



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन
मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST &
CLIMATE CHANGE

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

File No: 5-8/2011(ENV)/410

Dated: 02/07/2019

प्रति,

रिचा शर्मा,
संयुक्त सचिव, आईए डिवीजन,
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
इंदिरा पर्यावरण भवन,
जोर बाग रोड, अलीगंज,
नई दिल्ली - 110003

To,

Ms. Richa Sharma,
The Joint Secretary, IA Division,
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
NewDelhi - 110003

विषय : मेसर्स भारत रसायन लिमिटेड, द्वारा प्लॉट नं. 44/4, जीआईडीसी एस्टेट, दहेज, तालुका वाग्रा, जिला: भरुच, गुजरात में प्रस्तावित एग्रोकैमिकल प्लांट के लिए पर्यावरणीय स्वीकृति के संबंध में।

Sub: Proposed Agrochemical Plant at plot no. 44/4, GIDC estate, Dahej Taluka Vagra in Dist. Bharuch, in Gujarat by M/s Bharat Rasayan Limited- Environmental Clearance – reg.

Ref: Ministry's Letter No. J-11011/961/2008-IA.II(I) dated 13.07.2009

महोदय,

मंत्रालय के उपरोक्त संदर्भित 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 13.07.2009 का अनुवीक्षण प्रतिवेदन (मॉनिटरिंग रिपोर्ट) एतद् द्वारा संलग्न कर प्रेषित है।

2.0 यह सक्षम प्राधिकारी द्वारा अनुमोदित है।

भवदीय

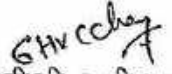
संलग्न: उपरोक्तानुसार

GHV Chhoy
(डॉ. एच.वी.सी. चारी गून्टुपल्ली)
वैज्ञानिक 'डी'

Cont.....2

प्रतिलिपि:

1. श्री एस.के. श्रीवास्तव, वैज्ञानिक 'ई', पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली - 110003 की ओर सूचनार्थ हेतु।
Shri S.K. Srivastava, Scientist 'E', Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, NewDelhi-110003 for kind information please.
2. श्रीमती श्रुति राय भारद्वाज, वैज्ञानिक 'ई', (मॉनीटरिंग सैल), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली-110 003 की ओर सूचनार्थ हेतु।
Smt. Shruti Rai Bhardwaj, Scientist-'E', Monitoring Cell, Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi- 110003 for kind information please.
3. श्री अजय गुप्ता (निदेशक संचालन), मेसर्स भरत रसायन लिमिटेड, इकाई-ए, लाट नं. 42/4, अमोद रोड, जीआईडीसी, दहेज, जिला: भरुच- 392 130 गुजरात की ओर सूचनार्थ हेतु।
Shri Ajay Gupta (Director Operations), M/s Bharat Rasayan Limited, Unit-II, Plot No. 42/4, Amod Road, GIDC, Dahej, Dist.-Bharuch- 392 130 Gujarat for kind information please.


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

Monitoring the Implementation of Environmental Safeguards
Ministry of Environment, Forest & Climate Change
Regional Office (WZ) Bhopal
Monitoring Report

Part – I

DATA SHEET (Details as furnished by the PP)

1	Project Type : River-Valley / Mining Industry / Thermal / Nuclear / other (Specify)	:-	Agrochemical & Intermediate unit
2	Name of the Project	:-	Bharat Rasayan Limited.
3	Clearance Letter(s)/ OM No. & Date		EC No. J-11011/961/2008-IA-II [I] ; dated 13-07-2009, amended in 05.09.2012
4	Location;		
	a]. District (s)	:-	Bharuch
	b]. State (s)	:-	Gujarat
	c]. Latitude / Longitude	:-	Latitude: 21° 43' 25.01" N Longitude: 72° 35' 33.9" E
5	Address for Corrospodence	:-	Plot No. 42/4, GIDC Estate, Dahej, Tal: Vagra, Dist. Bharuch, Gujarat.
	a]. Address of Concerned Project Chief Engineer {With Pincode & Telephone / Telex / Fax Numbers.	:-	Mr. Ajay Gupta-7046500020 (Director Operations) ajay.gupta@bharatgroup.co.in
	b]. Address of Executive Project Engineer / Manager (with Pincode / Fax Number)	:-	Mr. Ajay Gupta-7046500020 (Director Operations) ajay.gupta@bharatgroup.co.in
6	Salient Features	:-	
	a]. Of the Project	:-	
	<ul style="list-style-type: none"> ➤ We have been provided closed handling system. ➤ we have been designed process reactors/ Vessels after Hazop study and installed with all the safety guidelines. In case of any emergency, we have been already provided Fire Hydrant systems in loop with jockey pumps. Also provided adequate various types of fire extinguishers. <p>Other fire fighting facilities have been installed at site:</p> <ul style="list-style-type: none"> ➤ Fire load calculation is being carried out and Fire Extinguishers at different locations are provided. ➤ Working staff will be given training to operate extinguishers. ➤ Sufficient Fire Hydrant Network has been installed as per the calculated 		

	<p>requirement for fire fighting.</p> <ul style="list-style-type: none"> ➤ ERT members are recruited from all plants and regularly training them with Mock drills. ➤ First Aid Training is imparted to employees by designated first aid trainers. 		
	b]. Of the Environmental Management Plans	:-	
	<ul style="list-style-type: none"> ➤ We have Full-fledged ETP, Stripper-MEE-ATFD system and RO Plant to treat the wastewater. ➤ We have been installed two stage scrubber system at all process stacks, ESP installed at coal based boiler and Bag filter at Thermic Fluid Heater. ➤ As per CPCB guideline, appropriate stack height for Flue gas Emission and Process stacks are given below; <p>-Boiler Stack (18 TPH) } 30 meter -Thermic Fluid Heater- (4 Lac KCal/hr)- -DG Set (750 KVA) – 11 Meter -DG Set (750 KVA) – 11 Meter -Process Stacks / vents of all plants – 15 meter</p>		
7	Break Up of the Project Area	:-	Unit is located in G.I.D.C Dahej Industrial zone as Non forest area.
	a]. Submergence area : forest & Non-forest	:-	
	b]. Others	:-	
8	Breakup of the project affected population with enumeration of those losing houses / dwelling units , only agricultural land , both dwelling units & agricultural land & landless labourers / artisan.	:-	Not applicable as our unit is located in G.I.D.C Dahej Industrial area as Non forest area and land procured from GIDC itself.
	a]. SC , ST / Adivasis	:-	
	b]. Others	:-	
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:-	
9	Financial Details	:-	
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:-	Initial Rs. 44 Crores as estimated & planned, + we have invested in standby Boiler with ESP Rs. 4.45 Cr in year 2017, + Formulation Plant Rs. 41.70 Cr. In 2019 which is under installation

b). Allocation made for environmental management plans with item wise and year wise break-up.

:-

Funds for year	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
Year 2013 to Sept.2018	1469.93	397.98

Environment Budget Allocation Sheet			
From 01.10.2018 to 31.03.2019			
Sr.No.	Particulars	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
1	Air Pollution Control	7.20	0.00
2	Water Pollution Control	463.80	302.00
3	Noise Pollution Control	0.00	0.00
4	Environment Monitoring & Management	29.60	0.00
5	Reclamation Borrow/ Mined Area	0.00	0.00
6	Occupational	9.93	0.00
7	Green Belt	0.91	0.00
8	Others [Pl. Specify] Manpower cost	62.60	0.00
TOTAL Cost in [Rs. In lac]		574.04	302.00

c). Benefit cost ratio / Internal rate of return and the year of assessment

:-

Report for the year wise benefit of Cost ratio has been provided

d). Whether (c) includes the cost of environmental management as shown in the above

:-

Yes

e). Actual expenditure incurred on the project so far

:-

Yes, it is included.

10 Forest land Requirement

:-

a). The status of approval for diversion of forest land for non-forestry use

b). The Status of clearing 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 G.I.D.C Dahej Industrial zone as Non forest area.

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 G.I.D.C Dahej Industrial zone as Non forest area.

12 Status of construction;

:-

	a]. Date of commencement (Actual and / or Planned).	:-	Dec-11
	b]. Date of completion (Actual and / or Planned)	:-	30.11.2011
13	Reasons for the delay if the project is yet to start	:-	Due to product mix requirement the project was delayed for EC & CTE amendment
14	Dates of site visits	:-	
	a]. The dates on which the project was monitored by the Regional Office on Previous occasions, if any	:-	
	b]. Date of site visit for this monitoring project	:-	16.05.2019
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 Reply from PP
	20.05.2019:	MoEF&CC, RO Bhopal letter no. 5-8/2011(ENV)/283 dated:20.05.2019	17.06.2019: PP submitted comprehensive compliance report vide letter dated: 17.06.2019 and received in MoEF&CC, RO Bhopal on 17.06.2019

Part - II & III

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

Compliance Status (for the period of October 2018 to March 2019) of Environmental Clearance issued by MoEF, New Delhi vide letter Reference no. F. No. J-11011/961/2008-IA-II [I] ; dated 13-07-2009, amended in 05.09.2012

(Details of project: M/s. Bharat Rasayan Limited Plot No.42/4, Amod Road, GIDC-Dahej. Tal.Vagra, Dist. Bharuch 392 130)

A	Specific Conditions	Compliance																																								
i	<p>The waste water generation will be 877 m³/day. The effluent shall be segregated based on its biodegradability. High TDS effluent from the process shall be sent to Evaporation system. The water will be evaporated, condensed and recycle to process/scrubber/sent to effluent treatment plant. Salts shall be sent to TSDF. After recovery of solvent from mother liquor water will be sent to ETP. The company shall install steam</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Complied as we have been generated less than 877 M³/Day waste water and the waste water streams are segregated with High COD/TDS, Dilute effluent streams and Domestic streams, however the high COD/TDS streams have been treated through Stripper-ME1 & ATFD and Dilute stream having low COD been treated in secondary Biological system followed by Reverse Osmosis (M/s.Rochem Brand RO) to reuse permeate water in our cooling tower make up at Utilities and Domestic effluent has been treated in STP. After treatment, the waste water is disposed to GIDC sewer line at Pumping station-A through online TOC monitoring system.</p> <table border="1" data-bbox="558 1635 1388 1960"> <thead> <tr> <th colspan="3">High TDS/COD Effluent Generation Data of 6 months</th> <th colspan="3">Low COD Effluent Generation Data</th> </tr> <tr> <th rowspan="2">Month</th> <th>Min.</th> <th>Max.</th> <th rowspan="2">Month</th> <th>Min.</th> <th>Max.</th> </tr> <tr> <th colspan="2">KLD</th> <th colspan="2">KLD</th> </tr> </thead> <tbody> <tr> <td>Oct-18</td> <td>60</td> <td>110</td> <td>Oct-18</td> <td>37</td> <td>144</td> </tr> <tr> <td>Nov-18</td> <td>47</td> <td>114</td> <td>Nov-18</td> <td>11</td> <td>127</td> </tr> <tr> <td>Dec-18</td> <td>43</td> <td>99</td> <td>Dec-18</td> <td>23</td> <td>133</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Jan-19</td> <td>59</td> <td>145</td> </tr> </tbody> </table>	High TDS/COD Effluent Generation Data of 6 months			Low COD Effluent Generation Data			Month	Min.	Max.	Month	Min.	Max.	KLD		KLD		Oct-18	60	110	Oct-18	37	144	Nov-18	47	114	Nov-18	11	127	Dec-18	43	99	Dec-18	23	133				Jan-19	59	145
High TDS/COD Effluent Generation Data of 6 months			Low COD Effluent Generation Data																																							
Month	Min.	Max.	Month	Min.	Max.																																					
	KLD			KLD																																						
Oct-18	60	110	Oct-18	37	144																																					
Nov-18	47	114	Nov-18	11	127																																					
Dec-18	43	99	Dec-18	23	133																																					
			Jan-19	59	145																																					

stripper to remove traces of solvent from the waste water before sending to ETP for treatment. The biodegradable effluent will be treated in proposed ETP plant for primary, secondary and tertiary treatment. The treated effluent shall be sent to GIDC sewer lined into deep sea.	Jan-19	59	105		Feb-19	53	143
	Feb-19	26	98		Mar-19	49	122
	Mar-19	76	97				
	RO Reject Generation Data			RO Permeate Generation Data			
	Month	Min.	Max.	Min.	Max.		
		KLD		KLD			
	Oct-18	9	33	39.2	131		
	Nov-18	6.34	35.7	48.6	140.8		
	Dec-18	7.9	34.9	35.2	119.7		
	Jan-19	2.6	40	51.9	129.9		
Feb-19	11.2	27.3	50.4	132.1			
Mar-19	8	34.6	39	115.6			
STP Effluent Generation Data			Final Treated Effluent Discharged to GIDC				
Month	Min.	Max.	Month	Min.	Max.		
	KLD			KLD			
Oct-18	6	63	Oct-18	0	253		
Nov-18	37	65	Nov-18	0	267		
Dec-18	25	57	Dec-18	0	270		
Jan-19	33	54	Jan-19	0	204		
Feb-19	38	57	Feb-19	0	190		
Mar-19	32	54	Mar-19	0	135		
In view of the information furnished by the PP, the stipulated condition is considered complied.							
COMPLIED							
ii	To control the process emission in the form of HCl & Cl ₂ , HCl scrubber, caustic scrubber and vent scrubber shall be installed and emissions shall be dispersed through the stack of	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following: Adequate air pollution control measure like HCl scrubber, caustic scrubber and vent scrubbers with stacks of adequate height have been provided to control the process emission (HCL+CL). Adequate stack height as per CPCB standards has been provided to control the Gaseous emission from the boiler and DG sets. D.G. Sets are having acoustic enclosure to mitigate the noise level.					

adequate height as per CPCB/ SPCB standards. Gaseous emissions from the boiler and DG sets shall be dispersed through adequate stack height as per CPCB standards shall be provided. To mitigate the noise levels, acoustic treatment shall be given to the DG set.

As per CPCB guideline, appropriate stack height for Flue gas Emission and Process stacks are given below;

- Boiler Stack (18 TPH) } 30 meter
- Thermic Fluid Heater- (4 Lac KCal/hr)- } 30 meter
- DG Set (750 KVA) – 11 Meter
- DG Set (750 KVA) – 11 Meter
- Process Stacks / vents of all plants – 15 meter

The monthly monitoring has been carried out by M/s. Siddhi Green Excellence Pvt Ltd. Ankleshwar (Recognized NABL Laboratories no NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) and is recognized by Gujarat Pollution Control Board. Summary of the monitoring data is presented below and copy of the test reports are enclosed as Annexure-1 in the main report

In view of the information furnished by the PP and the monitoring data presented below showing the parameters well below the stipulated norms, the stipulated condition is considered complied.

COMPLIED

Month of Oct-18 to Mar-2019 Boiler

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	85	135	110	150 mg/Nm ³
SO ₂	40	52	46	100 ppm
NO _x	32	40	36	50 ppm

Month of Oct-18 to Mar-2019 Process vent -1

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	4.5	7.2	5.85	20 mg/Nm ³
Cl ₂	2	3	2.5	5 mg/Nm ³
HBr	BDL	BDL	BDL	5 mg/Nm ³
Br ₂	BDL	BDL	BDL	2 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
H ₂ S	BDL	BDL	BDL	5 mg/Nm ³

Month of Oct-18 to Mar-2019 Process vent - Plant: B

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	3.1	7	5.05	20 mg/Nm ³

VOC as BTX*	BDL	BDL	BDL	----
BDL- Below Detection limit				

SO2	BDL	BDL	BDL	40 mg/Nm ³
H2S	BDL	BDL	BDL	5 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent - Plant: C

Parameter	Result			GPCB Norms
	Min	Max	Avg	
DMA	BDL	BDL	BDL	----
SO2	12	18	15	40 mg/Nm ³
HCl	1.9	8	4.95	20 mg/Nm ³
VOC as BTX*	BDL	BDL	BDL	----
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Plant C- S.F.D. Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	21	33	27	150 mg/Nm ³

Month of Oct-18 to Mar-2019 Tank farm Scrubber Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	5.1	8.6	6.85	20 mg/Nm ³
Cl2*	BDL	BDL	BDL	5 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-218 to Mar-2019 D.G. SET-1 & 2

Parameter	D.G. SET-1 Result			D.G. SET-2 Result			GPCB Norms
	Min	Max	Avg	Min	Max	Avg	
PM	67	74	70.5	74	77	75.5	150 mg/Nm ³
SO2	21	23	22	21	31	26	100 ppm
NOx	30	31	30.5	35	39	37	50 ppm

Acoustic enclosures have been provided in DG sets to mitigate noise pollution. The summary of the ambient noise monitoring reports during the period day/night, once in a month as monitored by M/s. Siddhi Green, Excellence Pvt ltd. Ankleshwar (Recognized NABL Laboratories no

NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) and recognized by Gujarat Pollution Control Board is presented below, and copy of the test report is enclosed as Annexure 2 in the main report.

NOISE LEVEL DATA SHEET OCT-18 TO MAR-19

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Near Security Main Gate	51	54	50	52
2	Near ADM Office	59	59	45	53
3	Near ETP	72	72	61	63
4	Near Boiler	74	74	63	66
5	Near Plant A	71	71	65	68
6	Near Plant B	73	73	58	61
7	Near Plant C	70	70	52	60
8	Near Utility	73	74	66	68
9	Near Canteen	59	59	50	54
10	Near MEE Plant	65	73	61	64
Standard		75 dB(A)		70 dB(A)	

Noise levels are found within standard at all locations.

iii

The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective zonal office of CPCB and the SPCB. The

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

We have regularly uploaded the status of compliance of the stipulated environmental clearance conditions including the monitoring data and also submitted compliance reports to GPCB, MoEF & CPCB from time to time.

We have submitted the status of compliance of the stipulated environmental clearance conditions, including results of monitored data along with CD from time to time at the Regional office of MOEF the respective office of CPCB and the GPCB.

EC compliance report (Oct-18 to March-19)- This report

EC compliance report (Apr-18 to Sep-18)

EC compliance report (Apr-16 to Sep-16)

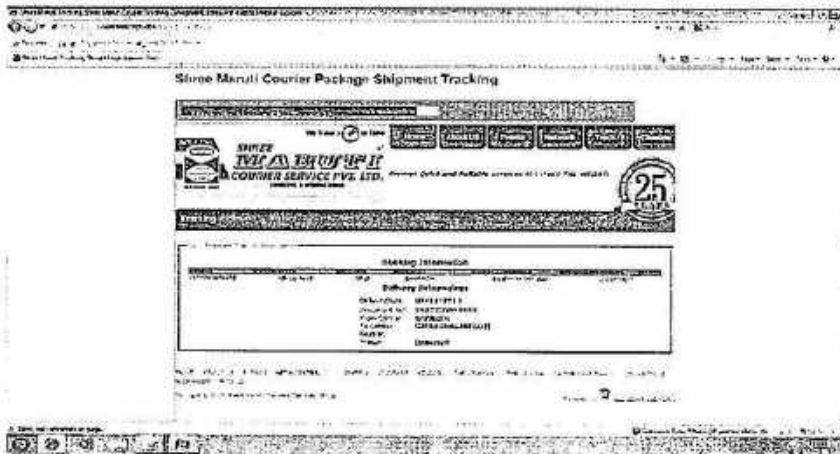
EC compliance report (Oct-15 to Mar-16)

EC compliance report (Jan-15 to Jun-15)

<p>levels of SPM, RSPM, SO₂, NO_x and VOC (ambient levels) and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.</p>	<p>EC compliance report (Jul-14 to Dec-14) EC compliance report (Jan-14 to Jun-14) We are monitoring the air, flue gas analysis report of the month of Oct-2018 to Mar-2019 by M/s. Siddhi Green, Excellence Pvt Ltd Ankleshwar (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) and the reports have been submitted to our earlier EC compliance reports. The levels of PM₁₀, PM 2.5, SO_x, NO_x and VOC in the ambient air as well as stack monitoring data of various stacks have been monitored by M/s. Siddhi Green, Excellence Pvt Ltd. Ankleshwar (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) and the said monitoring data is displayed at a convenient location near the main gate of our company.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of weblink details where the status of compliance of the stipulated environmental clearance conditions, including results of monitored data are uploaded.</p> <p>COMPLIED SUBJECT TO CONDITION</p>
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Environment Clearance compliance Reports(April'15toSept15) submitted thru Courier;

1) To The Member Secretary, Gandhinagar delivered on 07/12/2015



2) To The Chief Conservator of Forests, Bhopal Delivered on 07/12/2015

Courier Tracking Tool, Track Courier Status
Shree Maruti Courier Package Shipment Tracking

SHREE MARUTI COURIER SERVICE PVT. LTD. 25

Shipment Information

Tracking No.	Origin	Destination	Service	Status	ETA
1234567890	Delhi	Mumbai	Express	In Transit	07/12/15

Shipment Details

Item No.	Description	Weight	Volume
1	Document	0.5 kg	0.1 m³

Tracking History

Date	Time	Location	Status
07/12/15	10:00 AM	Delhi	Package Accepted
07/12/15	05:00 PM	Delhi	Package Departed
08/12/15	08:00 AM	Mumbai	Package Arrived

3) To The Secretary Department of Environment and Forests, Gandhinagar Delivered on 7/12/15

SHREE MARUTI COURIER SERVICE PVT. LTD. 25

Shipment Information

Tracking No.	Origin	Destination	Service	Status	ETA
1234567890	Delhi	Mumbai	Express	In Transit	07/12/15

Shipment Details

Item No.	Description	Weight	Volume
1	Document	0.5 kg	0.1 m³

Tracking History

Date	Time	Location	Status
07/12/15	10:00 AM	Delhi	Package Accepted
07/12/15	05:00 PM	Delhi	Package Departed
08/12/15	08:00 AM	Mumbai	Package Arrived

4) To, The Chairman, CPCB , New Delhi Delivered on 7/12/15

SHREE MARUTI COURIER SERVICE PVT. LTD. 25

Shipment Information

Tracking No.	Origin	Destination	Service	Status	ETA
1234567890	Delhi	Mumbai	Express	In Transit	07/12/15

Shipment Details

Item No.	Description	Weight	Volume
1	Document	0.5 kg	0.1 m³

Tracking History

Date	Time	Location	Status
07/12/15	10:00 AM	Delhi	Package Accepted
07/12/15	05:00 PM	Delhi	Package Departed
08/12/15	08:00 AM	Mumbai	Package Arrived

5) To, Monitoring Cell, Ministry of Environment and Forests, New Delhi Delivered on 7/12/15

SHREE MARUTI COURIER SERVICE PVT. LTD. 25

Shipment Information

Tracking No.	Origin	Destination	Service	Status	ETA
1234567890	Delhi	Mumbai	Express	In Transit	07/12/15

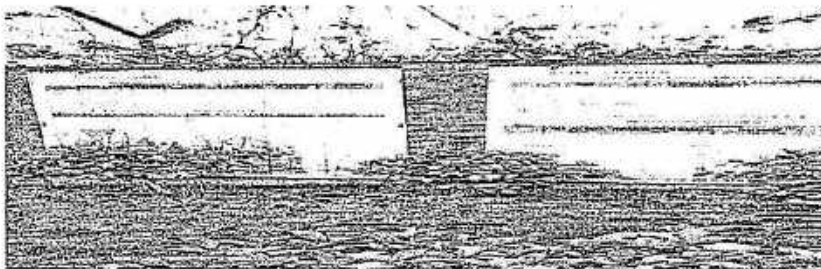
Shipment Details

Item No.	Description	Weight	Volume
1	Document	0.5 kg	0.1 m³

Tracking History

Date	Time	Location	Status
07/12/15	10:00 AM	Delhi	Package Accepted
07/12/15	05:00 PM	Delhi	Package Departed
08/12/15	08:00 AM	Mumbai	Package Arrived

Display board at Main Gate of BRL



<p>iv</p>	<p>Standard notified for pesticides unit under the Environment (Protection) Act 1986 and amended time to time shall be followed by the unit.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We agree with the said condition and be complied.</p> <p>We follows the Pesticide standard norms for EPA Act, 1986 and its amendment.</p> <p>We have been provided closed handling system.</p> <p>We have been installed two stage scrubber system at all process stacks, ESP installed at coal based boiler and Bag filter at Thermal Fluid Heater.</p> <p>We have Full-fledged ETP, Stripper-MEE-ATFD system and RO Plant to treat the wastewater.</p> <p>Third party M/s. Siddhi Green Excellence Pvt Ltd. Ankleshwar (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) is doing ambient Air quality monitoring on the monthly as well as twice / week of ambient Air Quality standard.</p> <p>Results are given below:</p> <p>In view of the information furnished by the PP, the condition is considered complied subject to submission of comparative analysis of results with the national emission standards for pesticide industries notified by MoEF&CC vide G.S.R.446 E dated 13th June, 2011.</p> <p>COMPLIED SUBJECT TO CONDITION</p>
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Month of Oct-18 to Mar-2019 Boiler

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	85	135	110	150 mg/Nm ³
SO ₂	40	52	46	100 ppm
NO _x	32	40	36	50 ppm

Month of Oct-18 to Mar-2019 Process vent -1

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	4.5	7.2	5.85	20 mg/Nm ³
Cl ₂	2	3	2.5	5 mg/Nm ³
HBr	BDL	BDL	BDL	5 mg/Nm ³
Br ₂	BDL	BDL	BDL	2 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent -

Parameter	Result			GPCB Norms
	Min	Max	Avg	
H ₂ S	BDL	BDL	BDL	5 mg/Nm ³
VOC as BTX*	BDL	BDL	BDL	---
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent - Plant: B

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	3.1	7	5.05	20 mg/Nm ³
SO ₂	BDL	BDL	BDL	40 mg/Nm ³
H ₂ S	BDL	BDL	BDL	5 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent - Plant: C

Parameter	Result			GPCB Norms
	Min	Max	Avg	
DMA	BDL	BDL	BDL	---
SO ₂	12	18	15	40 mg/Nm ³
HCl	1.9	8	4.95	20 mg/Nm ³
VOC as BTX*	BDL	BDL	BDL	---

Month of Oct-18 to Mar-2019 Plant C- S.F.D. Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	21	33	27	150 mg/Nm ³

Month of Oct-18 to Mar-2019 Tank farm Scrubber Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	5.1	8.6	6.85	20 mg/Nm ³
Cl ₂ *	BDL	BDL	BDL	5 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-218 to Mar-2019 D.G. SET-1 & 2

Parameter	D.G. SET-1 Result			D.G. SET-2 Result			GPCB Norms
	Min	Max	Avg	Min	Max	Avg	
PM	67	74	70.5	74	77	75.5	150 mg/Nm ³
SO ₂	21	23	22	21	31	26	100 ppm
NO _x	30	31	30.5	35	39	37	50 ppm

BHARAT RASAYAN - AAQM (CANTEEN AREA) Month of Oct-18 to Mar-2019

Sr. No.	Parameter	Result mg/Nm ³			NAAQS Norms
		Min	Max	Avg	µg/m ³
1	PM10 (µg/m ³)	65	92	78.5	100
2	PM2.5 (µg/m ³)	20	39	29.5	60
3	SO ₂ (µg/m ³)	10	27	18.5	80
4	NO _x (µg/m ³)	19	31	25	80
5	HCL (µg/m ³)	BDL	BDL	BDL	200
6	CL ₂ (µg/m ³)	BDL	BDL	BDL	100
7	H ₂ S (µg/m ³)	BDL	BDL	BDL	500
8	HC(µg/m ³)	BDL	BDL	BDL	160
9	NH ₃ (µg/m ³)	15	66	40.5	400
10	HF (µg/m ³)	BDL	BDL	BDL	60
11	CO (µg/m ³)	450	1487	968.5	4
12	CS ₂ (µg/m ³)	BDL	BDL	BDL	1

BHARAT RASAYAN - AAQM (ETP AREA) Month of Oct-18 to Mar-2019

Sr. No.	Parameter	Result mg/Nm ³			NAAQS Norms
		Min	Max	Avg	µg/m ³
1	PM10 (µg/m ³)	65	92	78.5	100
2	PM2.5 (µg/m ³)	21	39	30	60
3	SO ₂ (µg/m ³)	10	29	19.5	80
4	NO _x (µg/m ³)	18	31	24.5	80
5	HCL (µg/m ³)	BDL	BDL	BDL	200
6	CL ₂ (µg/m ³)	BDL	BDL	BDL	100
7	H ₂ S (µg/m ³)	BDL	BDL	BDL	500
8	HC(µg/m ³)	BDL	BDL	BDL	160
9	NH ₃ (µg/m ³)	15	66	40.5	400
10	HF (µg/m ³)	BDL	BDL	BDL	60
11	CO (µg/m ³)	450	1487	968.5	4
12	CS ₂ (µg/m ³)	BDL	BDL	BDL	1

v

The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the hazardous waste (Management, Handling and trans-boundary movement)

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

Complied as we have obtained CC&A from GPCB vide letter no AWH -90645 dated 22/01/2018 which is valid up to 11/10/2022 for disposal of solid/hazardous waste

Membership of TSDF for hazardous waste disposal has been obtained from facilities as the membership certificates are given in below table.

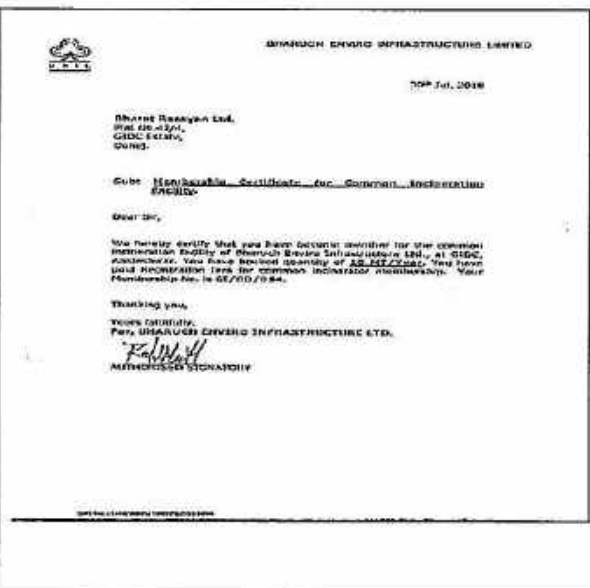
Rules 2008 for management of hazardous waste and prior permission from GPCB shall be obtained for disposal of solid/hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.

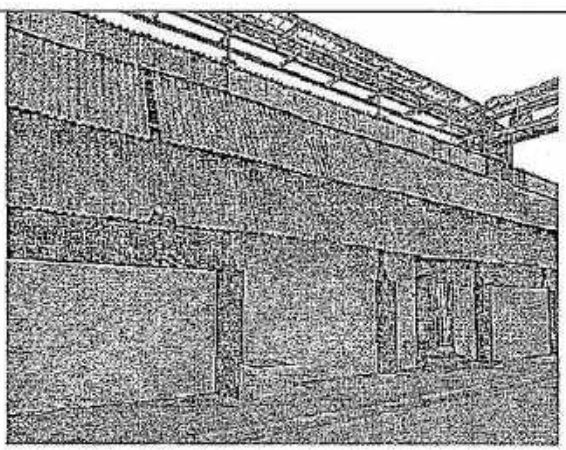
As a part of EMS, we have made dedicated HWS storage yard v RCC flooring & cemented Roof Top as per Hazardous Waste Ri 2009 and amended in 2016.

See the below photograph of Membership certificates & HWS stor Yard;

In view of the information furnished by the PP and as per the site observation, stipulated condition is considered complied.

COMPLIED





----- X -----

We have provided Fire Hydrant systems & Monitors with jockey pumps. Also provide adequate various types of fire extinguishers to control any emergency.

FIRE & SAFETY EQUIPMENT DETAILS

LOCATION OF S.C.B.A SETS IN THE COMPANY

Location of Self-contained Breathing Apparatus in the company is as below

Sr.No	Location	Qty in Nos	Make
1	Chlorine Yard	1	Venues
2	Chlorine Yard	1	Venues
3	Plant A - Ground Floor	1	Scott

4	Plant B - Ground Floor	1	Scott
5	Plant C - Ground Floor	1	Scott
6	Safety Office at utility (Emergency Purpose) - Standby	1	Scott
TOTAL IN NOS		06	

DETAILS OF FIRE HYDRANT SYSTEM

1. Fire water capacity: 900 m³ reserved
2. Main Pump Capacity: 273 m³/hr. 70 meter Head, 1800 rpm, Kirloskar Make
3. Jockey Pump Capacity: 11 m³/hr. 70 meter Head, wilo Make
4. Diesel Pump Capacity: 273 m³/hr. 70 meter Head, Kirloskar Make

Sl. No	Name of Pump	Starting (on) water pressure	Stopped (close) water pressure
01	Jockey pump	05 kg /cm ²	07.5 kg /cm ²
02	Main Electrical pump	4.5 kg /cm ²	Manually Stopped
03	Diesel Pump	04 kg /cm ²	Manually Stopped

EHS – Equipment list

Sr, no	Equipment Name	Qty	Remarks / available
1	Fire Hydrant	37	All Ground Floors.
2	Water Monitor	06	
3	Water / Foam Monitor	04	Near Explosive tank Farm Area.
4	Hose Reel Hose	29	All – 03 Plant in side
5	Water Sprinkler system	01+01+1+01=04	DMA Tank Farm Area + Plant – C Hold tank Area (2 nd Floor) & day tank+ IB storage tank farm area
6	Chemical Spill Kit	06	
7	Foam Trolley	04	
8	Chlorine kit (cl ₂)	02	
9	SCBA Set	06	
10	Foam Solution (AFFF)	2000 ltr	
11	Exp. Meter (potable)	01	Dragger – Make
12	Oxygen Meter (potable)	01	Honeywell
13	VOC Meter	01	ion
14	Safety Net	20	
15	Fire Blanket	06	06

Sr. No.	SUMMARY OF TOTAL FIRE EXTINGUISHER	Capacity	QTY
1	Co2	04.5 Kg	62 Nos.
2	Co2	22.5 Kg	2 Nos.
3	DCP	06.0 KG	72 Nos.
4	DCP	50.0 KG	16 Nos.
5	AFFF	09.0 Ltr	61 Nos.
6	AFFF	50.0 Ltr	13 Nos.
Total			226 Nos.

vi	<p>The project authority shall strictly comply with the rules and guidelines under manufacturing, storage and import of hazardous chemicals Rules, 1989 as amendments in October, 1994 and January, 2000. All transportation of Hazardous chemicals shall be as per the MVA, 1989</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Complied as we are strictly complying with the rules and guideline under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended in October, 1994 and January 2000. All Transportation of Hazardous Chemicals is as per the Moto Vehicle Act (MVA), 1989 and amended in 2001 are given in below table and check list for vehicles;</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
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MANUFACTURE, STORAGE AND IMPORT OF HAZARDOUS CHEMICAL (AMENDMENT) RULES, 2000

Applicable Invo and Rules	Obligations	Responsibilities	Remarks	March 2019
MSIHC Rules, 2000 Rule 4: General Responsibility of the occupier during Industrial Activity	Major Accident hazards are to be identified. Prevent such major accidents and to limit their consequences to persons and environment Provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure safety.	HSE /G.M (Prod.)	Risk Assessment and HAZOPs are carried out for all the plants/Process. Training sessions (Classroom & on the job) on major hazards and action to be taken for safety are periodically conducted.	Done
MSIHC Rules, 2000 Rule 5: Report of Major Accidents	Report any major accident on-site to concerned authorities as identified in Schedule-5	HSE	As & when required and till date No any reported accidents occurred	Done
MSIHC Rules, 2000 Rule-10: Submission of Safety Reports and safety audit reports	Safety audit report is to be updated once in a year by conducting a fresh safety audit and forward a copy of the same with comments thereon within 30 days to the concerned authorities.	HSE	Safety Audits of all plants are carried out with the help of DISH approved third party.	Done
MSIHC Rules, 2000 Rule-13: Preparation of On-Site Emergency Plan	An On-Site Emergency Plan Containing details specified in Schedule-11 is to be prepared.	HSE	Once and to be revised when any modification in activity is carried out.	Done

MSIHC Rules, 2000 Rule-13: Preparation of On-Site Emergency Plan	A mock drill of the on-site emergency Plan is to be conducted every six months and detailed report of the mock drill is to be made available to concerned authorities	HSE	Mock Drills are conducted every 6 months. Report is sent to DISH.	Done
MSIHC Rules, 2000 Rule-14: Preparation of Off-Site Emergency Plan by the Authority.	To provide the concerned authority with such information relating to the industrial activity in order to prepare Off-site Emergency Plan	HSE	All the required information is provided to District Collector for the preparation of "Off-Site Emergency Plan".	Done
MSIHC Rules, 2000 Rule 15, sub rule 2	To take steps to inform persons about an ongoing industrial activity along with safety measures and "Do's and Don'ts" in the event of major accident.	HSE/ HR	Public awareness about the "Do's and Don'ts in the event of major accident" is done through distribution of pamphlets etc.	Done
MSIHC Rules, 2000 Rule 15, sub rule 2	To take steps to inform persons about an ongoing industrial activity along with safety measures and "Do's and Don'ts" in the event of major accident.	HSE/HR	Public awareness about the "Do's and Don'ts in the event of major accident" is done through distribution of pamphlets etc.	Done

vii	<p>The company shall undertake following Waste Minimization measures.</p> <p>Metering and control of quantities of active ingredients to minimize waste.</p> <p>Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>Use of automated filling to minimize spillage.</p> <p>Use of "Close Feed" system into batch reactors.</p> <p>Venting equipment through vapour recovery system.</p> <p>Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Complied as we have been undertaken the following waste minimization measures :-</p> <p>Provided magnetic flow meter for charging with metering pumps.</p> <p>Vent gases re-use for internal other processes and made valuable products.</p> <p>Company use automated material transfer system to minimize spillage in closed loop.</p> <p>Provided closed feed system into batch reactors</p> <p>Maximize recovery system.</p> <p>We have provided Jet cleaning machine with safety standard to reduce waste water generation with high cleaning performance.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
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viii
&
x

Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the GPCB.

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

Third party M/s. Siddhi Green, Excellence Pvt Ltd. Ankleshwa (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) regularly monitor the fugitive emission in the work zone environment, product, and raw materials storage area conform to the limits stipulated by the GPCB

Company has provided closed handling system for raw material. We have been installed reflux condenser in solvent recovery system to achieve more than 95% recovery.

We have been prepared LDAR programme with Total VOC meter as well as Ambient monitoring stations to check fugitive emissions & leakages, if any.

The critical raw materials have been transferred in close loop system and installed safety lifeline like rupture disc and connected with Knock out tanks to control any escaped gases.

In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of test reports related to fugitive monitoring as monitored by NABL accredited laboratory i.e., M/s. Siddhi Green, Excellence Pvt Ltd. Ankleshwar.

COMPLIED SUBJECT TO CONDITION

FORM NO. 37 (Prescribed under Rule 12(3)) To be filled by the producer of hazardous waste for monitoring of working environment registered under Section 25-B of the Environment Protection Act, 1986.									
Sl. No.	Location of the plant/area	Name of the plant/area	Name of the process	Name of the equipment	Date of installation	Airborne Concentration		TSP (mg/m ³)	Remarks
						Number of samples	Range		
01	Plant - A	UNIT - 1	Crude Oil Refining	Distillation Column	01/01/2019	3	0-50	100	
02	"	"	"	"	"	4	0-50	08	
03	"	"	"	"	"	3	0-50	05	
04	"	"	"	"	"	0	0-50	00	
05	"	"	"	"	"	0	0-50	00	
06	"	"	"	"	"	0	0-50	00	
07	"	"	"	"	"	0	0-50	00	
08	"	"	"	"	"	0	0-50	00	
09	"	"	"	"	"	0	0-50	00	
10	"	"	"	"	"	0	0-50	00	
11	"	"	"	"	"	0	0-50	00	
12	"	"	"	"	"	0	0-50	00	
13	"	"	"	"	"	0	0-50	00	
14	"	"	"	"	"	0	0-50	00	
15	"	"	"	"	"	0	0-50	00	
16	"	"	"	"	"	0	0-50	00	
17	"	"	"	"	"	0	0-50	00	
18	"	"	"	"	"	0	0-50	00	
19	"	"	"	"	"	0	0-50	00	
20	"	"	"	"	"	0	0-50	00	

FORM NO. 37
(Prescribed under Rule 12-B)

Register Containing particulars of monitoring of working environment required under Section 7
 1 Name of the Department / Plant: A/2101
 2 Raw Materials, by Products and Finished products involved in the process: Plant - 1
 3 Particulars of Sampling: 1. SO₂

Sr. No. of Job card	Location Operation monitored was	Identified Contaminant against Area	Sampling instrument used as specified	Airborne Contamination		
				Number of Samples against area	Range	Average value
1	2	3	4	5	6	7
01	Plant - C	SO ₂ (SO ₂)	Impinger - Cal Detector	03 Sample against area	0-300 ppm	100
02	11	SO ₂ (SO ₂)	"	11	0-300 ppm	100

डोर्म नंबर. 30
 20 12-01 2022
 प्रमुख जीवाणु अधिकारी

Month - 12
 12/01/22

TWA concentration/As given in Second Schedule	Reference Method	Number of Workers exposed at the location being monitored specified above	Remarks	Signature person doing samples against job card	Name (in block letters)
8	9	10	11	12	13
01	Impinger method	01		GM Limit by Impinger	Dr. A. K. Mishra
15	"	01		"	"

Checked by: A. K. Mishra

FORM NO. 37
(Prescribed under Rule 12-B)

Register Containing particulars of monitoring of working environment required under Section 7
 1 Name of the Department / Plant: A/2101
 2 Raw Materials, by Products and Finished products involved in the process: Plant - 1
 3 Particulars of Sampling: 1. SO₂

Sr. No. of Job card	Location Operation monitored was	Identified Contaminant against Area	Sampling instrument used as specified	Airborne Contamination		
				Number of Samples against area	Range	Average value
1	2	3	4	5	6	7
01	Plant - C	Hydrogen Sulphide	Impinger	03 Sample against area	0-500 ppm	100
02	11	SO ₂ (SO ₂)	"	11	0-100 ppm	100
03	11	SO ₂ (SO ₂)	"	11	0-100 ppm	100

डोर्म नंबर. 30
 20 12-01 2022
 प्रमुख जीवाणु अधिकारी

Month - 12
 12/01/22

TWA concentration/As given in Second Schedule	Reference Method	Number of Workers exposed at the location being monitored specified above	Remarks	Signature person doing samples against job card	Name (in block letters)
8	9	10	11	12	13
01	Impinger method	01		GM Limit by Impinger	Dr. A. K. Mishra
02	"	01		"	"
03	"	01		"	"

Checked by: A. K. Mishra

FORM NO. 37
(Prescribed under Rule 12-B)

Register Containing particulars of monitoring of working environment required under Section 7
 1 Name of the Department / Plant: A/2101
 2 Raw Materials, by Products and Finished products involved in the process: Plant - Utility
 3 Particulars of Sampling: 1. Ammonia

Sr. No. of Job card	Location Operation monitored was	Identified Contaminant against Area	Sampling instrument used as specified	Airborne Contamination		
				Number of Samples against area	Range	Average value
1	2	3	4	5	6	7
01	Utility	Ammonia	Impinger	03 Sample against area	0-300 ppm	100

डोर्म नंबर. 30
 20 12-01 2022
 प्रमुख जीवाणु अधिकारी

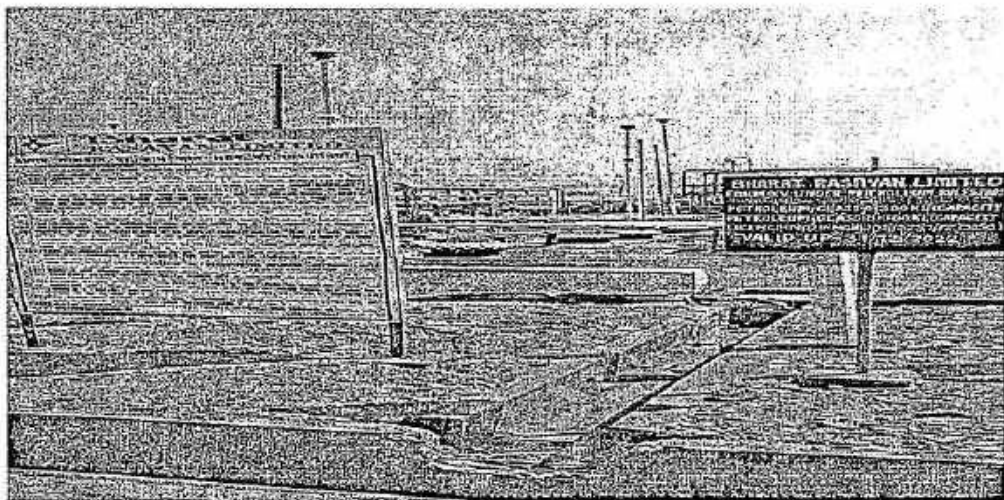
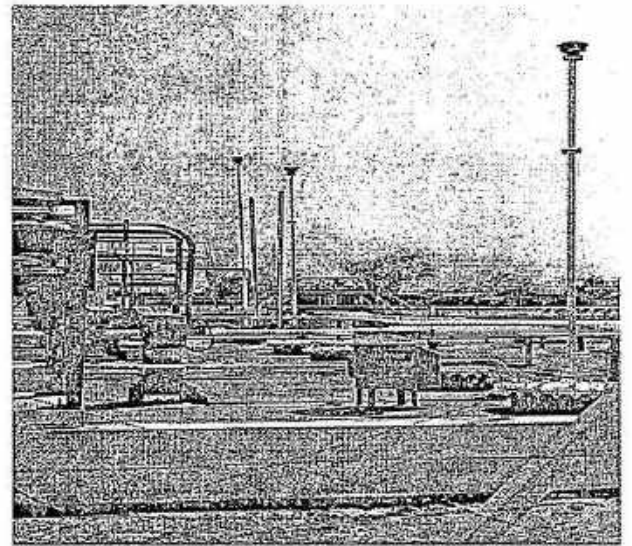
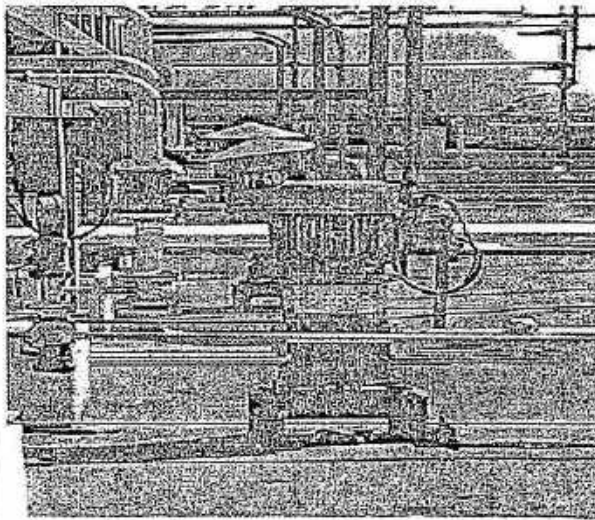
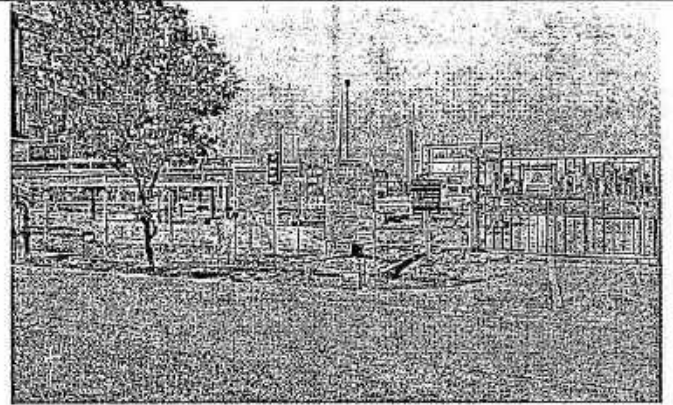
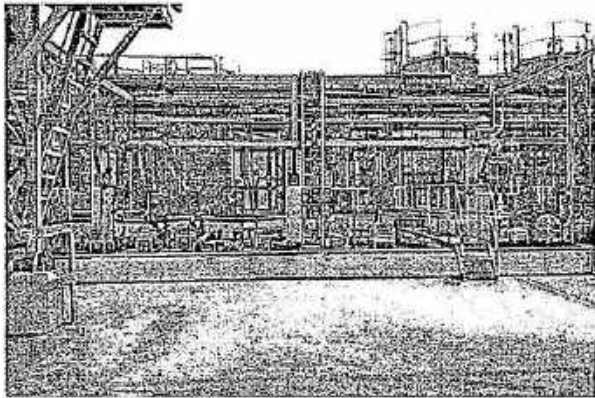
Month - 12
 12/01/22

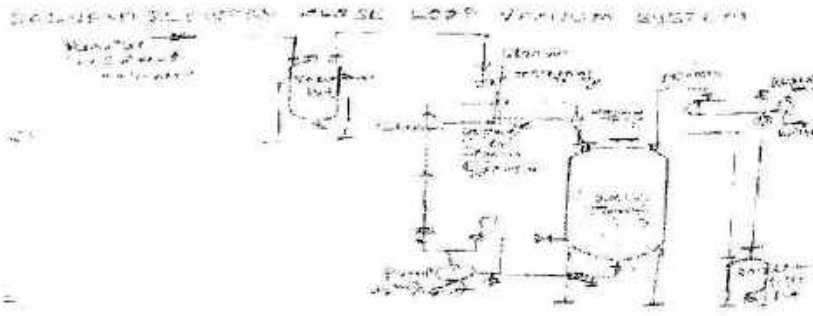
TWA concentration/As given in Second Schedule	Reference Method	Number of Workers exposed at the location being monitored specified above	Remarks	Signature person doing samples against job card	Name (in block letters)
8	9	10	11	12	13
01	Impinger method	02		GM Limit by Impinger	Dr. A. K. Mishra

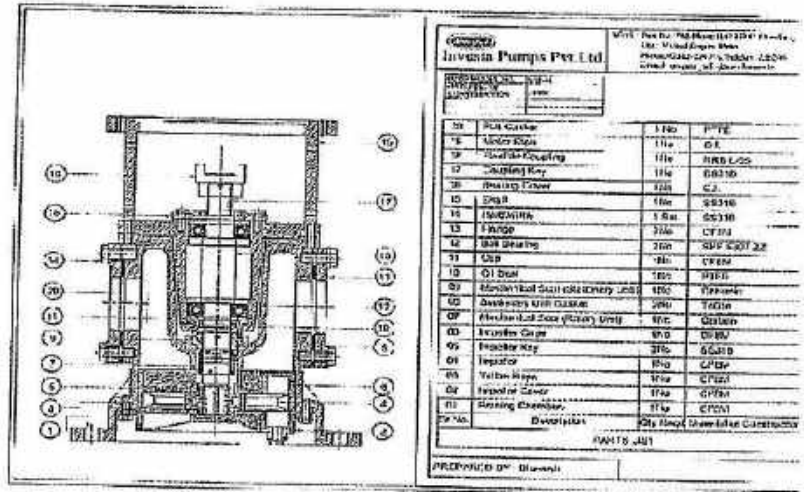
Checked by: A. K. Mishra

ix	<p>Solvent management shall be as follow:</p> <p>A. Reactor shall be connected to chiller brine condenser system</p> <p>B. Reactor and solvent handling pump shall have mechanical seals to prevent leakages</p> <p>C. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery</p> <p>D. Solvent shall be stored in a separate space specified with all safety measures</p> <p>E. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>F. Entire plant where solvent are used shall be flame proof. The solvent storage tanks shall be provided with breather with breather valve to</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>A. Yes, we have our own utilities and provided Brine/Chilling condenser and Column to reactors.</p> <p>B. Yes, all the pumps installed in plants are having standard mechanical seal</p> <p>C. Yes, the condensers are having sufficient Heat Transfer Area (HTA) and recovery more than 95% achieving.</p> <p>D. Solvent are stored in a separate space specified with all safety measures.</p> <p>E. Proper earthing are provided in all the electrical equipment wherever solvents handling are done</p> <p>F. All plant area are been flame proof and the solvent storage tank are provided with breather valve to prevent losses as per PESO guideline.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
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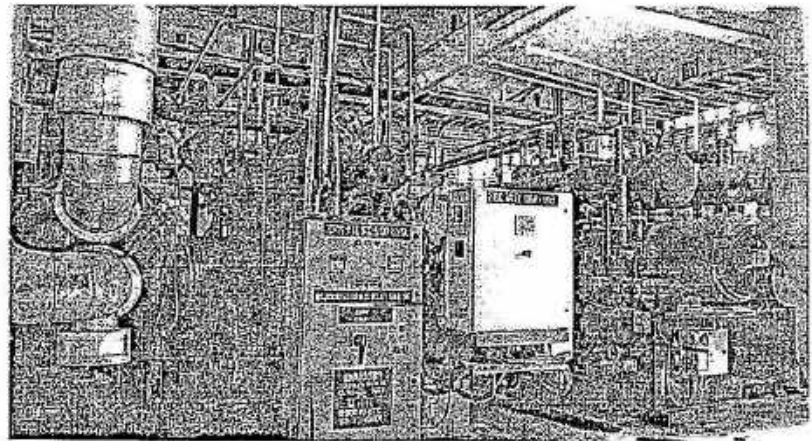
prevent losses.



<p>xi</p>	<p>All the storage tanks will be under negative pressure to avoid any leakages, breather valves, N2 blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw materials shall be stored in storage tanks and drums.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>All the chemicals which must be stored under negative pressure (as per PESO requirements) are stored in storage tanks under negative pressure to avoid any leakages.</p> <p>We have been provided the spark arrestor, breather system, N2 Blanketing, condensers and chilling for all the tanks to minimize vapour losses.</p> <p>We have been provided the closed handling systems for chemicals & solvents</p>  <p>We have provided multi spring, carbon phase, silicon carbide, o ring and gasket seals for pumps and agitators.</p> <p>TO minimize the use of Drums, we are storing most of liq. RM in tanks and few LRM are being stored in dedicated drums (suitable MOC)</p>
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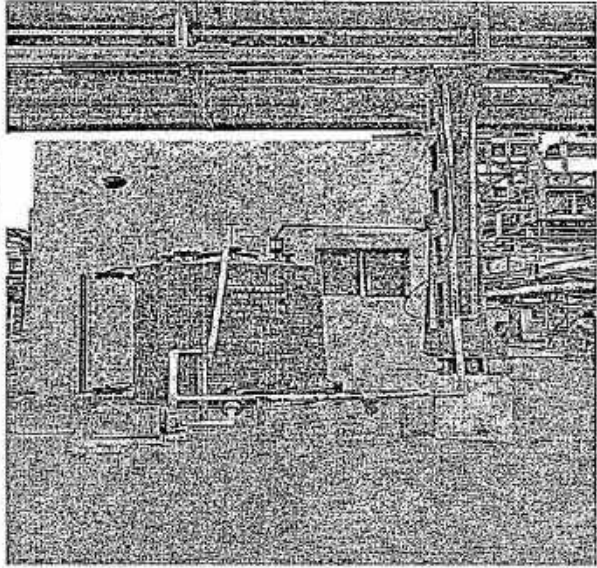


We have been provided Chilled brine based condensers



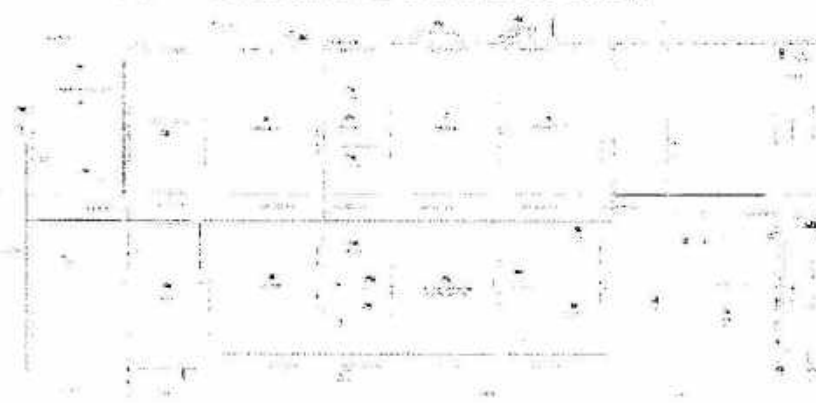
In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.

COMPLIED

<p>xii</p>	<p>All venting equipment shall have vapour 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. The detectors sensitivity will be in ppm levels.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>For LDAR program, we are monitoring the Total VOCs by our ION SCIENCE meter and maintaining the reports and also control by in house facility i.e. Deodorant system, Industrial Hygiene Survey curtain/ close loop, etc.</p>  <p>The analysis reports are given in below table at point No. xiv</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied subject to submission of elaborated compliance on the contents of the stipulated condition with specific details particularly w.r.t. vapour recovery system.</p> <p>COMPLIED SUBJECT TO CONDITION</p>
<p>xiii</p>	<p>During transfer of materials, spillage shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>During transfer of materials, spillages are being avoided.</p> <p>Garland drains / dyke walls in plants were constructed to avoid mixing of accidental spillages with domestic waste and storm drains.</p>

and storm drains.

Plan for storm water drain is attached as below



In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.

COMPLIED

The company shall make adequate arrangement for control of odour nuisance from the plant premises.

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

Complies as we are monitoring Total VOCs by our ION SCIENCE meter within company premises and control the abnormal situation if any found and kept the records.

xiv

T.V.O.C VALUE : OCT-2018 TO MAR-2019			
Sr. NO	Location	T.V.O.C VALUE IN PPM	
		MIN	MAX
1	Main Security Gate	0.0	0.8
2	TOC Room Area	0.0	0.5
3	R.M Store	0.0	1.7
4	Boiler Behind	0.0	0.7
5	Plant -C Ground Floor	0	2.8
6	Plant -C 1 Floor	0	5.9
7	Plant- C -2 Floor	0	3.9
8	Plant- C- terraces Floor	0.0	4.8
9	Plant - A Ground Floor	0	30
10	Plant- A- 1 Floor	0.2	6.2
11	Plant - A- 2 FLOOR	0.1	4.6
12	Plant- A- terraces Floor	0.0	4.8
13	Plant-A - Enje. C/T	0	5.9

14	Plant - B Ground Floor	0	13
15	Plant - B- 1/Floor	0	3.9
16	Plant -B - 2 / Floor	0	3.2
17	Plant- B- terraces Floor	0.0	4.9
18	Plant- B- Back Side	0	4.2
19	Explosive Tank Farm Area	0.0	3.1
20	Hazard West Area	0	4.9
21	ETP(MEE)	0	6
22	DVP- Scrubber	0	15
23	QC Lab	0.0	4.9
24	Plant -B- R-325 Bottom	0	3.8
25	Plant-C- Enje. C/T	0	4.1
26	Plant- A Back Side	0.0	3.9
27	Plant- C Back Side	0	2.7
28	H.T Room -1	0.0	0.5
29	pump house	0.0	4.1
30	E.T.P Back side	0	4.0
31	Incinerator area	0.0	1.1

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

COMPLIED



ION SCIENCE TOTAL VOC CHECK METER

Budget Allocation Sheet			
Sr.No.	Particulars	Amount	Unit
1	Water Pollution Control	463.80	Rs. Lacs
2	Air Pollution Control	7.20	Rs. Lacs
3	Noise Pollution Control	0.00	Rs. Lacs
4	Other	0.00	Rs. Lacs
5	Total	471.00	Rs. Lacs

Budget Allocation Sheet			
Sr.No.	Particulars	Amount	Unit
1	Water Pollution Control	463.80	Rs. Lacs
2	Air Pollution Control	7.20	Rs. Lacs
3	Noise Pollution Control	0.00	Rs. Lacs
4	Other	0.00	Rs. Lacs
5	Total	471.00	Rs. Lacs

The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguard. Fund so earmarked shall not be diverted for any other purposes.

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

Complied as we have been earmarked funds for environment management/ pollution control measures and is not be diverted for any other purposes. We have allotted sufficient funds for pollution control measures and strengthen EMS.

Funds for year	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
Year 2013 to Sept.2018	1469.93	397.98

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

COMPLIED

Environment Budget Allocation Sheet

From 01.10.2018 to 31.03.2019

Sr.No.	Particulars	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
1	Air Pollution Control	7.20	0.00
2	Water Pollution Control	463.80	302.00
3	Noise Pollution Control	0.00	0.00

4	Environment Monitoring & Management	29.60	0.00
5	Reclamation Borrow/ Mined Area	0.00	0.00
6	Occupational	9.93	0.00
7	Green Belt	0.91	0.00
8	Others [Pl. Specify] Manpower cost	62.60	0.00
TOTAL Cost in [Rs. In lac]		574.04	302.00

xvi	<p>Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the factories act.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Complied as Medical check-up of each employee and workers are being carried out on every six monthly by M/s. OM Clinic, Dr. Nirma Vasava, MBBS & C.I.H., G-34771, Occupational Health Centre Bharuch</p> <p>Periodic Medical Check-up of employees and workers = 328 Nos.</p> <p>Following Tests were carried out:</p> <ol style="list-style-type: none"> 1) Physical test 2) General Examination like Temp., Pulse, Pressure, & others 3) Systemic Examination like CVS, R/S, A/S, CNS, ENT, Skin Musculoskeletal, Genitourinary 4) Vision Testing 5) ECG, X Ray & Sonography 6) LFT 7) Audiometry 8) Haemogram Profile <p>No occupational health related abnormality of any employees and workers is found during the medical check-up. All employees and workers were found fit.</p> <p>A case of health check-up of Occupational health surveillance of the</p>
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employee is given below;

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

COMPLIED

Dr. Nirmal B. Vastava
MBBS, MD, FRCS
DIPLOMA IN GERIATRICS
DIPLOMA IN HEPATOLOGY
DIPLOMA IN NEPHROLOGY
DIPLOMA IN RADIOLOGY
DIPLOMA IN SURGERY
DIPLOMA IN ANAESTHESIA
DIPLOMA IN INTENSIVE CARE
DIPLOMA IN PAIN MANAGEMENT
DIPLOMA IN SPORTS MEDICINE
DIPLOMA IN VASCULAR MEDICINE
DIPLOMA IN CLIMATE CHANGE AND HEALTH
DIPLOMA IN PUBLIC HEALTH
DIPLOMA IN COMMUNITY MEDICINE
DIPLOMA IN OCCUPATIONAL MEDICINE
DIPLOMA IN FORENSIC MEDICINE
DIPLOMA IN TRANSPLANT MEDICINE
DIPLOMA IN REPRODUCTIVE MEDICINE
DIPLOMA IN INFECTIOUS DISEASES
DIPLOMA IN ALLERGY AND IMMUNOLOGY
DIPLOMA IN RHEUMATOLOGY
DIPLOMA IN ENDOCRINOLOGY
DIPLOMA IN NEUROLOGY
DIPLOMA IN PSYCHIATRY
DIPLOMA IN RADIOLOGY
DIPLOMA IN SURGERY
DIPLOMA IN ANAESTHESIA
DIPLOMA IN INTENSIVE CARE
DIPLOMA IN PAIN MANAGEMENT
DIPLOMA IN SPORTS MEDICINE
DIPLOMA IN VASCULAR MEDICINE
DIPLOMA IN CLIMATE CHANGE AND HEALTH
DIPLOMA IN PUBLIC HEALTH
DIPLOMA IN COMMUNITY MEDICINE
DIPLOMA IN OCCUPATIONAL MEDICINE
DIPLOMA IN FORENSIC MEDICINE
DIPLOMA IN TRANSPLANT MEDICINE
DIPLOMA IN REPRODUCTIVE MEDICINE
DIPLOMA IN INFECTIOUS DISEASES
DIPLOMA IN ALLERGY AND IMMUNOLOGY
DIPLOMA IN RHEUMATOLOGY
DIPLOMA IN ENDOCRINOLOGY
DIPLOMA IN NEUROLOGY
DIPLOMA IN PSYCHIATRY

OM Clinic

Dr. Rishi K. Sharma
MBBS, MD, FRCS
DIPLOMA IN GERIATRICS
DIPLOMA IN HEPATOLOGY
DIPLOMA IN NEPHROLOGY
DIPLOMA IN RADIOLOGY
DIPLOMA IN SURGERY
DIPLOMA IN ANAESTHESIA
DIPLOMA IN INTENSIVE CARE
DIPLOMA IN PAIN MANAGEMENT
DIPLOMA IN SPORTS MEDICINE
DIPLOMA IN VASCULAR MEDICINE
DIPLOMA IN CLIMATE CHANGE AND HEALTH
DIPLOMA IN PUBLIC HEALTH
DIPLOMA IN COMMUNITY MEDICINE
DIPLOMA IN OCCUPATIONAL MEDICINE
DIPLOMA IN FORENSIC MEDICINE
DIPLOMA IN TRANSPLANT MEDICINE
DIPLOMA IN REPRODUCTIVE MEDICINE
DIPLOMA IN INFECTIOUS DISEASES
DIPLOMA IN ALLERGY AND IMMUNOLOGY
DIPLOMA IN RHEUMATOLOGY
DIPLOMA IN ENDOCRINOLOGY
DIPLOMA IN NEUROLOGY
DIPLOMA IN PSYCHIATRY

MEDICAL CHECKUP CERTIFICATE

This certificate is issued to:
Name: **MANI SHANKAR PASWAN** Age: **41** Years
Gender: **Male** Date of Birth: **11.01.1977**
Job Title / Occupation: **ON PRODUCTION SUPERVISOR**
Address: **Dharm Rasayan Ltd. Durg**

This is to certify that I have personally examined the candidate as mentioned above. Based on the examination of his/her health, I certify that he/she is fit to perform the above mentioned job. I also certify that the above mentioned candidate is not suffering from any communicable disease and is not under any medical treatment as mentioned above. It is valid only for the purpose mentioned above.

Date: _____
Signature of Doctor: _____

Ami Laboratory
110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000

HEALTHY

Ami Laboratory
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

Ami Laboratory
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

Ami Laboratory
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

OM Clinic
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

PARAM X-RAY & SONOGRAPHY CLINIC
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

Fluoroscopic

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]

PARAM X-RAY & SONOGRAPHY CLINIC
 1101 S. 1st St. Suite 100
 Phoenix, AZ 85026
 Phone: (602) 254-1101

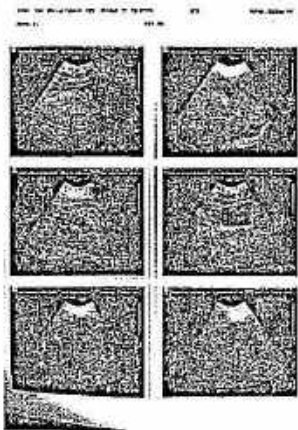
APPOINTMENT: 11/11/11
 NAME: [REDACTED]
 MR. [REDACTED]

LABORATORY REPORT

TESTS: [REDACTED]

RESULTS: [REDACTED]

PHYSICIAN: [REDACTED]



xvii

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

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

Complied as we have been designed process reactors/ Vessels after Hazop study and installed with all the safety guidelines. In case of any emergency, we have been provided Fire Hydrant systems in loop with jockey pumps. Also provided adequate various types of fire extinguishers.

Other fire fighting facilities have been installed at site:

- Fire load calculation is being carried out and Fire Extinguishers at different locations are provided.
- Working staff will be given training to operate extinguishers.
- Sufficient Fire Hydrant Network has been installed as per the calculated requirement for fire fighting.
- ERT members are recruited from all plants and regularly training them with Mock drills.
- First Aid Training is imparted to employees by designated first aid trainers.

In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.

COMPLIED

▪

FIRE & SAFETY EQUIPMENT DETAILS

LOCATION OF S.C.B.A SETS IN THE COMPANY

Location of Self-contained Breathing Apparatus in the company is as below

Sr.No	Location	Qty in Nos	Make
1	Chlorine Yard	1	Venues
2	Chlorine Yard	1	Venues
3	Plant A - Ground	1	Scott
4	Plant B - Ground	1	Scott
5	Plant C - Ground	1	Scott
6	Safety Office at utility	1	Scott
TOTAL IN NOS		06	

DETAILS OF FIRE HYDRANT SYSTEM

1. Fire water capacity: 900 m³
2. Main Pump Capacity: 273 m³/hr. 70 meter Head, 1800 rpm, Kirloskar Make
3. Jockey Pump Capacity: 11 m³/hr. 70 meter Head, wilo Make
4. Diesel Pump Capacity: 273 m³/hr. 70 meter Head, Kirloskar Make

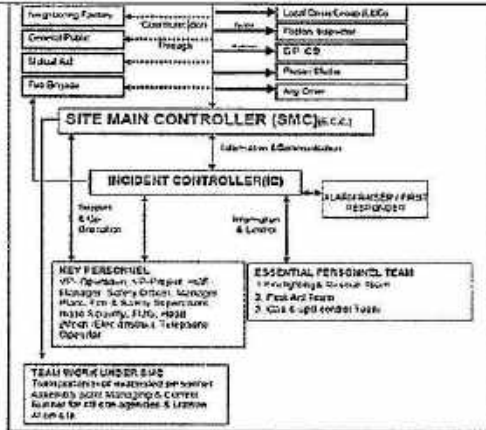
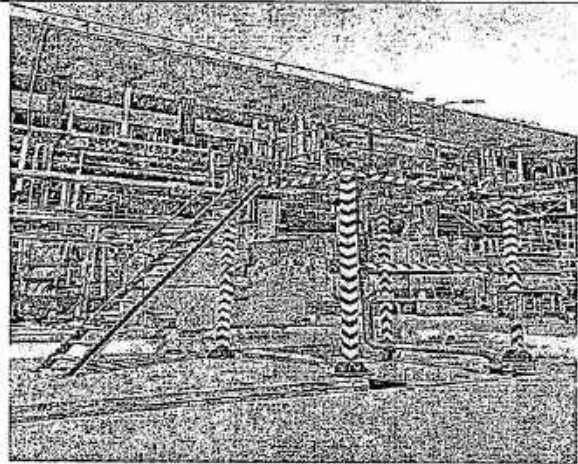
Sr. No	Name of Pump	Starting (on) water pressure	Stopped (close) water pressure
01	Jockey pump	05 kg /cm ²	07.5 kg /cm ²
02	Main Electrical pump	4.5 kg /cm ²	Manually Stopped
03	Diesel Pump	04 kg /cm ²	Manually Stopped

EHS – Equipment list

Sr, no	Equipment Name	Qty	Remarks / available
1	Fire Hydrant	37	All Ground Floors.
2	Water Monitor	06	
3	Water / Foam Monitor	04	Near Explosive tank Farm Area.
4	Hose Reel Hose	29	All – 03 Plant in side

5	Water Sprinkler system	01+01+1+01=04	DMA Tank Farm Area + Plant – C Hold tank Area (2 nd Floor) & day tank+ IB storage tank farm area
6	Chemical Spill Kit	06	
7	Foam Trolley	04	
8	Chlorine kit (cl ₂)	02	
9	SCBA Set	06	
10	Foam Solution (AFFF)	2000 ltr	
11	Exp. Meter (potable)	01	Dragger – Make
12	Oxygen Meter (potable)	01	Honeywell
13	VOC Meter	01	ion
14	Safety Net	20	
15	Fire Blanket	06	06

Sr. No.	SUMMARY OF TOTAL FIRE EXTINGUISHER	Capacity	QTY
1	Co2	04.5 Kg	62 Nos.
2	Co2	22.5 Kg	2 Nos.
3	DCP	06.0 KG	72 Nos.
4	DCP	50.0 KG	16 Nos.
5	AFFF	09.0 Ltr	61 Nos.
6	AFFF	50.0 Ltr	13 Nos.
	Total		226 Nos.



xviii

Training shall be imparted to all employees on safety and health aspects of

Project Proponent vide letter dated 17.06.2019 received in MOEF & RO Bhopal on 17.06.2019 submitted the following:

Complied as we are giving training to all employees & workers

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

COMPLIED

WILMAY BARAVAN LIMITED
414, 118C, D'Almeida Road, Maratha (Industrial) Estate, Madurai

TRAINING ATTENDANCE RECORD

Subject: Safety Training
Topic: Safety Training
Date: 12/11/19
Venue: ...
Trainers: ...

(1) On-site training (2) At one making vehicle
 (3) Workshop/Workshop (4) Training from external agencies
 (5) On-site training (6) Training on new Documentation
 (7) Training in ERP (8) Other

No.	Employee's Name	Employee Code	Department	Employee's Signature
1	Vijay D. Dadao	4100	Plant A	[Signature]
2	Ashwin B. Bala	4095	Plant B	[Signature]
3	S. V. Kumar	4073	Plant B	[Signature]
4	Deepak Kumar	4145	Plant B	[Signature]
5	Santhosh K. S.	4092	P-3	[Signature]
6	Rama	4185	P-2	[Signature]
7	Sanjay P. Sharma	4174	P-1	[Signature]
8	Ajit Manjank	4091	P-5	[Signature]
9	Shabir Didi	4166	P-5	[Signature]
10	Sanjay K.	4187	P-5	[Signature]
11	Sanjay K. Sharma	4187	P-5	[Signature]
12	Sanjay K. Sharma	4187	P-5	[Signature]
13	Sanjay K. Sharma	4187	P-5	[Signature]
14	Sanjay K. Sharma	4187	P-5	[Signature]
15	Sanjay K. Sharma	4187	P-5	[Signature]
16	Sanjay K. Sharma	4187	P-5	[Signature]
17	Sanjay K. Sharma	4187	P-5	[Signature]
18	Sanjay K. Sharma	4187	P-5	[Signature]
19	Sanjay K. Sharma	4187	P-5	[Signature]
20	Sanjay K. Sharma	4187	P-5	[Signature]

Date: 12/11/19
Page No: 1050372-01

WILMAY BARAVAN LIMITED
414, 118C, D'Almeida Road, Maratha (Industrial) Estate, Madurai

EVALUATION SHEET FOR WRITTEN QUESTIONS

Name: ...
Employee Code: ...
Topic: ...
Date: ...

QUESTIONS

1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...

ANSWERS

1. ...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...

Remarks: ...
Satisfactory: ...
Date: ...

Page No: 1050372-01

MAHARAJA UNIVERSITY

BHARAT RASAYAN LIMITED
424, GIDC, Bhat, Bhavnagar District, Gujarat

TRAINING ATTENDANCE RECORD

Subject: Handing over of Works

Faculty: Prof. Dr. J. K. Patel Date: 16.06.19

Topic: Handing over of Works Duration: 1 Hr

Sl. No. of students: 10 (If not applicable)

(1) Training mode: (A) In-house training (2) (B) Training by external agencies

(3) Training mode: (A) In-house training (2) (B) Training by external agencies

(4) Training mode: (A) In-house training (2) (B) Training by external agencies

Sl. No.	Employee's Name	Employee's Date	Department	Employee's Signature
1	Sanjay Singh	16/06/19	Plant A	[Signature]
2	Ramji Singh	16/06/19	Plant A	[Signature]
3	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
4	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
5	Sanjay Singh	16/06/19	Plant B	[Signature]
6	Sanjay Singh	16/06/19	Plant B	[Signature]
7	Sanjay Singh	16/06/19	Plant B	[Signature]
8	Sanjay Singh	16/06/19	Plant B	[Signature]

Sign of the Faculty: [Signature] Date: 16.06.19

Form No. HR/HR/001 Form No. HR/HR/001

BHARAT RASAYAN LIMITED
424, GIDC, Bhat, Bhavnagar District, Gujarat

TRAINING ATTENDANCE RECORD

Subject: Handing over of Works

Faculty: Prof. Dr. J. K. Patel Date: 16.06.19

Topic: Handing over of Works Duration: 1 Hr

Sl. No. of students: 10 (If not applicable)

(1) Training mode: (A) In-house training (2) (B) Training by external agencies

(3) Training mode: (A) In-house training (2) (B) Training by external agencies

(4) Training mode: (A) In-house training (2) (B) Training by external agencies

Sl. No.	Employee's Name	Employee's Date	Department	Employee's Signature
1	Sanjay Singh	16/06/19	Plant A	[Signature]
2	Ramji Singh	16/06/19	Plant A	[Signature]
3	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
4	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
5	Sanjay Singh	16/06/19	Plant B	[Signature]
6	Sanjay Singh	16/06/19	Plant B	[Signature]
7	Sanjay Singh	16/06/19	Plant B	[Signature]
8	Sanjay Singh	16/06/19	Plant B	[Signature]

Sign of the Faculty: [Signature] Date: 16.06.19

Form No. HR/HR/001 Form No. HR/HR/001

MAHARAJA UNIVERSITY

BHARAT RASAYAN LIMITED
424, GIDC, Bhat, Bhavnagar District, Gujarat

TRAINING ATTENDANCE RECORD

Subject: Handing over of Works

Faculty: Prof. Dr. J. K. Patel Date: 16.06.19

Topic: Handing over of Works Duration: 1 Hr

Sl. No. of students: 10 (If not applicable)

(1) Training mode: (A) In-house training (2) (B) Training by external agencies

(3) Training mode: (A) In-house training (2) (B) Training by external agencies

(4) Training mode: (A) In-house training (2) (B) Training by external agencies

Sl. No.	Employee's Name	Employee's Date	Department	Employee's Signature
1	Sanjay Singh	16/06/19	Plant A	[Signature]
2	Ramji Singh	16/06/19	Plant A	[Signature]
3	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
4	Chandrabh Sekh. Red	16/06/19	Plant B	[Signature]
5	Sanjay Singh	16/06/19	Plant B	[Signature]
6	Sanjay Singh	16/06/19	Plant B	[Signature]
7	Sanjay Singh	16/06/19	Plant B	[Signature]
8	Sanjay Singh	16/06/19	Plant B	[Signature]

Sign of the Faculty: [Signature] Date: 16.06.19

Form No. HR/HR/001 Form No. HR/HR/001

xix	Usage of PPEs by all employees/ workers shall be ensured.	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following: We have provided the PPEs to each employees as well as worker on
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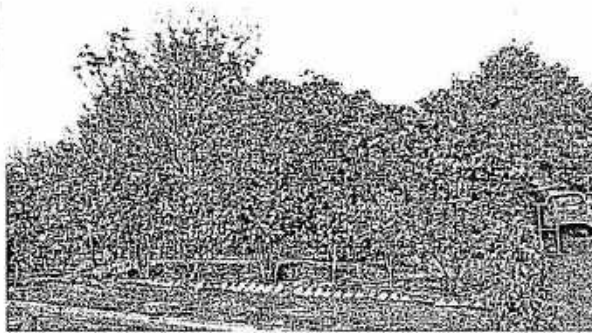
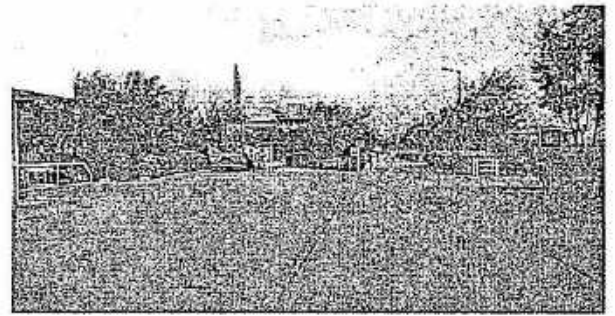
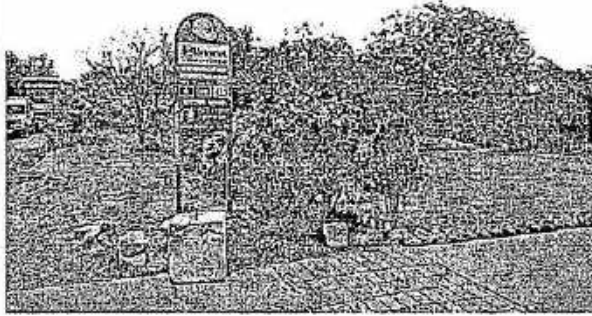
		<p>regular basis.</p> <p>List of PPEs and consumption during six months;</p> <ul style="list-style-type: none"> ▪ Industrial Safety Helmet -200 Nos. ▪ Face shield - 20 Nos. ▪ Ear muffs Ear plug 3m - 8 Nos.; ▪ Safety belt/line man's safety belt - 2 Nos. ▪ Leather hand gloves -3 Nos.; ▪ Acid/Alkali proof rubberized hand gloves -11827 Nos. ▪ Cotton hand gloves with leather palm -126 Nos. ▪ Industrial safety shoes with steel toe – 293 Nos. ▪ Goggles punk/over glass – 93/265 Nos. <p>In view of the information furnished by the PP and as per the site observation that PPE are being used by the workers, the stipulated condition is considered complied.</p> <p>COMPLIED</p>												
xx	<p>The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP)</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Please see the below table with action taken</p> <p>In view of the information furnished by the PP, i.e., detailed compliance of CREP recommendations furnished below, the stipulated condition is considered complied subject to clarity on replacement of Bio Assay test by toxicity Factor test.</p> <p>COMPLIED SUBJECT TO CONDITION</p>												
	<table border="1"> <tr> <td colspan="3" data-bbox="193 1525 1410 1585">CHARTER ON CORPORATE RESPONSIBILITY FOR ENVIRONMENT PROTECTION (CREP)-2003</td> </tr> <tr> <td colspan="3" data-bbox="193 1585 1410 1653"><u>10.0 PESTICIDES INDUSTRY</u></td> </tr> <tr> <td data-bbox="193 1653 272 1720"></td> <td data-bbox="272 1653 772 1720"></td> <td data-bbox="772 1653 1410 1720"><u>Action Taken/ Compliance</u></td> </tr> <tr> <td data-bbox="193 1720 272 1953">1</td> <td data-bbox="272 1720 772 1953">Segregation waste streams Waste streams should be segregated into COD waste, toxic waste, low COD waste, inorganic waste etc. for the purpose of providing appropriate treatment-Implementation June 2003 and action</td> <td data-bbox="772 1720 1410 1953">We have segregated the streams of Concentrated Effluent, Dilute Effluent and STP which are been treated through Stripper-MEE-ATFD-Biological as well as Tertiary as RO and the organic residue are sent to RSPL for Co-processing, SEPPL, Kutch & BEIL for common Incineration with valid CC&A No.</td> </tr> </table>		CHARTER ON CORPORATE RESPONSIBILITY FOR ENVIRONMENT PROTECTION (CREP)-2003			<u>10.0 PESTICIDES INDUSTRY</u>					<u>Action Taken/ Compliance</u>	1	Segregation waste streams Waste streams should be segregated into COD waste, toxic waste, low COD waste, inorganic waste etc. for the purpose of providing appropriate treatment-Implementation June 2003 and action	We have segregated the streams of Concentrated Effluent, Dilute Effluent and STP which are been treated through Stripper-MEE-ATFD-Biological as well as Tertiary as RO and the organic residue are sent to RSPL for Co-processing, SEPPL, Kutch & BEIL for common Incineration with valid CC&A No.
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	plan to be submitted to SPCB immediately.	AWH-90645 Valid up to 11/10/2022.
2	Detoxification and treatment of high COD waste 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.	Cyanide effluent streams are segregated and treated with sodium hypo chlorite and sent to MBE with nil CN contains report.
3	Improvement in solvent recovery	
a	Solvent recovery should be improved and attempts 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.	Complies as the solvent recovery is more than 95% and
b	Rest of the solvents which cannot be recovered shall be incinerated	Complies as the Solvent residues are sent to Co-processing at RSPL, SEPPL, Kutch & BEIL for common Incineration with valid CC&A No. AWH-90645 Valid up to 11/10/2022.
5	Hazardous air pollutant control	
a	For air pollution control from processes, scrubber efficiency will be improved and maintained as per the best practicable technology for control of HCl, Cl. Methyl Chloride, Phosphorus Pentoxide, Ammonia, H ₂ S and volatile organic carbons (VOCs) - Implementation by December 2003 and action plan to be submitted to SPCB by June 2003.	We have been developed facilities as well as system for segregation, collection, storage of wastes and disposal as per Hazardous Waste Rules 2009 & amended in 2016. Dedicated storage yard with RCC flooring and Roof Top has been be made for Incinerable / Co-incinerable organic wastes and landfill wastes for sending to common TSDF sites. Two stage scrubber system has been installed at all process stacks and the results found satisfactory.
b	An incinerator will be installed, where necessary - Implementation by	Incinerator has already been installed with Valid CTE from GPCB No. :GPCB/BRCH-B-CCA-50 (7)/ ID

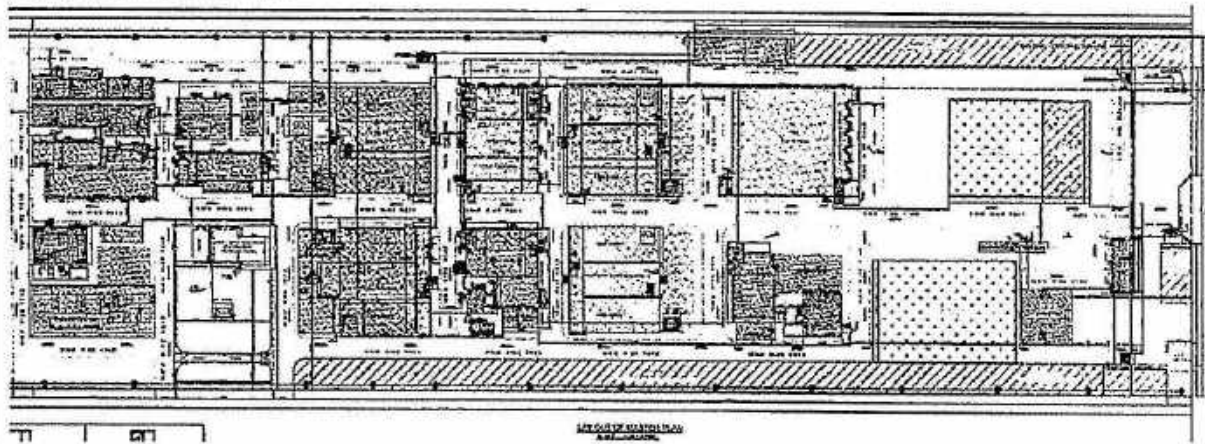
	December 2004 and action plan to be submitted to SPCB by June 2003.	- 33612/333486 Dtd 2/12/2015, however our organic waste are sent to Co-Processing site at RSPL, hence we are not used in house incinerator.
6	Control of fugitive emissions/ VOCs For control of fugitive emissions (particularly) for hazardous air pollutants). The industries will adopt standard engineering practices. System of leak detection and repair (LDAR) programme especially for solvents, should be developed industries-implementation by March2004 and action plan to be submitted to SPCB by June 2003.	We have provided two stage condenser system for the process vessels (primary condenser with cooling water and secondary condenser with chilled brine) where solvent recovery operations are carried out. All the solvent tanks are having breather valve and tank vents and condensers are connected to the chillers. All the solvent operations are been in closed loop to prevent losses. Further to control fugitive emissions, we have installed pumps with Carbon phased Mechanical seals with O ring and monitoring the Total VOCs with ION Science meter.
2	Up- gradation of incinerators will be upgraded to meet CPCB norms hazardous waste incinerators. This is necessary for Halogenated compound and POPs – Implementation target will be decided on the basis of action plan submitted by individual industries by June 2003.	Incinerator has already been installed with Valid CTE from GPCB No. :GPCB/BRCH-B-CCA-50 (7)/ ID - 33612/333486 Dtd 2/12/2015 however our organic waste are sent to Co-Processing site at RSPL, hence we are not used.
8	Replacement of Bio Assay test by toxicity Factor The present bio-assay test will be replaced by Toxicity Factor test method developed 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/CPCB/ MoEF-Submission of action plan by June 2003. The Central Pollution Board will organize work - shops on "Toxicity Factor" for industry.	We are carried out Bio assay test on monthly basis by Third party of M/s. Siddhi Green Excellence Pvt ltd. Ankleshwar (Recognized NABL Laboratory no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021).

	<p>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.</p>	<p>Pollution control equipment as Stripper, MBE, ATFD, RO, Two Stage Scrubbers, ESP, Bag filters and Suitable utilities are provided</p>	
	<p>10 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 speedy clearance and other will be considered by MoEF/ CPCB for examination.</p>	<p>We have obtained valid EC from MoEF New Delhi and valid CTE & CTO from GPCB.</p>	
<p>xxi</p>	<p>The company shall adopt waste minimization/ cleaner production techniques to reduce the pollution load and action plan in this regard submitted to the ministry.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>GUJARAT CLEANER PRODUCTION CENTRE -Gandhinagar with UNIDO has been carried out the project under "RECP Pilot Project to foster Eco-Industrial Development in Eco-Industrial Parks in India at Dahej".and the Observations & Suggestions about our four products have been provided.</p> <p><u>Observations & Suggestions for m-Phenoxybenzaldehyde</u></p> <ol style="list-style-type: none"> 1. The yield of 1st step to form m – bromo Benzaldehyde seems to be 94%, which is good and acceptable. 2. But, in 2nd step formation of m – bromo Benzaldehyde acetal under Dean & Stark method to remove water (by product) formed to be followed precisely, then treating with phenol in presence of aq. KOH to form m – phenoxy Benzaldehyde acetal, followed by hydrolysis in presence of sulphuric acid. 3. Fractional distillation of m-phenoxy Benzaldehyde & toluene to be done carefully. 4. Before that, layer separation to be done by giving enough time with enough care. <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>	

xxii	<p>The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water and to reduce requirement of the fresh water.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>Water harvesting is the most useful tools for Water conservation however our company is situated at near SEA area, hence underground water table is salty and not suitable for bore well.</p> <p>According to Water conservation, we have developed Rooftop water collection and Reuse system connected with our Admin office as well as RM store and the water is being stored and re used for Boile through DM plant.</p> <p>In view of the information furnished by the PP and the justification provided w.r.t ground water recharge, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
xxiii	<p>Green belt shall be developed in an area of 4 acres around the plant and selection of plant species shall be as per the CPCB guidelines.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>It is a continuous process as more than 6620 plants have been planted.</p> <ul style="list-style-type: none"> - Total Plant area – 105000 M² - Total Build-up Plot area – 45714 M² - Total Greenbelt area – 34792 M² <p>Please see the below Photographs of Greenbelt & BRL Plant Layout;</p> <p>In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.</p> <p>COMPLIED</p>



Plant Layout of BRL



xxiv

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

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

We have been constructed our site by Local contractors and some of the outside labours were living in colony with sufficient arrangements like Water, Drinking Water, Toilet Blocks and other required amenities. Now, there is No any labour colony in the company premises.

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

	drinking water, medical health care, crèche etc. the housing may be in form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	deemed complied. DEEMED COMPLIED
A	GENERAL Conditions	Compliance
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following: We agree with the condition and having valid CC&A Order No AWH -90645 dated 22/01/2018 and valid up to 11/10/2022. The CC&A compliance report is attached as <u>Annexure 3</u> in the main report In view of the information furnished by the PP, i.e., detailed compliance of CCA furnished the stipulated condition is considered complied. COMPLIED SUBJECT TO CONDITION
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	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following: We agree with the condition and No expansion / modification take place in plant without prior approval of the Ministry of Environment and Forests / GPCB. In view of the information furnished by the PP and as per the site observation, the stipulated condition is considered complied.

	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.	COMPLIED
iii	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We have installed online stack monitoring system at all plant & boiler and the controls are provided in respective plant control room with hooter/Alarm.</p> <p>We have controlled the emission levels and maintain below permissible limits. The ambient air quality monitoring and stack monitoring summary are provided in below point No. V. In case of any increase in pollutants beyond permissible limits, we have the auto system and hooter to stop the plant.xii</p> <p>In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
v	The gaseous emissions (NO _x , SO ₂ and SPM) and particulate matter along with RSPM levels from various process units shall conform to	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>The gaseous emissions (SO₂, NO_x, VOC, HC, Cl₂ and HCl) along with SPM and RSPM from various process units are conform to the standards prescribed by the concerned authorities.</p>

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. Stack monitoring for SO₂, NO_x and SPM shall be carried.

We have appointed Third party - M/s. Siddhi Green Excellence Pvt. Ankleshwar (Recognized NABL Laboratories no. NABL/TC-500 dated 20/03/2019 and valid up to 27/03/2021) is recognized by Gujarat Pollution Control Board for monthly monitoring on regular basis.

Efficiency of scrubbers are being monitored regularly and maintained properly. We have provided the on line sensors & detection system are provided and the reports are kept with us and we have provided the alarm/hooter system to indicate higher than permissible value of controlled parameters.

We have control the emission levels and maintain below permissible limits. In case of any increase in pollutants beyond permissible limits we have the auto system and hooter to stop the plant.

We have been submitted the stack monitoring reports to Regional Office, MoEFCC, Bhopal with our earlier EC compliance reports.

Hereby, we are submitting the stack monitoring reports for the March, 2019.

Results are given below:

In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.

COMPLIED

Month of Oct-18 to Mar-2019 Boiler

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	85	135	110	150 mg/Nm ³
SO ₂	40	52	46	100 ppm
NO _x	32	40	36	50 ppm

Month of Oct-18 to Mar-2019 Process vent -1

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	4.5	7.2	5.85	20 mg/Nm ³
Cl ₂	2	3	2.5	5 mg/Nm ³
HBr	BDL	BDL	BDL	5 mg/Nm ³
Br ₂	BDL	BDL	BDL	2 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent -

Parameter	Result			GPCB Norms
	Min	Max	Avg	
H2S	BDL	BDL	BDL	5 mg/Nm ³
VOC as BTX*	BDL	BDL	BDL	---
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent - Plant: B

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	3.1	7	5.05	20 mg/Nm ³
SO2	BDL	BDL	BDL	40 mg/Nm ³
H2S	BDL	BDL	BDL	5 mg/Nm ³
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Process vent - Plant: C

Parameter	Result			GPCB Norms
	Min	Max	Avg	
DMA	BDL	BDL	BDL	---
SO2	12	18	15	40 mg/Nm ³
HCl	1.9	8	4.95	20 mg/Nm ³
VOC as BTX*	BDL	BDL	BDL	---
BDL- Below Detection limit				

Month of Oct-18 to Mar-2019 Plant C- S.F.D. Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
PM	21	33	27	150 mg/Nm ³

Month of Oct-18 to Mar-2019 Tank farm Scrubber Process vent

Parameter	Result			GPCB Norms
	Min	Max	Avg	
HCl	5.1	8.6	6.85	20 mg/Nm ³
Cl2*	BDL	BDL	BDL	5 mg/Nm ³

Month of Oct-218 to Mar-2019 D.G. SET-1 & 2

Parameter	D.G. SET-1 Result			D.G. SET-2 Result			GPCB Norms
	Min	Max	Avg	Min	Max	Avg	
PM	67	74	70.5	74	77	75.5	150 mg/Nm ³
SO2	21	23	22	21	31	26	100 ppm

	BDL- Below Detection limit		NOx	30	31	30.5	35	39	37	50 ppm
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The location of the ambient air quality monitoring station shall be decided in consultation with the state pollution control board (SPCB) and it shall be ensured that at least one stations is installed in the up wind and downwind direction as well as where maximum ground level concentration are anticipated.

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

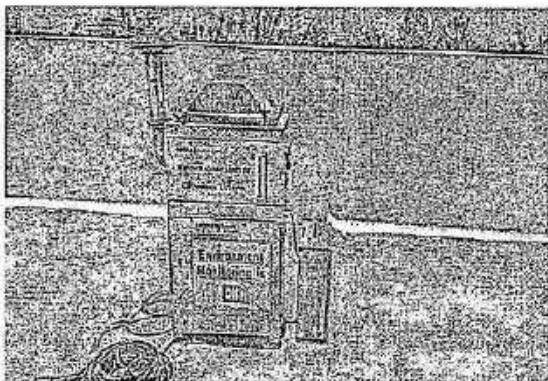
Complied as we have been installed 2 nos. of AAQM systems a Upwind & Downwind as suggested by GPCB and monitoring twice/week and 1 station is monthly monitoring by third party M/s Siddhi Green Excellence Pvt Ltd. Ankleshwar (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021).

Maximum ground level concentration is observed within the limit.

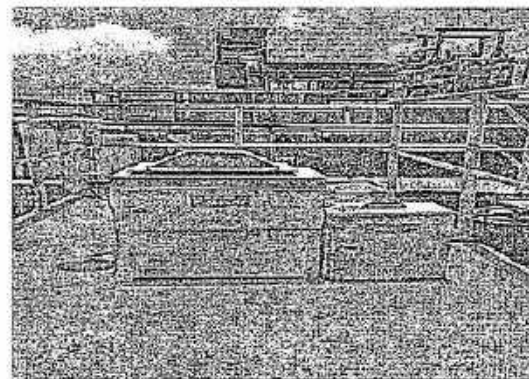
In view of the information furnished by the PP and the monitoring results showing that all the parameters are well within the stipulated norms, the stipulated condition is considered complied.

COMPLIED

vi



Downwind location



Upwind location

BHARAT RASAYAN - AAQM (CANTEEN AREA) Month of Oct-18 to Mar-2019

Sr. No.	Parameter	Result mg/Nm ³	NAAQS Norms
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BHARAT RASAYAN - AAQM (ETP AREA) Month of Oct-18 to Mar-2019

Sr. No.	Parameter	Result mg/Nm ³	NAAQS Norms
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		Min	Max	Avg	mg/Nm ³			Min	Max	Avg	mg/Nm ³
1	PM10 (µg/m ³)	65	92	78.5	100	1	PM10 (µg/m ³)	65	92	78.5	100
2	PM2.5 (µg/m ³)	20	39	29.5	60	2	PM2.5 (µg/m ³)	21	39	30	60
3	SO2 (µg/m ³)	10	27	18.5	80	3	SO2 (µg/m ³)	10	29	19.5	80
4	NOx (µg/m ³)	19	31	25	80	4	NOx (µg/m ³)	18	31	24.5	80
5	HCL (µg/m ³)	BDL	BDL	BDL	200	5	HCL (µg/m ³)	BDL	BDL	BDL	200
6	CL2 (µg/m ³)	BDL	BDL	BDL	100	6	CL2 (µg/m ³)	BDL	BDL	BDL	100
7	H2S (µg/m ³)	BDL	BDL	BDL	500	7	H2S (µg/m ³)	BDL	BDL	BDL	500
8	HC(µg/m ³)	BDL	BDL	BDL	160	8	HC(µg/m ³)	BDL	BDL	BDL	160
9	NH3 (µg/m ³)	15	66	40.5	400	9	NH3 (µg/m ³)	15	66	40.5	400
10	HF (µg/m ³)	BDL	BDL	BDL	60	10	HF (µg/m ³)	BDL	BDL	BDL	60
11	CO (µg/m ³)	450	1487	968.5	4	11	CO (µg/m ³)	450	1487	968.5	4
12	CS2 (µg/m ³)	BDL	BDL	BDL	1	12	CS2 (µg/m ³)	BDL	BDL	BDL	1

vii	<p>Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>As per CPCB guideline, appropriate stack height for Flue gas Emission and Process stacks are given below;</p> <ul style="list-style-type: none"> -Boiler Stack (18 TPH) } 30 meter -Thermic Fluid Heater- (4 Lac KCal/hr)- } - DG Set (750 KVA) – 11 Meter - DG Set (750 KVA) – 11 Meter -Process Stacks / vents of all plants – 15 meter <p>-Scrubbed waste water is sent to ETP for further treatment of Physico chemical, Secondary as well as tertiary.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
viii	<p>The overall noise level in and around the plant area shall be kept well within the prescribed</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We are monitoring noise level in company premises as well as in</p>

standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 Rules viz, 75 dBA (day time) and 70 dBA (night time).

surrounding area and it is well within the standards prescribed by the concerned authorities.

Acoustic enclosures have been provided to mitigate the noise level. The summary of the ambient noise monitoring reports during the period day/night, once in a month as monitored by - M/s. Siddh Green Excellence Pvt Ltd. Ankleshwar (Recognized NABL Laboratories no. NABL/TC-5007 dated 20/03/2019 and valid up to 27/03/2021) recognized by Gujarat Pollution Control Board is given below:

NOISE LEVEL DATA SHEET OCT-18 TO MAR-19

Sr. No.	Location	Day Time		Night Time	
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)
1	Near Security Main Gate	51	54	50	52
2	Near ADM Office	59	59	45	53
3	Near ETP	72	72	61	63
4	Near Boiler	74	74	63	66
5	Near Plant A	71	71	65	68
6	Near Plant B	73	73	58	61
7	Near Plant C	70	70	52	60
8	Near Utility	73	74	66	68
9	Near Canteen	59	59	50	54
10	Near MEE Plant	65	73	61	64
Standard		75 dB(A)		70 dB(A)	

In view of the information furnished by the PP and the monitoring results showing that noise levels are well within the stipulated norms, the stipulated condition is considered complied.

COMPLIED

ix

The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the report submitted to the

Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

All recommendation given in EIA & Risk Analysis Report are compiled. Please refer implemented schedule of all the environmental protection measures as given below.

We have already implemented the all the recommendations made in

<p>ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.</p>	<p>the EIA/EMP in respect of environmental management, risk mitigation measures.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
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CONSTRUCTION & OPERATION STAGE POTENTIAL IMPACTS & MITIGATIVE MEASURES

ENVIRONMENTAL COMPONENTS	POTENTIAL IMPACTS	SOURCES OF IMPACT	MITIGATIVE MEASURE	IMPLEMENTED SCHEUDLE
Water Quality	Deterioration of water quality	<p>Construction activity & abstraction of water for construction requirement and sanitation in housing for workers.</p> <p>Discharge of process effluents, sewage and utility wastewater</p>	<p>Proper management of surface water run off is made.</p> <p>Effluent treatment plant (ETP)</p>	<p>Company has installed 200 + 200 KLD MEE-Stripper & ATFD and 400 KLD of Dilute stream treatment facility. Discharge of treated effluent to GIDC drain.</p> <p>Discharge standards specified by authorities are being met</p> <p>Minor adverse impact</p>
Air Quality	Increase in SO ₂ , NO _x , SPM & HCl concentrations in ambient air	Process emissions, Fugitive emissions & Utility stack emissions	<p>Control equipment for fugitive emissions</p> <p>Adequate stack heights & APCE</p>	<p>No remarkable increase in GLCs.</p> <p>NAAQ Standards are met</p> <p>Minor adverse</p>

					impacts on ambient air quality
Socio-Economic	Overall growth & development of area, increased employment, improvement in infrastructure and growth of downstream industries	Project activities	General area planning in advance by GIDC and classified as notified industrial estate by GIDC		Beneficial change
Terrestrial Ecology	Minor loss of habitat-flora & fauna, loss of agricultural land	Project activities	Green belt Proper management of solid waste		No impact
Noise	Increased noise level	Project operation	Noise abatement at generation point & green belt before receptor		Marginal impact
Infrastructure & Services	Improved communication, transport, housing, educational & medical facilities	Project	Development has been gradual		Beneficial impact
Environmental Hazards	Risk to environment & neighboring population	Handling and storage of chemicals, solvents & fuels	On site & off site Disaster management plan & Safe practices		Insignificant adverse impact

x	The company will undertake all relevant measures for improving the Socio economic conditions of the surrounding area. CSR	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following: We undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment
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activities will be undertake by involving local villages and administration.

We have provided the trees & guards to nearby villages like, Dahej Bholav, Hostel Ground & Bhadbhoot, etc.

In view of the information furnished by the PP, the stipulated condition is considered complied subject to clarity on the unit meeting the requirement of allocation of funds under CSR as per Companies Act and if applicable, the details thereof. PP shall ensure adequate funds for creation of tangible assets are spent on an yearly basis for socio-economic upliftment of the surrounding area. A time targeted action plan in this respect shall be furnished to the MOEFCC, RO Bhopal for review.

COMPLIED SUBJECT TO CONDITON

Corporate of BRL CSR Report year 2016-17



Bharat RASAYAN LIMITED
29th Annual Report 2017-2018

ANNEXURE TO THE BOARD'S REPORT

REPORT ON CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES/ INITIATIVES
(Pursuant to Section 135 of the Act & Rules made thereunder)

1. A brief outline of the Company's CSR Policy, including brief of the projects or programmes proposed to be undertaken

The Corporate Social Responsibility (CSR) Policy of the Company, as approved by the Board of Directors, is available on the Company's website at www.bharatgroup.co.in.

The Company has identified the following causes from a Corporate Social Responsibility perspective:

- 1) Supporting Rural Children's Education including Promoting Education
- 2) Promoting Healthcare
- 3) Any other activities i.e., covered under Schedule-VII of the Companies Act, 2013.

2. The composition of the CSR Committee

The Corporate Social Responsibility Committee shall comprise of the following Directors:

- 1) Shri Mahabir Prasad Gupta, Whole Time Director
- 2) Shri Rajender Prasad Gupta, Whole Time Director
- 3) Smt. Sujata Agarwal, Independent Director

3. Average Net Profit of the Company for last 3 financial years : ₹ 8110.09 Lacs

4. Prescribed CSR Expenditure (2% of Amount) : ₹ 122.20 Lacs.

5. Details of CSR activities/projects undertaken during the year

- a) Total amount to be spent for the financial year : ₹ 125.00 Lacs
- b) Amount un-spent, if any : N/A.

c) Manner in which the amount spent during financial year is detailed below:

Sr. No.	CSR Project	Relevant Section of Schedule-III in which Project is covered	Projects/ Programmes coverage	Amount outlay (budget) (In ₹)	Amount spent on the project/ programme (In ₹)	Cumulative expenditure upto 31 st March, 2018 (In ₹)	Amount spent Direct through implementing agency (In ₹)
1.	Promoting Education including Special Education	(B)	New Delhi	1,25,00,000	1,25,00,000	1,25,00,000	Maharaja Agrasen Technical Education Society*

* Maharaja Agrasen Technical Education Society having its office at Keshav Kunj, Road No. 4, House No. 13, East Purjait Bugh, New Delhi-110026, which is registered with the Commissioner of Income Tax under Section 12A of the Income Tax Act, 1961. The Educational Society promotes the quality education in the field of Technology, Management, Law, Pharmacy and Health Services to shape the human society for a better future.

Corporate of BRL CSR Report year 2016-17



Bharat RASAYAN LIMITED
29th Annual Report 2017-2018

ANNEXURE TO THE BOARD'S REPORT

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- a) Total amount to be spent for the financial year : ₹ 125.00 Lacs
- b) Amount un-spent, if any : N/A.

c) Manner in which the amount spent during financial year is detailed below:

Sr. No.	CSR Project	Relevant Section of Schedule-III in which Project is covered	Projects/ Programmes coverage	Amount outlay (budget) (In ₹)	Amount spent on the project/ programme (In ₹)	Cumulative expenditure upto 31 st March, 2018 (In ₹)	Amount spent Direct through implementing agency (In ₹)	Implementing Agency
1.	Promoting Health Care including preventive health care	(E)	Jajpur, Rajnisha	50,00,000	50,00,000	50,00,000	50,00,000	Mahatma Gandhi University of Medical Sciences and Technology*
2.	Promoting education, including special education	(B)	Ningbozhong, Bishnagar District, Manipur	2,40,00,000	2,40,00,000	2,40,00,000	2,40,00,000	Development on Communication, Arts & Culture, Science, Economic and Education Centre (DCEC)*

Following is the Local CSR funding by BRL:

CSR Activities of Bharat Rasayan Ltd. Dahej Financial Year 2015-16		
Sr.No.	ACTIVITY	Rs. in Lacs
1	Food Packets distributed to Dahej Gram Panchayat	0.10
2	Tree Guards to Sanskar Deep School Dahej	0.90
3	Human Welfare Foundation : Beti Bachao Beti Padhao	0.25

4	LCD Projector donated to Primary Girls School Dahej	0.30
5	Blood Donation Camp organized at Rotary Club Dahej	0.30
6	Tree Guards 100 donated to Hostel Ground and Bhaskar Academy Dahej	0.60
		2.45

CSR Activities of Bharat Rasayan Ltd. Dahej Financial Year 2016-17

Sr.No.	ACTIVITY	Rs. in Lacs
1	Contribution for community in tribal area for group wedding under Rural Community Development Program	1.00
2	Education promoted to Primary School student in Dahej under Rural Education Program	0.42
3	Participate in Rural Development program through providing Tree for Plantation at Narayan Vidya Vihar, Bharuch	0.90
4	Beti Bachao Beti Padho project was supported at Dahej thru' Dahej Gram Panchayat	0.25
5	Educational equipment provide to Dahej Primary Girls School thru' Dahej Gram Panchayat	0.30
6	Blood Donation Camp organized in association with Rotary Club of Bharuch & Red Cross society at Dahej	0.30
7	Supported Tree Plantation activity in public open ground and educational institute in Dahej thru' Dahej Gram Panchayat	0.60
8	Education to tribal area children is sponsored through Sansakar Deep School Dahej.	1.00
		4.77

CSR Activities of Bharat Rasayan Ltd. Dahej Financial Year 2017-18

Sr.No.	ACTIVITY	Rs. in Lacs
1	Supported Tree Plantation activity in Dahej village. Provided 300 tree guards to Dahej Gram Panchayat under Environment Protection Mission	2.00

2	200 tree plantation and tree guard donated to Narayan Vidhya Vihar Bholav, Bharuch under Environment Protection Mission	1.25
3	Desktop PC and 3x 2 Iron Bed with mattress donated to Dahej Police Station New Building (Thru HR)	0.70
4	PC System Desktop given to Dahej Police Station Old in Village	0.25
5	Education to tribal area children is sponsored through Sansakar Deep School Dahej under Rural Education promotion	1.00
6	Contribution for community in tribal area for group wedding under Rural Community Development Program	1.00
7	Education activities of poor students and their project encourage at government engineering college in Bharuch	0.10
8	Poor & tribal students supported for their graduation project activities at SVMIT Bharuch.	0.10
9	Contribution for Clean river activities supported at Bharuch District Level under Environment protection mission.	0.25
		6.65

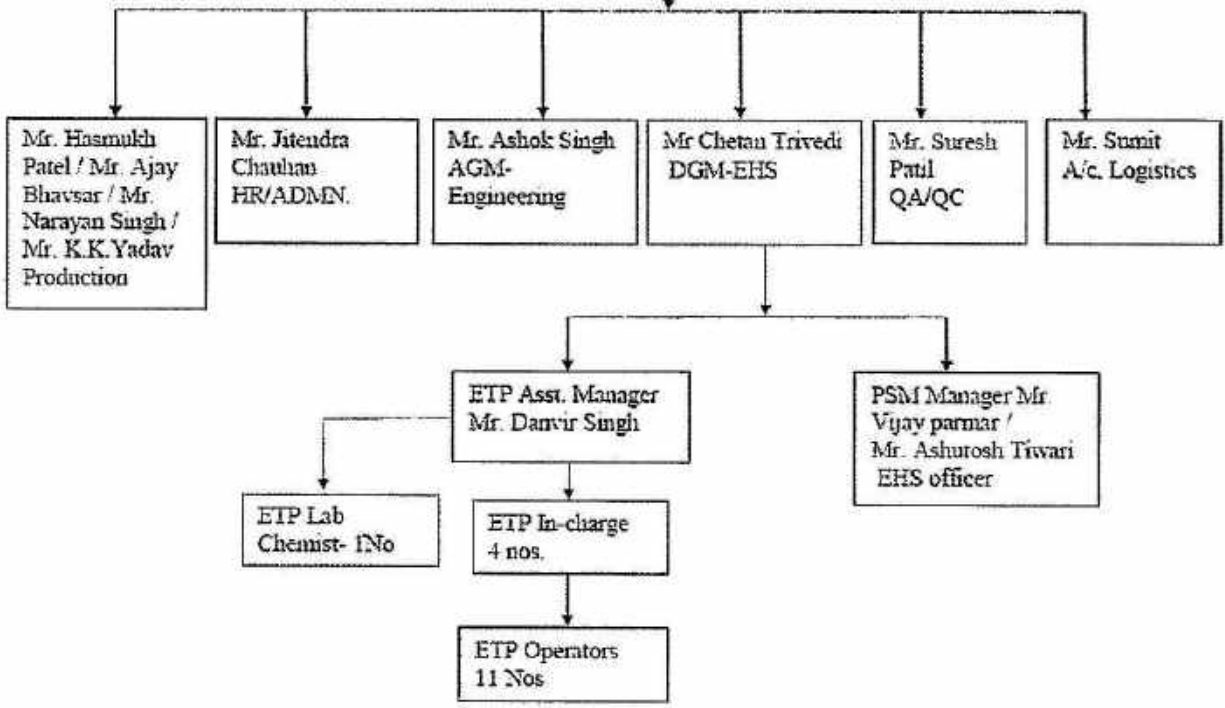
CSR Activities of Bharat Rasayan Ltd. Dahej Financial Year 2018-19

Sr.No.	ACTIVITY	Rs. in Lacs
1	Contribution for community in tribal area for group wedding under Rural Community Development Program	1.25
2	School Bags distribution in Vadiya School on occasion of Independence Day , Dahej	0.25
3	Contribution to Sujlam Suflam Water Conservation Scheme to Bharuch District Collector	2.00
4	Participate in Rural Development program through providing Tree for Plantation at Narayan Vidya Vihar, Bharuch	0.50
5	Blood Donation Camp organized in association with Rotary Club of Bharuch & Red Cross society at Dahej	0.25
6	Education to tribal area children is sponsored through Sansakar Deep School Dahej under Rural Education promotion	1.00
7	Technical Education provided to 10th Pass Student under skill Development Mission	3.30
8	Participate in Rural Development Program through providing Railing to Dahej village Entry to Village Panchayat around 1.5 kms for Walkway/Footpath.	4.50

	9	Providing Student Scholarship Fund initiated by Shroff S.R. Rotary Institute of Chemical Technology, Ankleshwar	1.00	
			14.05	
xi	The company shall under take eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We undertakes eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment</p> <p>We have provided the trees & guards to nearby villages like, Dahej Bholav, Hostel Ground & Bhadbhoot, etc.</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>		
xii	A separate Environment management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We are having separate Environmental Management Cell equipped with full-fledged laboratory facilities which is attached as below:</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied</p> <p>COMPLIED</p>		

ENVIRONMENT MANAGEMENT CELL

Mr. Ajay Gupta
Director - Operations



ENVIRONMENT MANGEMENT CELL

Bharat Rasayan Limited

Plot No. 42/4, GIDC Industrial Area, Dahej, Distt-Bharuch,
Gujarat

Introduction

The organization has established and maintains the documented environmental objectives and targets, a each relevant

Function and level within the organization.

When establishing and reviewing its objectives, organization has considered the environmental policy

legal requirements, and significant environmental aspects.

We have also considered our financial and business requirement in views of regulatory and customer requirements, while framing these objectives and the targets.

These targets has been discussed during the management review meetings and progress rate been evaluated for their effective implementation within the define time frame.

EHS COMMITTEE

Contents

Sr.No. Title

1.0 Objective

2.0 Scope

3.0 Responsibility

1.0 Objective

- To contribute to protection of environment by
 - 1) Improving the environmental management system to enhance the overall environmental performance.
 - 2) Comply relevant environmental legislation and regulation.
 - 3) Conserve relevant natural resources like fuel, water, energy and promote greening of the environment.

- To promote safety & health of the employees and others associated with our operations by
 - 1) Implementation of best practices in safety and health management system.
 - 2) Compliance with the applicable safety and health legislation.

2.0 Scope

The subjected report is applicable for Bharat Rasayan Limited, Plot No. 42/4, GIDC Industrial area, Dahej. Dist – Bharuch.

The subjected report provides guidelines /directions for

- Defining the responsibilities.
- Defining the detailed instructions and / or references for various activities.

3.0 Responsibility

Organization of the team responsible is illustrated with the help of following team organization chart.

Responsibilities of different functions (team members) indicated in the organization chart are as follows:

Director – Operations:

To collect data from various team members as described above.

To ensure that all operations are in accordance as specified in objective and scope.

To ensure that adequate financial provision is made in budget of the environmental safe guard. Funds so earmarked shall not be diverted for any other purpose.

Production:

- To ensure that reactors shall be connected with suitable heat exchanger to achieve a recovery of about 95 %.
- In process and solvent used in production shall be stored in a separate space with all safety measure.
- Proper earthing is be provided in all electrical equipments wherever solvent handling is done.
- Entire plant shall be flame proof. The solvent storage tanks shall be provided with flame arrestor was ever applicable.
- To ensure that influent process water generated in the process is directed to effluent treatment plant.
- To ensure that polybags and drums are decontaminated before reuse /sale /disposal.

Engineering:

- To provide suitable utilities in plant to prevent solvent loss through vaporization.
- The water intake shall not exceed 1419 KL/Day.
- To provide monitoring arrangements with stacks /vents and proper prevent maintenance to control the air emission.
- To ensure building & facilities are provided with suitable drains to avoid mix-up of storm water with domestic waste water.
- To ensure that waste oil produced is neatly maintained in dedicated containers and sold to authorized recyclers.
- To provide suitable arrangements in equipment and ancillary system so as to minimize loss of fuel water and energy.
- The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures.

Electrical:

- Proper earthing is being provided in all electrical equipments wherever solvent handling is done.
- Entire plant shall be flame proof.
- Double earthing provides the all solvent storage tanks and process reactors.
- Monitoring and control the DG Set operation (DG sets for power failure/any emergency only)
- Electrical consumption details are measured and monitoring to control the energy levels and reduce the energy consumption every year.

HR & Admin:

- To provide manpower for maintaining activities as defined in objective.
- To ensure that housekeeping and gardening in factory is well maintained.
- Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Gujarat factory rules.
- To select the qualified and experienced employees for effective operation to reduce spillage and accidents.
- To maintain the competence profile and Department HOD are minimum environment awareness and training will be given to employees for environment protection.

Ware House and Accounts:

- Minimum and maximum stock inventory maintain for continuous operation of Air pollution control equipments and effluent treatment plant for reduce the breakdown hours.
- Financial help was providing the hazardous waste disposal and GIDC Intake water and Treated effluent water drain disposal charges and GPCB pending amounts given to timely.
- Materials are stored as per compatibility to reduce the spillage and incidents.
- Training was given to contract and company employees for material handling.

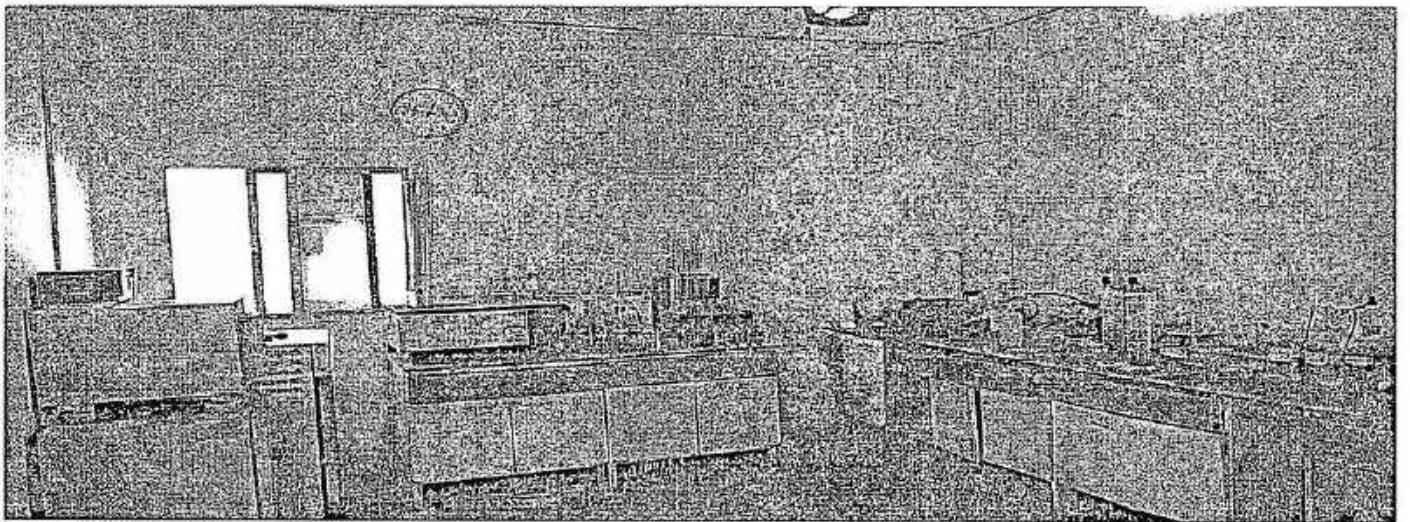
QC/QA:

- Materials are stored as per compatibility to reduce the spillage and incidents.
- Training was given to contract and company employees for material handling.
- MSDS providing for new raw materials and product before use.
- Follow the waste water disposal and Hazardous waste disposal.
- Decontamination will be carried out before disposal to ETP.

EHS:

- Minimum and maximum stock inventory maintain for continuous operation of Air pollution control equipments and effluent treatment plant for reduce the breakdown hours.
- Materials are stored as per compatibility to reduce the spillage and incidents.
- Training was given to contract and company employees for material handling and equipments operation.
- Training and awareness given to employees for environment protection.
- Monitoring and measurement for environment performance.
- Timely dispose to Hazardous waste for GPCB authorized party and transporters also.
- Improve the environment management system to enhance the overall environmental performance.
- Comply relevant environmental legislation and regulation.
- Conserve relevant natural and resources like fuel water and energy and promote greening of the environment.
- Compliance with the applicable safety and health legislation.

M/s. Bharat Rasayan Limited developed its own laboratory equipped with different equipment i.e. analytical balance, pH meter CL 54+, COD digester (heating) apparatus, oven, BOD incubator, Digital turbidimeter model EQ 811, Digital cond./TDS meter -641, Desiccators, Heating mantle, Magnetic stirrer, Hot plate, necessary glass-wares.



xiii	The project authorities shall earmark adequate funds to implement the	Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:
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conditions stipulated by the Ministry of Environment and Forests as well as the state govt. along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

Complied as we have been earmarked funds for environment management/ pollution control measures and is not be diverted for any other purposes. We have allotted sufficient funds for pollution control measures and strengthen EMS.

Please see the below 2 tables of Environment budget allocated in six month from Oct. 18 to March 19 and from Year 2013 up to year September 2018 as;

Env. Budget Funds for year	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
Year 2013 to Sept.2018	1469.93	397.98

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

COMPLIED

Environment Budget Allocation Sheet

From 01.10.2018 to 31.03.2019


Sr.No.	Particulars	Recurring Cost [Rs. In lac]	Capital Cost (Rs. In lac)
1	Air Pollution Control	7.20	0.00
2	Water Pollution Control	463.80	302.00
3	Noise Pollution Control	0.00	0.00
4	Environment Monitoring & Management	29.60	0.00
5	Reclamation Borrow/ Mined Area	0.00	0.00
6	Occupational	9.93	0.00
7	Green Belt	0.91	0.00
8	Others [Pl. Specify] Manpower cost	62.60	0.00
TOTAL Cost in [Rs. In lac]		574.04	302.00

xiv

The implementation of the project vis-à-vis environmental action plans shall be monitored by the concern regional office of the ministry/ SPCB/

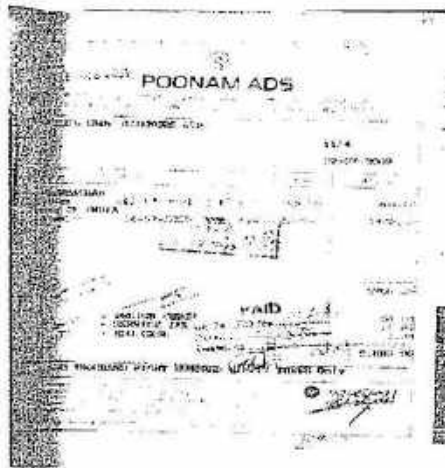
Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

We have submitted the status of compliance of the stipulated environmental clearance conditions, including results of monitored data along with CD from time to time at the Regional office of MOEF&CC, the respective office of CPCB and the GPCB.

	<p>CPCB. A six month compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the company.</p>	<p>EC compliance report (Oct-18 to March-19)- This report EC compliance report (Apr-18 to Sep-18) EC compliance report (Apr-16 to Sep-16) EC compliance report (Oct-15 to Mar-16) EC compliance report (Jan-15 to Jun-15) EC compliance report (Jul-14 to Dec-14) EC compliance report (Jan-14 to Jun-14)</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
<p>xv</p>	<p>A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zilaparisad / Municipal corporation, urban local body and the local NGO, if any, from who suggestions/ representations. If any, were received while processing the proposal.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>A copy of the clearance letter was sent on dtd. 20/08/2009 to Dahe Gram Panchayat as local Body for their information & suggestions as enclosed below. No any suggestion has been received from the local</p> <div data-bbox="592 1115 1161 1624" style="text-align: center;">  <p>Crop Sciences Limited <small>100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 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869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000</small></p> </div> <p>TO SARPANCH GRAM PANCHAYAT, DAHE</p> <p>Date: 20/08/2009</p> <p>Sub: Information regarding new manufacturing unit for.</p> <p>We would like to inform you that we have received EC with letter No. EC No. J-11031/96-L/2008-14-11 [I], dated 33-07-2009 from MOEF.</p> <p>We proposed to start a manufacturing unit for production of agrochemicals at Plot No. 42/A GIDC Dahe.</p> <p>This is for your kind information and any comments please.</p> <p>For: Smt Crop Sciences Limited <i>(Authorized Signatory)</i></p>

	<p>the stipulated EC conditions including results of monitored data (both in hard copies as well as by email) to the respective regional office of MoEF. The respective zonal office of CPCB and the SPCB.</p>	<p>environmental clearance conditions, including results of monitored data along with CD from time to time at the Regional office of MOEFCC, the respective office of CPCB and the GPCB.</p> <p>EC compliance report (Oct-18 to March-19)- This report EC compliance report (Apr-18 to Sep-18) EC compliance report (Apr-16 to Sep-16) EC compliance report (Oct-15 to Mar-16) EC compliance report (Jan-15 to Jun-15) EC compliance report (Jul-14 to Dec-14)</p> <p>EC compliance report (Jan-14 to Jun-14) In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>
<p>xvii</p>	<p>The Environment statement for each financial year ending 31st march in form-V as is mandated shall be submitted to the concerned SPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of the compliance of environmental clearance conditions and shall also be sent to respective regional</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>The Environment statement for each financial year ending in form-V is submitted regularly to the GPCB and the same has been already provided with our EC compliance reports. Please see the form-V (2017-18) is given below;</p> <p>In view of the information furnished by the PP, the stipulated condition is considered complied.</p> <p>COMPLIED</p>

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 concerned Regional Office of the Ministry.



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

COMPLIED

xix

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 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:

After receipt of respected EC we have obtained CTE & CC&A from GPCB-Gandhinagar as;

Consent to Establish No. GPCB/CE/BRCH/NOC-3724/ID 33612/ 5512/ Dated: 17-07-2010

1st amendment order No. GPCB/CE/BRCH/NOC-3724/ID33612/ 7817/ Dated: 27-04-2011

2nd amendment CTE order No. GPCB/BRCH/NOC-3724/GPCB II 33612/114060 Dated: 01-06-2012

And

Consent to Operate: GPCB CTO ODER NO: H-54434 Latter no PC/BRCH - CCA-50/ ID 33612/150861 Dated 20/06/2013.

The up to date progress of the project is regularly intimated to MoE/ CC/CPCB & GPCB in the form of six monthly CRs which are regularly submitted since beginning (grant of EC).

Hence the condition may be considered as complied

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

		COMPLIED
9.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We Agree with the said condition</p> <p>In view of the submission by the PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
10.0	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We Agree with the said condition</p> <p>In view of the submission by the PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
11.0	Any appeal against this environment clearance shall lie with the National Appellate Authority. If preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act 1997	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We Agree with the said condition</p> <p>In view of the submission by the PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>

12.0	<p>The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water 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.</p>	<p>Project Proponent vide letter dated 17.06.2019 received in MOEF&CC RO Bhopal on 17.06.2019 submitted the following:</p> <p>We Agree with the said condition</p> <p>In view of the submission by the PP, the stipulated condition is considered as agreed to comply.</p> <p>AGREED TO COMPLY</p>
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Summary note:

i. Implementation of Conditions:

Out of 46 total conditions, it may be seen that 33 are complied, 8 are complied subject to condition, 1 is deemed complied and 4 are agreed to comply. These have been explained in the foregoing compliance report against each of the conditions, and the Project Proponent needs to take necessary and time bound action for early compliance in respect of the relevant conditions and an action taken report shall be submitted in this regard for further review. Accordingly, an action taken report shall be furnished to MoEF&CC, RO Bhopal.

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

Project Proponent vide letter dated 17.06.2019 submitted that there is no court case pending against the project and the details of show cause notices have been issued by GPCB over the past 3 years as Annexure.


(Dr. H.V.C.Chary Guntupalli)
Scientist-D

WORKS : UNIT-II: Plot No. 42/4, Amod Road, GIDC, Dahej, District-Bharuch, Gujarat-392130, Ph.: +91-2641-291123, +91-2642-241100

BRL-Dahej/ DIR/GPCB/2016/22

Date: 25th October, 2016

To;
Unit Head- Bharuch Region,
Gujarat Pollution Control Board
ParyawaranBhawan,
Sector 10A,
Gandhinagar

ID NO. 33642

Kind. Att.: Mr.D M Thaker

Subject: Our compliance respect to your Notice Dated 20th October, 2016

Ref. :GPCB officials visited on 21.07.16 & 04.08.16 and our compliance letters submitted on dated 2nd August, 2016 and 23rd August 2016

Respected Sir,

Kindly refer to your above subject, we have undertaken following actions for improvement in Environment Management System at our unit.

Sr. no.	Observation	Remedial measures taken	Compliance Status
1	Observed high COD Effluent & Organic layer on collection tanks & Oil & Grease tanks at ETP.	Concentrated effluent receiving from our plants to treat in ETP with separation of solids at Conical Tanks, removal of Oil & grease from O&G tank with advanced Oil Skimmer and Neutralise with Acid/Alkali for further treatment at MEE-VTFD. Oil & Grease Trap is consisted with following: The effluent after screening flows under gravity to Oil and Grease chambers. The O&G chamber is provided with a retention time of 8.9 Hours (each) for 100 cum per day. The tank is provided with inlet and outlet baffle system for control of floating oil coming in the effluent. This oil is removed by Oil Skimmer and is collected separately in drums. This discarded oil falls into Hazardous waste Category and is disposed off as hazardous waste to Co-Processing or incineration.	Complied
2	Incinerator is stopped & in Idle condition	We have been granted CTE for Incinerator at In-House thermal decomposition of organic waste.	Complied

OK
21/10/16
Gujarat Pollution Control Board
Sector No. 10 A,
Gandhinagar - 392 012

18/10/2016
Post Received
Gujarat Pollution Control Board

		<p>However we are the member of Common Incineration system with SEPPL, GSPL & RSPL and according to waste utilisation project our most of organic wastes diverted to RSPL for Co-Processing and additionally we are also in dialog with Ambuja Cement-Kodinar to disposal of all organic waste to them, so the captive incineration will not be preferable.</p>	
3	<p>Treated effluent collected from unit showing results of COD, BOD, SS & pH parameters are high.</p>	<p>Our EMS doesn't allow Non-permissible parameters to be discharged in final treated effluent through Vilayat-Dahej GIDC sewer line and additionally we have installed RO (M/s Rochem) since long at Tertiary treatment and we are getting apx.90% recovery and rest 10% high TDS is being treated in MEE. Therefore, only treated STP effluent & Boiler blow down receiving in Final discharge tank and discharging through online TOC meter to GIDC drainage line up to deep sea.</p> <p>When the team has visited our site, there was no discharge during the collection of sample and the level of final discharge tank was only 15% apx. (Tank Size- 8.8 m X 6.6 m X 3.5 m), and for sample collection, a discharge pump has been started and re-circulated the treated effluent, therefore the settled solids came suspension, which has increased TSS parameter and may lead to increase the COD-BOD parameters.</p>	Complied
4	<p>Smell of VOC observed in Unit.</p>	<p>We have taken precautions in Plant process for Layer separation and effluent receiving at ETP in conical tank with top and bottom layer separation and collect in drums to control the</p>	Complied and continual process

		<p>odour. This activity will also reflect in other area to minimise the VOCs, and also taking care in process scrubbers.</p> <p>Specially monitoring the VOCs by ION science meter at all area and kept records for improvement. Accordingly we have already installed Deodorant system with Mogra perfumes outside the plant & ETP- HW area.</p>	
5	SMF not arranged at scrubber of Pendimethalin reactor & Nitric Acid Tank	Scrubber is installed for trial product of Pendimethylene Technical and suggested vent height is already increased up to 15 metres with SMF.	Complied
6	Housekeeping observed poor	Housekeeping is improved at ETP, MEE, HW area as well as Plants.	Complied and continual process

We commit ourselves to environmental preservation and shall see that any non-conformity with respect to pollution control does not occur in our unit.

We would like to request your good self to kindly consider the above and obliged

Thanking you,

Your sincerely,

For, **Bharat Rasayan Ltd.**



Dr. V K Sharma

(Exe. Director)



CC to;

Mr. H C Solanki-

RO- GPCB, Bharuch

Attachment:

- 1) Notice
- 2) Our compliance letters submitted to GPCB

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
 Sector '0-A' Gandhinagar 382 010
 Phone : (079) 23226285
 Fax : (079) 23232156
 Website : www.gpcb.gov.in



શ્રી બાપુ (૧૫-૧૨-૧૯૫૬) સ્મૃતિ ટ્રસ્ટ સેક્ટર ૩ પુસ્તકી સ્ટોર લાયન વાલી ને અત્યંત લાગુતી રૂબરૂ સેક્ટરની રહેલી વાલી નેમ અભીનવ બોક્સ પુસ્તકી સ્ટોરમાં-૧૯૭૯ની સ્ટામ્પ-૩૩ ન હોવા ઉપર અગત્યની સાર્વજનિક સેવા પુસ્તકી સેવા પુસ્તકી સ્ટોર ને માટેની સગીલ સારવારની માગણી રજૂ કરી રહ્યા છે.

ઉપરના પુસ્તકી સ્ટોર બોક્સ વાલી નેમ વાલી,
 ડ. પ. મહેતા
 ડી.બી.મ. ૦૧૨૭
 પુસ્તકી સ્ટોર

સંસ્થા: લીમિટેડ/સ્ટેટીયન/પ્રાઇવેટી આઈ/સી/સી-૩૩૨૭૧
 પત્ર
 મહાનગર પાલિકા, વાલી
 વાલી નેમ: ૪૪/૪, ગાંધીધામ સેક્ટર-૩
 સ્ટેટ: ગુજરાત, ડી. ૩૯૫

પુસ્તકી સ્ટોરમાં-૧૯૭૯ની સ્ટામ્પ-૩૩ ન હોવા ઉપર અગત્યની સાર્વજનિક સેવા પુસ્તકી સ્ટોર નેમ વાલી,
 ડ. પ. મહેતા
 ડી.બી.મ. ૦૧૨૭
 પુસ્તકી સ્ટોર

Clean Gujarat Green Gujarat
 ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

OTHAWA NO. 33550, 20/10/2016



Bharat RASAYAN LIMITED

WORKS : UNIT-II: Plot No. 42/4, Amod Road, GIDC, Dahaj, District-Bharuch, Gujarat-392130, Ph: +91-2641-291123, +91-2642-241100

BRL-Dahej/DIR/GPCH/2018/05

Date: 24th February, 2018

To;
Unit Head- Bharuch Region,
Gujarat Pollution Control Board
ParyawaranBhawan,
Sector 10A,
Gandhinagar

ID NO: 33612

26/2/18
Gujarat Pollution Control Board

Kind. Att.: Mr. A V SILAH

Subject: Our compliance respect to your Notice Dated 14th February, 2018 O/w No.444393

Other Reference : GPCB officials visited on 7/11/17 & 10/11/17 and our compliance letters submitted on dated 22/11/2017

Respected Sir,

Kindly refer to your above subject, we have undertaken following actions for improvement in Environment Management System at our unit.

Sr. no.	Observation	Remedial measures taken	Compliance Status
1	a. During visit of company at Plant-A, B, C and ETP&MEE section, the odour of VOC was observed,	We have established our plant by year 2012 and continuously we are taking care about our EMS and till date closely observed same. We have immediately taken Total VOC from Ion science meter as well as on line readings and the reports are submitted.	Complies. And continual improvement
	b. During visit the foul smell observed and plant In-charge has not taken any steps to control odour	And, after that as per suggestions by RO GPCB officials, we have deputed one technical person as NDO in night shift to monitor the situation.	
	c. Complaints regarding foul odour are being received (time to time) and action not taken by unit.	And, Following measures have been taken regarding Air Pollution Control to minimize VOCs as; 1. Unit has installed De-odorant spray systems of Mogra perfumes at ETP area, production plants & boundary which are being auto control mode with time cycle.	

Post Received
Gujarat Pollution Control Board
BHARUCH.

We commit ourselves to environmental preservation and shall see that any non-conformity with respect to pollution control does not occur in our unit and implemented all the suggestions given in the earlier visits by your officials.

We would like to request your good self to kindly consider the above and obliged

<p>2. Unit has taken precautions in Plant process for layer separation and effluent receiving at ETP in 50 KL of 2 nos. conical tanks with top and bottom layer separation and collect in drums to disposal at RSP. This activity will also reflect in other area to minimise the VOCs, and also taking care in process scrubbers.</p> <p>3. Unit has been improved ejector cooling facility and installed chilling facility at all 6 nos. of E.J.C.T. with the cost of Rs. 72 Lakhs to recover solvent traces which also been improved VOC level.</p> <p>4. Efficiency of scrubbers is also increased in production area by provided heat exchange with chilled water at the inlet of scrubbers for controlling of VOCs</p> <p>5. Drum handling is also reduced by providing intermediate tanks</p> <p>6. Glass scrubbers with caustic circulation are also replaced with MIS Scrubber to avoid leakages</p> <p>7. Material charging water scrubbers converted to alkali (caustic) media, so the acidic fumes are controlled</p> <p>8. Agitations (stirrer) are installed instead of air purging system in neutralisation tanks in ETP to minimise odour.</p> <p>9. Specially monitoring the VOCs by ION science meter at all area and kept records for improvement.</p>	
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22

199

Thanking you,

Your sincerely,

For, Bharat Rasayan Ltd.



Ajay Gupta
(Director-operations)



Attachment:

- 1) Notice
- 2) Our compliance letters submitted to GPCB

CC to;

Mr. R.R.Vyas

RO- GPCB, Bharuch



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

BYRPA D

હવા પ્રદૂષણ (નિવારણ અને નિયંત્રણ) અધિનિયમ -1981ની કલમ 31 અ હેઠળ ઉદ્યોગને સૂચના
(નોટીસ)

- 1) આપ, મે. ભારત રસાયણ લી. પ્લોટ નંબર- ૪૨/૪, જીઆઈડીસી દહેજ, તા:વાગરા, જી: ભરૂચ
હેઠળે ઉદ્યોગ ચલાવો છો અને Pesticides વગેરે પ્રોડક્ટ્સ નું ઉત્પાદન કરો છો.
- 2) આપને જણાવવાનું કે આપના ઉદ્યોગની મુલાકાત તા: ૦૭/૧૧/૨૦૧૭ અને
૧૦/૧૧/૨૦૧૭ ના રોજ બોકેન્ગ અધિકારીઓએ લીધેલ ત્યારે નીચે મુજબની વિગતો
જાણવા મળેલ હતી.
 - a) એકમ મુલાકાત દરમ્યાન પ્લાન્ટ- A, પ્લાન્ટ- B, પ્લાન્ટ- C, તથા ઇટીવી અને MEE
એરીયામાં VOC ની તીવ્ર વાસ અનુભવાયેલ.
 - b) મુલાકાત દરમ્યાન તીવ્ર વાસ અનુભવાતી હોવા છતાં પ્લાન્ટ ઇન્ચાર્જ તરફથી odour
રોકવા અંગેના કોઈ જ પગલા ભરવામાં આવેલ નહોતું.
 - c) એકમ સામેની FOIA ઓગળા ની ફરીયાદ (એકમ સામે total odour અંગેની
ફરીયાદો સમયાંતરે મળેલ છે) એકમ દ્વારા પગલા ભરેલ નથી.

ઉપરોક્ત સંજોગોમાં હું એ વી. સરિષ્ક પર્યાવરણ હકનેર, ગુજરાત પ્રદૂષણ
નિયંત્રણ બોર્ડ, ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, અધિનિયમની કલમ -31 અ હેઠળ નીચે મુજબ
સૂચના આપુ છું કે.

1. આપના ઉદ્યોગની ઉત્પાદન પ્રક્રિયા બંધ કરવા હવા અધિનિયમ-1981ની કલમ-31 અ હેઠળ
શા માટે આદેશ ન આપવા ?
2. જો આપની ઉત્પાદન પ્રક્રિયા આપના પોતાના (કેપ્ટીવ) પાવર પ્લાન્ટ કે ડી.જી. સેટથી
ચાલાતી હોય પણ બંધ કરાવવા ઉપરોક્ત અધિનિયમ-1981ની કલમ-31 અ હેઠળ શા
માટે સીલ બંધ કરવાના આદેશ ન આપવા ?
3. આ ઉદ્યોગને મળતો વીજ પુરવઠો અને પાણી પુરવઠો કાપી નાખવાના ઉપરોક્ત
અધિનિયમ-1981ની કલમ-31 અ હેઠળ શા માટે આદેશ ન આપવા ?

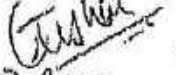
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GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar 382 010
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Website : www.gpcb.gov.in

જો આપ દિન-15માં આપની લેખિત રજૂઆત કરવામાં કે ખુલાસો કરવામાં નિષ્ફળ જશો તો આપને આ બાબતે રજૂઆત કરવાની રહેતી નથી તેમ માનીને બોર્ડને હવા અધિનિયમ-1986ની કલમ-31 અ હેઠળ ઉપર મુજબનો આદેશ આપવાની ફરજ પડશે અને તે માટેની સઘળી જવાબદારી આપની રહેશે જેની નોંધ લેશો.

ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડના નામે અને વતી,


(એ.વી.શાહ)

વરિષ્ઠ પર્યાવરણ ઇજનેર

નંબર: બીઆરસીએચ-બી/સીસીએ-પી(૯)આઇડી-૩૩૬૧૨/

1. પ્રતિ,

મે. ભારત રસાયણ લી,

પ્લોટ નંબર- ૪૨/૪,

જામણડીસી દહેજ,

તા:વાગરા,

જી:ભરૂચ

Outward No: 444393-14/02/2018

Clean Gujarat Green Gujarat
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BRL-Dahej/DIR/GPCB/2018/29
 To
 Unit Head- Bharuch Region,
 Gujarat Pollution Control Board
 Parvawaranibhawan,
 Sector 10A,
 Gandhinagar

Date: 11th October, 2018
 ID NO. 33612

11/10/18
 Gujarat Pollution Control Board

Kind. Attn: Mr. A V SHAH

**Subject: Compliance for your Notice of Direction against Water Act 1974 Rule 33A
 Regarding the Vigilance Office visited our site on 28/08/2018.**

Reference: Your Notice of direction O/w No. 471636 Dtd. 08/10/2018

Respected Sir,

With reference to above subject, we would like to inform you that during visit by Vigilance officials-
 Vadodara on 28/08/2018, they had visited thoroughly all plants and checked all the required details and
 we had also submitted all to details to them immediately and vigilance officials issued a single line
 Inspection Note about leakage found in 15 KL HDPE tank (for use to storage of organic waste to disposal
 at RSPL-Co-processing unit by tanker) for repairing and we had repaired that tank and already submitted
 our compliance vide letter No. BRL-Dahej/DIR/GPCB/2018/24 dtd. 5/09/2018 (Annexure-4) to your
 office and herewith also would like to inform you that officials from RO-GPCB, Bharuch have also
 visited on 19/09/2018 and during visit we had already provided all the desired details and they have
 given 3 observation points through their Inspection notice. We have already submitted our compliance
 vide letter No. BRL-Dahej/DIR/GPCB/2018/27 dtd. 25/09/2018 (Annexure-5) to your good office.

Sir, as per your 'Notice of Direction' point No. 1 to 3 are not been instructed by Vigilance officials
 GPCB as well as RO-GPCB officials during their respective visits.

However, respect to your letter, we are submitting our compliance for your kind consideration as
 follows;

Sr. no.	Observation	Remedial measures taken / Action Plan
1	Unit has without obtained EC and without amendment in CTE/CTO from Board and issued Consent manufactured beyond the production	As desired by the vigilance officials, we have already provided production details of Last 3 months and all the products are as per valid Consent as well as within permissible production capacity limits. We are enclosing a statement of production of various products during last 6 months (April 2018 to September 2018) for your kind perusal as Annexure-1
2	In which plant and which products you are manufacturing is not provided	All the details were checked through plant Logbooks by vigilance officials and noted. As you are aware that our plants are Multipurpose and production of various products may be done as per market requirements. However, broadly



		we are manufacturing Insecticides/Intermediates in Plant A & B. Herbicides are being manufactured only in Plant C to avoid any cross contamination. We are enclosing plant wise production details of last 6 months for your kind perusal as Annexure-1
3	Not provided Plant capacity and how much production as per products	As explained above, our plants are Multipurpose, therefore plant capacity of individual products cannot be worked out as Batch time cycle is different for different products in similar equipment.
4	In the Unit, Co-processing waste was stored 110 MT. And leakage found in that storage tank which can lead ground pollution	<p>1) Yes, Co-processing waste drums were generated because of our TSDF site as RSPL & SEPPPL were not lifting wastes during some periods, now the Co-processing wastes being disposed to RSPL-Panoli and 35 MT (Apx.) wastes is lying in Hazardous waste shed which will be disposed to TSDF quickly. Please see the Annexure-2 for organic waste disposed during this period.</p> <p>2) 15 KL HDPE conical tank has been provided for organic waste tanker loading to TSDF site like. RSPL, SEPPPL or any other GPCB approved cement industries.</p> <ul style="list-style-type: none"> i. This tank was being leaked drop wise at Level Indicator nozzle side of centre portions which has been repaired. ii. Also it is considered that a new tank will be procured and replaced with the same. <p>All the Hazardous Storage area are been RCC made with catchment, so the Land contamination will not occur.</p>
5	Incinerator is not in operation	We have been granted CTE for Incinerator at In-House thermal decomposition of organic waste. We have been advised to maximise organic waste for co-processing according to waste utilisation project. We are a member of SEPIL/BEIL/RSPL. and our most of organic wastes diverted to RSPL for Co-Processing. Additionally we are also in dialog with Cement Industries for disposal of all organic waste to them, so the captive incineration is not preferable. Pl see Annexure-3



We would like to request your good self to kindly consider the above and obliged

Thanking you
Y our sincerely,

For, Bharat Rasayan Ltd.

[Signature]
A Jay Gupta
(Director-operations)

CC to:
1) Mr. R.R.Vyas - Regional Officer, GPCB-
Bharuch
May kindly arrange a follow up inspection of
our site.
2) Mr. M V Patel- Vigilance Officer, GPCB-Vadodara

Post Received on 15/10/18
Gujarat Pollution Control Board
BHARUCH

15/10/18
[Signature]
[Signature]

1. Copy of your Notice of Direction
2. Annexure-1
3. Annexure-2
4. Annexure-3
5. Acknowledgment copy of our reply Annexure-4
6. Acknowledgment copy of our reply Annexure-5

Enclosures:



GUJARAT POLLUTION CONTROL BOARD
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BY. R.P.A.D.

પાણી પ્રદૂષણ (નિવારણ અને નિયંત્રણ) અધિનિયમ -1974ની કલમ 33 અ હેઠળ ઉદ્યોગને સુચના

(નોટીસ)

1. આમ શ્રી, મે. ભારત રસાયણ લીમીટેડ, પ્લોટ નં: ૪૨/૪, જીઆઇડીસી દહેજ-૩૯૨૧૩૦, તાલુકા: વાગરા, જી: ભરૂચ હેઠળે ઉદ્યોગ ચલાવો છો અને એગ્રોકેમિકલ્સ પ્રોડક્ટ્સ વગેરેનું ઉત્પાદન કરો છો
2. આપને જણાવવામાં આવે છે કે, બોર્ડે તા ૧૫/૦૨/૨૦૧૮ ના રોજ બોર્ડના હુકમ નંબર AWH-૯૦૬૪૫ થી આપને ઉદ્યોગ ચલાવવા માટે મંજૂરી આપેલ છે.
3. આપને જણાવવાનું કે ઉદ્યોગની તા: ૨૮/૦૮/૨૦૧૮ ના રોજ પાણી અધિનિયમની કલમ-23 હેઠળ બોર્ડના તકેદારી શામાના અધિકારીઓએ મુલાકાત લીધેલ ત્યારે નીચે મુજબની વિગતો જાણવા મળેલ હતી.
 - I. એકમ દ્વારા EC મેળવ્યા વગર તથા CTE/CCA માં જરૂરી સુધારા કર્યા વગર બોર્ડ દ્વારા આપવામાં આવેલ કન્સેન્ટમાં દર્શાવ્યા કરતા વધારે ઉત્પાદન કરવામાં આવે છે.
 - II. કયા પ્લાન્ટમાં શાનું ઉત્પાદન કરવામાં આવે છે. તેની વિગતો આપેલ નથી.
 - III. પ્લાન્ટ કેપેસિટી પ્રમાણે કેટલું ઉત્પાદન થાય છે તેની વિગતો આપેલ નથી.
 - IV. એકમમાં co processing માટેનો આશરે ૧૧૦ મે. ટન વેસ્ટ સ્ટોર કરેલ જોવા મળેલ. તે સ્ટોરેજ ટેન્કમાં લીકેજ જોવા મળેલ જેનાથી ગ્રાઉન્ડ પ્રદૂષણની શક્યતાઓ રહેલ છે.
 - V. ઇન્સીનરેટર ચલાવવામાં આવતું નથી.

ઉપરોક્ત વિગતોમાં હું એ.વી.શાહ, વરિષ્ઠ પર્યાવરણ ઇજનેર, ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, પાણી અધિનિયમની કલમ-33 અ હેઠળ મળેલ સત્તાની રૂએ નીચે મુજબ સુચના આપું છું કે,

- a) આપના ઉદ્યોગની ઉત્પાદન પ્રક્રિયા બંધ કરવા પાણી અધિનિયમ-1974ની કલમ-33 અ હેઠળ શા માટે આદેશ નહીં આપવા?

Order No. 08/12/2018

Clean Gujarat Green Gujarat
ISO 9001:2008 & ISO 14001:2004 Certified Organisation



BRL-Dahej/DIR/GPCB/2018/32

Date: 30th November, 2018

To;
Unit Head- Bharuch Region,
Gujarat Pollution Control Board
ParyawaranBhawan,
Sector 10A,
Gandhinagar

ID NO. 33612

Kind. Att.: Mr. A V SHAH

Subject: Compliance to your Notice of Direction Outward No. 476243 DTD: 22.11.2018

Respected Sir,

With reference to above subject, we would like to respect your inspection on dated 19/09/2018 and sampling report of final discharge which shows that the COD was 722 mg/l & BOD was 250 mg/l and other parameters are within well.

Sir, we would like to inform you that there was no discharge at the time of inspection. Last discharge was completed at about 12.00 Noon on 19/09/2018 and all the parameters were well within the limits as per on-line TOC meter data (Copy of the same is attached as Annexure-3). The tank level was only 20% during sampling. This is normal practice that whenever the tank volume is about 80% we start aeration in tank and dosing Hypo solution for disinfection, check the parameters through online system as well as our in-house Laboratory and after confirmation we start discharge our said treated effluent to GIDC drainage sump through online TOC system and if any higher parameter of TOC find by Online TOC analyser then 3 way valve opened automatically and discharge of high TOC effluent return to ETP for re-treatment. After completion of the discharge we start Intake of treated effluent in Final holding tank. Next discharge was started at 9.00 AM next day morning (20/09/2018) and again all the parameters were well within the limits (Copy of on-line TOC data for the said period is attached as Annexure-3)

2
31/12/18
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar



Our samples of final discharge were been analysed in past by GPCB number of times and such high COD was never reported.

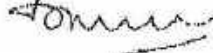
In view of the above, you are requested to advice concerned for resampling. We assure you that we are always been tried to comply our EMS with best efforts.

We would like to request your good self to kindly consider the above and obliged

Thanking you,

Your sincerely,

For, Bharat Rasayan Ltd.



Ajay Gupta
(Director-operations)

Attachment:

- 1) Copy of Notice of Direction - Annexure-1
- 2) Analysis report of GPCB sampling on 19/09/2018 -- Annexure-2
- 3) Online TOC discharge report - Annexure-3



GUJARAT POLLUTION CONTROL BOARD
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BY R.P.A.D

પાણી પ્રદૂષણ (નિવારણ અને નિયંત્રણ) અધિનિયમ -1974ની કલમ 33 અ હેઠળ ઉદ્યોગને સૂચના (નોટીસ)

1. આપ. મે. ભારત રસાયણ લીમીટેડ, પ્લોટ નં: ૪૨/૪, જીઆઇડીસી દહેજ-૩૯૨૧૩૦, તાલુકા: વાગરા, જી: ભરૂચ હેઠળે ઉદ્યોગ ચલાવો છો અને એગ્રીકેમિકલ્સ પ્રોડક્ટ્સ લિમિટેડનું ઉત્પાદન કરો છો.
2. આપને જણાવવામાં આવે છે કે, બોર્ડ તા ૧૫/૦૨/૨૦૧૮ ના રોજ બોર્ડના હુકમ નંબર AWH- ૯૦૬૪૫ થી આપને ઉદ્યોગ ચલાવવા માટે મંજૂરી આપેલ છે.
3. આપને જણાવવાનું કે ઉદ્યોગની તા: ૧૯/૦૯/૨૦૧૮ ના રોજ પાણી અધિનિયમની કલમ-23 હેઠળ બોર્ડના અધિકારીઓએ મુલાકાત લીધેલ ત્યારે નીચે મુજબની વિગતો જાણવા મળેલ હતી,

a) એકમના ફાઇનલ આઉટલેટ માંથી એક્ટ્ર કરેલ ટ્રીટેડ એફ્લ્યુઅન્ટના નમુનાના રીઝલ્ટ નીચે મુજબ છે.

BOD- 250 mg/l, COD-722 mg/l જે નિયતમાત્રા કરતા વધારે છે.

ઉપરોક્ત સંજોગોમાં હું એ. વી. શાહ, વરિષ્ઠ પર્યાવરણ ઇન્જનેર, ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, પાણી અધિનિયમની કલમ-33 અ હેઠળ મળેલ સત્તાની રૂએ નીચે મુજબ સૂચના આપું છું કે,

- a) આપના ઉદ્યોગની ઉત્પાદન પ્રક્રિયા બંધ કરવા પાણી અધિનિયમ-1974ની કલમ-33 અ હેઠળ શા માટે આદેશ ન આપવા?
- b) જો આપની ઉત્પાદન પ્રક્રિયા આપના પોતાના (કેપ્ટીવ) પાવર પ્લાન્ટ કે ડી.જી. સેટથી ચાલતી હોય તો તે પણ ઉપરોક્ત અધિનિયમ-1974ની કલમ-33 અ હેઠળ શા માટે રીલ અને બંધ કરવાના આદેશ ન આપવા?
- c) આપના ઉદ્યોગને પૂરતી વીજ પુરવઠો અને પાણી પુરવઠો કાપી નાખવાના ઉપરોક્ત અધિનિયમ-1974 ની કલમ-33 અ હેઠળ શા માટે આદેશ ન આપવા?

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