to monitor the fugitive emissions and work place monitoring during chemical handling. The results of workplace monitoring for the month of Oct'17 to March'18 are as below – [illegible] – Presently site is not using any odours chemical, however all the systems for fugitive emission control are in place – Site has taken several initiative to control fugitive emission.
7. Up-gradation of Incinerators	
Incinerators will be upgraded to meet CPCB norms for hazardous waste incinerators. This is necessary for Halogenated compound and POPs -Implementation target will be decide on the basis of action plan submitted individual industries by June 2003.	Incinerator plant is Available at Site, presently site has started to send high COD (high calorific value) effluent sent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli.
8. Replacement of Bio assay test by Toxicity Factor	

	The present bio-assay test will be replaced by Toxicity Factor test methodoeveloped by CPCB. Toxicity factor of four (TF-4) will be achieved by December 2003 and industries will improve their system to achieve TF-2 by July, 2006. TF test method will be implemented by SPCBs/ MoEF- Submission of action plan by June 2003. The Central Pollution Control Board will organize work-shops on "Toxicity Factor" for industry.	Toxicity Factor test method implemented. Toxicity test is carried out at frequent interval and test report are recorded. The summary of toxicity factor for the month of Oct'17 to March'18 are as below – Month / Period / Toxicity Oct'17: 11 to 10 TF-4; 11 to 20 TF-4; 21 to 31 TF-4 Nov'17: 11 to 10 TF-4; 11 to 20 TF-4; 21 to 28 TF-4 Dec'17: 11 to 10 TF-4; 11 to 20 TF-4; 21 to 31 TF-4 Jan'18: 11 to 10 TF-4; 11 to 20 TF-4; 21 to 31 TF-4
	9. Minimum scale of production to afford cost of pollution load	
	To be decided, as industries view point is that this cannot be done as few products are costly and made in small volume. The matter will be studied in detail by MoEF/ CPCB.	Not Applicable
	Non-Complying units (as identified by SPCB) should meet the notified Standards by December 2003. – Bank guarantee to be submitted to SPCB by non-Complying units by June 2003.The submissions from pesticides industry regarding clearance and others will be considered by MoEF/CPCB for examination.	Not Applicable
xviii	The company shall adopt waste minimization /cleaner production techniques to reduce the pollution load and action plan in this regard submitted to the Ministry.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • As a part of waste minimization, company has started to send high COD (high calorific value) effluent for co-processing at M/s Ultratech Cement, Rajasthan or incinerated at common incineration facility of M/s SEPPL, Dahej or M/s BEIL, Ankleshwar or to be sent to M/s RSPL, Panoli. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xix	The company shall undertake rainwater harvesting measures to recharge the ground water as well as reduced consumption of water.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • During rainy season, water from roof catchment of ware house, will be passing through send filter and then to be collected in intermediated water storage tank located near ware house. From this water storage tank, water is being pumped to main storage tank after confirm the quality. • Every time, first flush to be drain before start the collection in intermediate tank. • Rain water harvesting details is attached as <u>Annexure-10 in the main report</u>. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

xx	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be maneged so that there is no impact on the surrounding environment	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • The unit is in operational phase. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarification on the compliance of contents of the stipulated condition during the construction phase.** COMPLIED SUBJECT TO CONDITION
B. GENERAL CONDITION		
i	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • The company is committed to follow all statutory requirements stipulated by SPCB/state government in vide consent order No. **AWH-80972** dated 16/09/2016 valid up to **11/03/2019**. Copy of CC&A compliance report is attached as **Annexure 17 and also pasted in point No. vii** **In view of the information furnished by the PP alongwith the detailed compliance report of CCA, the stipulated condition is considered complied.** COMPLIED
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • We assure that no further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. • There are no deviations or alterations in the project proposal. **In view of the information furnished by the PP, the stipulated condition is considered complied.** COMPLIED
iii	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Hazardous waste generates from site is being managed as per the existing consent No. **AWH-80972** dated 16/09/2016 valid up to **11/03/2019** and as per the Hazardous waste rule 2016, CC&A copy is attached as **Annexure-2 in the main report.**

		• Unit has valid storage license of hazardous chemicals from CCOE & local authority as given below. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
iv.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Ambient Air Monitoring station has been setup within premises and Ambient Air monitoring is done by Precitech Laboratories Pvt. Ltd. It is a MoEF recognized laboratory (valid up to 08/02/2022 vide notification no. S.O. 388(E), dtd. 10/02/2017) and an NABL accredited laboratory (certificate no. is TC 5049, Issue date 27/02/2017 & validity until 26/02/2019). Report for the same are attached separately as **Annexure-11 in the main report** • Ambient Air Monitoring monthlysummary is given below. **In view of the information furnished by the PP and as**

		all the parameters are falling below the stipulated standards, the stipulated condition is considered complied. COMPLIED

Parameter	NAAQS Limit	Unit	Near ETP Plant			Outside production area		
			AVG	MIN	MAX	AVG	MIN	MAX
PM_{10}	100	µg/m³	93	90	96	90	78	97
$PM_{2.5}$	60	µg/m³	52	41	57	45	36	56
SOx	80	µg/m³	28	25	30	27	25	28
NOx	80	µg/m³	23	26	21	24	14	34
HCl	200	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL
Chlorine	100	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL
Hydrocarbon	160	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL
Hydrogen Sulphide	500	µg/m³	BDL	BDL	BDL	BDL	BDL	BDL
Ammonia	400	µg/m³	8	5.6	15	7.4	5.8	9.4

October'17 to March'18 monthly Summary

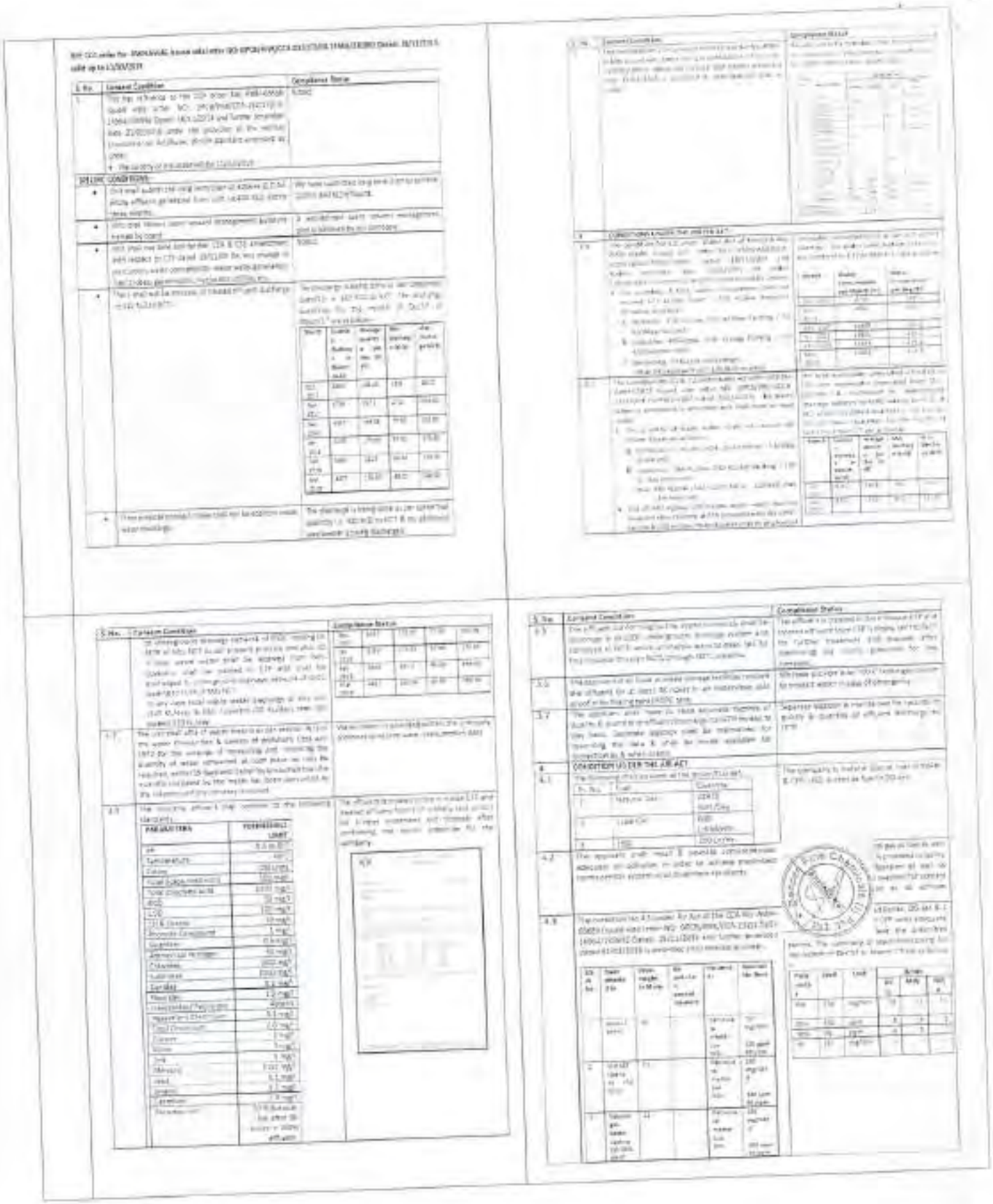
v.	For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Caustic & water scrubbers are provided to control process emissions. Process stack monitoring report attached as **Annexure 6 in the main report.** • Process stack monitoring summary is given below. **In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarity on the heights of the stacks provided with each of the process units and the treatment process for the scrubbed water.** **COMPLIED SUBJECT TO CONDITION**

Parameter	Limit	Unit	Boiler			AC-I Scrubber			AC-II Scrubber			AC-III Scrubber		
			AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX
PM	150	mg/Nm³	14	11	16	–	–	–	–	–	–	–	–	–
SOx	100	ppm	8	6	9	–	–	–	–	–	–	–	–	–
NOx	50	ppm	6	5	7	–	–	–	–	–	–	–	–	–
HC	20	mg/Nm³	–	–	–	BDL	BDL	BDL	14	BDL	15	13	BDL	13.7

October 17 to March 18 monthly Summary

vi.	The company shall undertake following Waste Minimization measures :- • Metering of quantities of active ingredients to minimize waste. • Reuse of by products from the process as raw materials	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • We have SOP & define recipe (BMR) for all the products, as well as all the raw material are charged through mass flow meter or through load cell. So quantity has been measured for all the materials and in the all the manufacturing steps. • No by-product has been generated from process in

	or as raw material substitutes in other processes. • Maximizing recoveries • Use of automated material transfer system to minimize spillage. • Use of "Closed Feed" system into batch reactors.	present product profile. However company has started to send high calorific incinerable waste for co-processing at cement industry. As a part of resource conservation and same should be inform to Ministry in EC compliance report submitted through speed post on 15th March 2017& 20th Feb, 2018 • We have provided all the system to maximized recoveries, in case of solvent recovery is 98%+. Pl. see **Annexure 16 in the main report** for facility provided to recovery system • We have provided automated material transfer system to minimize spillage, in addition to that all plants are DCS based and operation are being carried out in close system • We have closed feed system for liquid materials. For solid materials, powder charging system has been provided and all plant are fully automatic and DCS based. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
vii.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Hazardous waste generates from site is being managed as per the existing consent No. **AWH-80972** dated 16/09/2016 valid up to **11/03/2019** and as per the Hazardous waste rule 2016, CC&A copy is attached as **Annexure-2 in the main report**and CC&A compliance is given below. • Copy of **Form IV** submitted to GPCB for the year 2017, is attached for your ready reference as **Annexure 4 in the main report** • For membership certificate pl. refer point No.4 **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**



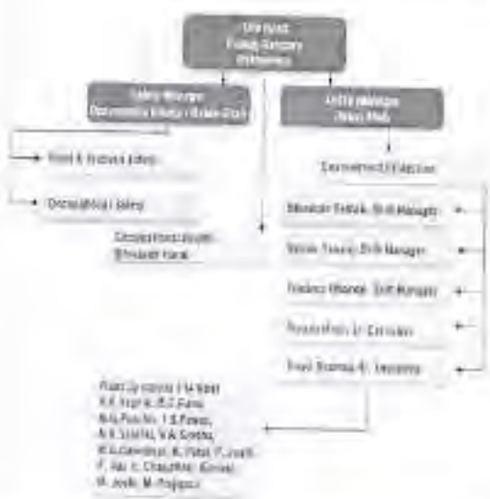
S. No.	Consent Condition	Compliance Status
[illegible]	[illegible]	

S. No.	Consent Condition	Compliance Status
[illegible]	[illegible]	

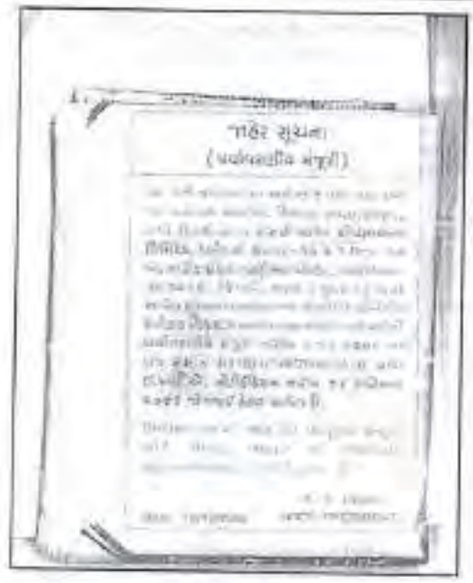
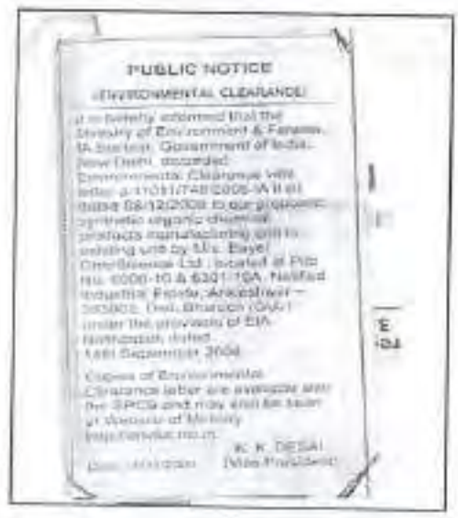
S. No.	Consent Condition	Compliance Status
[illegible]	[illegible]	

S. No.	Consent Condition	Compliance Status
[illegible]	[illegible]	

	[illegible]	[illegible]
viii.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following:-

	generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	• The overall noise level is well within the limit for detail pl. refer **Annexure 12 in the main report** for noise monitoring report • Noise monitoring is done by Precitech Laboratories Pvt. Ltd. It is a MoEF recognized laboratory (valid up to 08/02/2022 vide notification no. S.O. 388(E), dtd. 10/02/2017) and an NABL accredited laboratory (certificate no. is TC-5049, Issue date 27/02/2017 & validity until 26/02/2019). **In view of the information furnished by the PP and as the PP has provided in-house noise monitoring data at Annexure -12, the stipulated condition is considered complied subject to submission of summary of Noise monitoring data undertaken by the NABL accredited lab alongwith test reports.** **COMPLIED SUBJECT TO CONDITION**
(v)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • An EMS management cell is in place & functioning well. Organogram of EMS management cell is as below. We have also established adequate ETP laboratory to analyzing basic parameter like pH, COD, BOD, TDS, TSS, NH3-N, Cl, Toxicity factor, etc..., for detail analysis we have tie-up with NABL accredited M/s Precitech laboratory **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
	 Qualification of EHS department [illegible]	
x.	The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Total plot area is **76691 M^2** out of this in **25422.818 M^2** area green belt has been developed which is

		approximate **33.14%** of total area. • Approximately >1000 +local trees like Neem, Babool, Ashopalav, Ashoka, Teak, Eucalyptus, Kadamb, Gulmohar, Jamun, Jackranda, Seasal, Gauva, Mango, Coconut, Bottle palm etc. have been planted. Survival rate of planted trees is approx. 95% + **In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.** **COMPLIED**
xi.	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office /SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • The six monthly compliance report is being submitted dated 17/03/2017 & 20/02/2018 to the Regional Office of MoEF, the Zonal Office of CPCB. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
xii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: **EC file no. F. No. J-11011/749/2008- IA II (I)**issued by MoEF on dated **08/12/2008** and received by us on dated **16/12/2008** at site. After receiving the EC advertisement for granted EC has been given in English NEWS paper Times of India (English) & Gujarati NEWS paper Gujarat Samachar on dated 22/12/2008 and also inform to ministry about advertisement through letter reference No. Nil, dated 18th Jan. 2009 (Copy is pasted below): **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

		  PUBLIC NOTICE (ENVIRONMENTAL CLEARANCE) K. K. DESAI
xiii.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • The project is internally created and fund is organized by company, so there is no financial approval and closure for the project.However, financial approval of the project was decided in internal project review meeting held in the year 2009. **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**
7.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the

	satisfactory.	following: Compliance of the said condition pertains to ministry, hence not applicable to us. In view of the information furnished by the PP, the stipulated condition is considered not applicable to PP. **COMPLIANCE NOT APPLICABLE TO PP**
8.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: Compliance of the said condition pertains to ministry, hence not applicable to us. So far no additional condition received from ministry. **In view of the information furnished by the PP, the stipulated condition is considered not applicable to PP.** **COMPLIANCE NOT APPLICABLE TO PP**
9.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: **As the stipulated condition pertains to NEPA, the stipulated condition is considered not applicable to PP.** **COMPLIANCE NOT APPLICABLE TO PP**
10.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted the following: • Point noted and unit time to time on regular basis ensured compliance of all the applicable acts & rules under said condition i.e. Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules. • Copy of PLI policy attached as <u>Annexure-13 in the main report.</u> **In view of the information furnished by the PP, the stipulated condition is considered complied.** **COMPLIED**

Summary note:

I. **Implementation of Conditions:**

- Out of 43 total conditions, it may be seen that 30 are fully complied, 5 are complied subject to condition, and 7 are compliance not applicable to PP and 1 is complied subject to acceptance by MoEFCC, New Delhi. These have been explained in the foregoing compliance report against each of the conditions, and the PP needs to take necessary and time bound action for early compliance in respect of the relevant conditions and the general observations mentioned below.

II. **Court Cases and show cause/closure notices:**

Project Proponent vide letter dated 12.05.2018 received in MOEF&CC, RO Bhopal on 14.05.2018 submitted that there are no court case pending against the project and no show cause /closure notices have been issued by GPCB over the past 3 years.

GHVCchary

(Dr. H.V.C.Chary Guntupalli)

Scientist-D