



HINDUSTHAN CHEMICALS COMPANY

(An enterprise of THE HINDUSTHAN GROUP)

CIN : U93000WB1998PLC086303

G.I.D.C. Industrial Estate, Olpad - 394540, DIST SURAT, GUJARAT (INDIA) Email : hccolp@hcc-cyanides.com
TELEPHONE : 02621-221681 to 221683, M: 9978444894, 9978444895 Telefax: 02621-221235

F: HCC:TECH: 17: RPS/55

5th July, 2021

To,
The Additional Director,
Ministry of Environment & Forest,
Regional Office (Western Region),
Kendriya Paryavaran Bhavan, E-5, Ravishankar Nagar,
Bhopal- 462 016

Sub: Submission of Six Monthly Environmental Clearance Compliance Report for M/s. Hindusthan Chemicals Company (Formerly known as Cyanides & Chemicals Company).

Ref: Environmental Clearance No. J-11011/466/2011-IA II (I) dated 13/03/2020

Respected Sir,

With reference to above Environmental Clearance order, we are submitting herewith point wise compliance report of said Environmental Clearance for the period of December 2020 to May 2021 We hope to have satisfied from us & do needful at your end & oblige us.

Thanking You,

Yours faithfully,

For, Hindusthan Chemicals Company

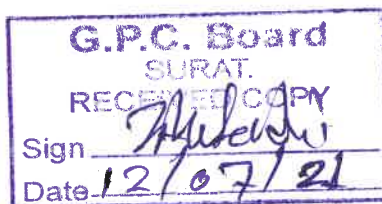
R P Sharma

Asst. Vice President (Plant)

Encl: As below

C.C to

- 1) The Chairman,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector – 10A,
Gandhinagar – 382 010
- 2) The Chairman,
Central Pollution Control Board Parivesh Bhavan,
Opp. VMC Ward Office no. 10, Subhanpura Road, Vadodara – 390 023
- 3) The Regional Officer
Gujarat Pollution Control Board
388, Belgium Square, Typical First Floor, Silver Plaza Complex,
Near Linear Bus Stand, Ring Road, Surat - 395003



भारतीय डाक



EG606439627IN IVR:6971606439627
SPP SURAT RMS COUNTER <395003>
Counter No:1,12/07/2021,18:29
To:THE CHAIRMAN,CENTRAL POLLUTIO
PIN:390023, Subhanpura SO
From:M/S HINDUST,ASNABAD OLPAD
Wt:950gms
Amt:76.70(Cash)Tax:11.70

<Track on www.indiapost.gov.in>
<Dial 18002666868> (Wear M

भारतीय डाक



EG606439635IN IVR:6971606439635
SPP SURAT RMS COUNTER <395003>
Counter No:1,12/07/2021,18:29
To:THE ADDITIONA,MINISTRY OF ENVI
PIN:462016, R.S.Nagar S.O
From:M/S HINDUST,ASNABAD OLPAD
Wt:950gms
Amt:104.20(Cash)Tax:14.20

HINDUSTHAN CHEMICALS COMPANY
GIDC OLPAD, TALUKA: OLPAD,
DIST: SURAT, GUJARAT

**Six Monthly Environmental
Compliance Report**
(From December 2020 to May 2021)

Prepared by:

M/s. EARTHCARE ENVIRO SOLUTIONS PVT. LTD.

Moradia House, Plot No.: 31-32,

Shiv Ashish Industrial Estate Co.Op.Society-II,

Opp. SMC Community Hall, B/h. Raj Carrying Cargo Pvt. Ltd.

Near Chosath Jogni Mata Mandir,

South Zone Road, Udhna, Surat-394210

E-mail: office@earthcare.org.in / info@earthcare.org.in

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19.	EC intimation to Panchayat

MEMBERS ASSOCIATED WITH REPORT

Project Proponent

Mr. A. K. Singh (Executive Director Technical)

Team leader

Mr. Suresh Moradia (Director – Earthcare Enviro Solutions Pvt. Ltd.)

Team Member (EESPL):

Environmental Monitoring & Data Collection : Team Leader – Mr. Chirag Dhaduk
Team Member –1. Mr. Kenu Tailor
2. Mr. Rahul Vankar

Sample Analysis : Lab. Incharge – Ms. Kinjal Nariya
Chemist – 1. Ms. Riddhi

Report Preparation By: Mr. Nikit Jain

Report Checked By: Mr. Hardik Moradiya

Report Approved By: Mr. Suresh Moradia

INTRODUCTION

Hindusthan Engineering & Industries Ltd. (HEIL) (previously Hindusthan Development Corporation) was set up in 1944 with track materials plant at Tiljala. In the year 1964, Sri R. P. Mody acquired the company which had only one plant at Tiljala producing fabricated points, switches and turnouts, steel sleepers and other railway track components. The company witnessed aggressive and all round growth in 1970's when the expansion in the Indian Railways took place for industrialization in the country. HEIL became the major supplier of railway track materials and enjoyed a major market share with Indian Railways. In tune with the demand of economic growth, HEIL continued its thrust on further diversification and in the process either acquired existing projects in the Core Sector or set up Greenfield Projects in a wide spectrum of industrial activities. HEIL acquired a Wagon Building Plant at Santragachi while a Green field Project for manufacture of Cyanide and Calcined Petroleum Coke was established in Olpad in the state of Gujarat & Haldia in the state of West Bengal, respectively.

The company was also in the forefront for bringing state of the art technology from global leaders for the benefit of the Indian Economy. It has brought to India CMS Crossings tie-up with Bethlehem Steel Corporation, USA, Steel Wire tie-up with Kokon Company, Japan, Electro Porcelain tie-up with Reinsinch Werke, Germany, Calcium Coke Calcination from Alcom International, Canada. During this period, HEIL was instrumental in providing a vision for globalization in the areas of its operation. HEIL made rapid inroads in the International Market with its products. HEIL products viz. Steel Castings Cyanides, Track materials found ready acceptance all over the world. HEIL developed a parallel export market for many of its products.

With the spread of globalization and emergence of fierce competition, HEIL realized the need to restructure and is in the process of reorienting its priorities to become a cost effective, customer friendly industrial conglomerate with focus on Research & Development. The Govt. of India has recognized its Research and Development Cell in the Steel foundry as an accredited Research and Development Center for carrying out all the research in the areas of Steel Castings. In the domestic market, HEIL primarily caters to Indian Railways, Ministry of Defence and other Public Sector undertakings. HEIL is the market leader in the area it operates. HEIL is the sole supplier of special containers to CONCOR for the last ten years and no other Indian Company can claim this unique distinction.

Quality Policy:

"It is the quality policy of HEIL's Points & Crossing, Steel Sleeper and wagon division to provide products that satisfy the customer quality requirements. It strives to achieve and maintain excellence through development and absorption of appropriate technologies." - Mr. A. K. Singh (Executive Director Technical)

Achievements:

HEIL has received prestigious export order worth \$18 Crores from a USA based company for supply of Steel Castings. The company has also been receiving Export Excellence Awards given by the Ministry of Commerce, Government of India for the last 8 years in a row. We have received the Export Excellence Award for the year 2001-02 from Shri Arun Jaitley, Honorable Minister of Commerce in New Delhi on 26th September 2003. In India very few companies can claim the distinction of receiving Export Excellence Awards for 8 years in a row.

Hindusthan Chemicals Company (HCC) - Project Proponent Unit

Hindusthan Chemical Company, formerly known as Cyanides & Chemicals Company, is a unit of HEIL. The unit was set up in the year 1982 in GIDC Industrial Estate at Olpad Taluka of Surat District in Gujarat State. The unit is engaged in manufacture of Hydrogen Cyanide (HCN) and Cyanide based products. The unique feature of the HCN manufacturing technology is that the whole system of manufacturing process is working under vacuum hence in any case hazardous gas is not released-out into the atmosphere from the production system. The unit manufactured Sodium Cyanide and Potassium Cyanide for the first time in our country. Thus the unit is pioneer in manufacture of HCN and its derivatives in India. The unit is primarily engaged in the manufacturing of Hydrogen cyanide, Sodium Cyanide, Potassium Cyanide, Sodium/Potassium Ferro Cyanide, Diphenyl Guanidine, Heat Treatment Salt, Sodium Dicyanamide, Cyanohydrins, Nitriles, Cyanide based products, Mandelonitrile and Natural Gas based Captive Power Plant. The present sales turnover of HCC is approximately Rs. 80.49 Crore. We are currently exporting different types of cyanide derivatives to countries like Zimbabwe, Thailand, Indonesia, Morocco etc. Exports account for around Rs. is NIL (from December 2020 to May-2021) of the total turnover of the Unit.

DATASHEET

1.	Project Type: River-valley/Mining/Industry/Thermal/Nuclear /Other (Specify)	Industry Project category – 5 (b) "A"
2.	Name of the Project	M/s. Hindusthan Chemicals Company
3.	Clearance letter (s)/OM No. and date	EC order No. J-11011/466/2011-IA II (I) Dated 13/03/2020
4.	Location: a) District(s) b) State(s) c) Location Latitude/Longitude	Plot No. 26-37, 54-57, 122, 143, Village: Asnabad, Tehsil: Olpad, Dist: Surat, State: Gujarat. Latitude: 21°19'8.40" N Longitude: 72°45'3.73" E
5.	Address for correspondence a) Address of the Concerned Project chief Engineer (with pin code & telephone/telex/fax numbers) b) Address of the Executive Project Engineer /Manager (with pin code & telephone/telex/fax numbers)	Mr. A. K. Singh (Executive Director Technical) Hindusthan Chemicals Company, GIDC Industrial Estate, Olpad – 394 540 District: Surat, Gujarat. Phone: 02621 221681-83, 324222 Fax: 02621-221235 E-mail : aks@hcc-cyanides.com As Above
6.	Salient features a) Of the project b) Of the Environmental management plans	Salient feature of the project and EMP is enclosed at Annexure-1. <ul style="list-style-type: none"> • The whole plant is working under vacuum and all vents are connected to the incinerator. • We have full-fledged Effluent Treatment Plants (2 Nos.) for the treatment of cyanide contaminated effluent and high TDS effluent with adequate capacity. • We have implemented Zero Liquid Discharge scheme from 1st April, 2016 with waste minimization for the existing ETP plants. • We have a valid membership of TSDF site – NECL, Nandesari and BEIL, Ankleshwar/Dahej for incineration,



		<p>treatment and disposal of hazardous waste& landfill waste.</p> <ul style="list-style-type: none"> • We have developed greenbelt area which is approx. 45% of the total plot area. • We have facility for in-house monitoring and analysis of effluent and air pollutant parameters. • Environmental Audit and Environment Monitoring through third party are being conducted regularly.
7.	<p>Breakup of the project area</p> <p>a) Submergence area: forest & non-Forest</p> <p>b) Others</p>	<p>Total Land: 2,04,995 m² Green Belt Area: 92,247 m²</p> <p>Not Applicable (NA)</p> <p>NA</p>
8.	<p>Breakup of the project affected population with enumeration of those losing houses/dwelling units (only agricultural land, both dwelling units & agricultural land)</p> <p>SC/ST/Adivasi</p> <p>a) Others</p> <p>(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 & year of survey)</p>	Not Applicable.
9.	<p>Financial details:</p> <p>Project cost as originally planned and subsequent revised estimates and the year of price reference</p> <p>a) Allocation made for environmental management plans with item wise and year wise break-up</p> <p>b) Benefit cost ratio/Internal rate of return and the year of assessment</p> <p>c) Whether it includes the cost of environmental management as shown in the above</p> <p>d) Actual expenditure incurred on the project so far</p> <p>e) Actual expenditure incurred on the environmental management plans so far</p>	<p>Project Cost : Rs. 202.50 Crores</p> <p>Allocation made for environmental management plans with item-wise & year wise break up is attached as per Annexure – 2.</p>
10.	Forest land requirement	Not Applicable.

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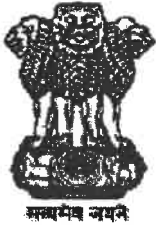


	<p>a) The status of approval for diversion of forest land for non-forestry use</p> <p>b) The status of clearing felling</p> <p>c) The status of compensatory afforestation, if any</p> <p>d) Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far</p>	
11.	The status of clear felling in non-forest areas (Such as submergence area or reservoir, approach roads.), if any with quantitative information required.	Not Applicable.
12.	<p>Status of Construction (Actual &/or planned)</p> <p>a) Date of commencement (Actual &/or planned)</p> <p>b) Date of completion (Actual &/or planned)</p>	This expansion project is on hold due to covid-19 effect.
13.	Reason for the delay If the project is yet to Start.	This expansion project is on hold due to covid-19 effect.
14.	<p>Dates of site visits</p> <p>a. The dates on which the project was monitored by the Regional office on previous occasion, if any</p> <p>b. Date of site visit for this monitoring report</p>	<p>01/01/2021</p> <p>Visit Notice of GPCB are attached as Annexure – 3. (Analysis results-Not Available) Date of visit notice is mention in attached annexure.</p>
15.	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits (The first manufacturing report may contain the details of all the letters issued so far, but the letter reports may cover only the letters issued subsequently)	<p>Last Six Monthly Reports (December-2020 to May- 2021) was submitted.</p> <p>Form–V-Environmental Audit Statement for the financial year 2020– 2021 was submitted to GPCB. Copy of the same is attached as Annexure – 4.</p>

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ENVIRONMENTAL CLEARANCE (EC) BY MOEF&CC, NEW DELHI
F.No. J-11011/466/2011-IA II (I) dated 13/03/2020



सत्यमेव जयते

By Speed Post/Online

**F. No. J-11011/466/2011- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-IISection)**

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 13th March, 2020

To

M/s Hindustan Chemicals Company Ltd
Plot No.26-37, 54-57, 122, 143,
Village Asnabad, Tehsil Olpad,
District **Surat** (Gujarat)

Sub: Manufacturing of Sodium Cyanide Other Cyanide based products by M/s Hindustan Chemicals Company Ltd at Plot No.26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat (Gujarat) - Environmental Clearance - reg.

Sir,

This proposal was considered by the Ministry for grant of environmental clearance as per the direction of Hon'ble National Green Tribunal (Western Zone) Bench, Pune vide order dated 7th December, 2017 in Appeal No.17/2016 (WZ) in the matter of 'Gujarat Khedut Samaj & othrs Vs MoEF&CC & othrs. The Hon'ble NGT vide order dated 7th December, 2017 has set aside the EC dated 22nd January, 2016 and directed to EAC and Ministry to give recommendation and take decision in accordance with law.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Manufacturing of Sodium Cyanide & other Cyanide based products by M/s Hindustan Chemicals Company Ltd located at Plot No.26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat (Gujarat).

3. List of existing and proposed products is as under:

S. No.	Product	Existing MT/Annum	Proposed MT/Annum	Total MT/Annum
1	Hydrogen Cyanide	5100	--	5100
2	Sodium Cyanide	6372	15000	21372
3	Potassium Cyanide	2000	-	2000
4	Sodium / Potassium Ferro Cyanide	1000	-	1000
5	Diphenyl Guanidine	1260	-	1260
6	Sodium Dicyanide	300	-	300
7	Mandelonitrile	2500	-	2500
8	Heat Treatment Salt	720	-	720
9	Cyanohydrines	5000	2000	7000
10	Nitriles	3000	300	3300
11	Cyanide Based Products	3500	6300	9800
	Total	30752	23600	54352

EC for M/s Hindustan Chemicals Company Ltd

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12	Ammonium Sulphate (By-product)	2649	-	2649
13	NG based CPP	2 MW	-	2 MW

Bifurcation of Product List

S. No.	Product	Existing MT/Annum	Proposed MT/Annum	Total MT/Annum
1	Hydrogen Cyanide	5100	-	5100
2	Sodium Cyanide	6372	15000	21372
3	Potassium Cyanide	2000	-	2000
4	Sodium Ferro Cyanide	1000	-	1000
5	Potassium Ferro Cyanide			
6	Diphenyl Guanidine	1260	-	1260
7	Sodium Dicyanide	300	-	300
8	Mandelonitrile	2500	-	2500
9	Heat Treatment Salt	720	-	720
10	Cyanohydrines Group			
i)	Meta Phenoxy Benzaldehyde Cyanohydrin (MPBAD Cyanohydrin)	5000	-	5000
ii)	Formaldehyde Cyanohydrin (Glycolonitrile)			
iii)	Acetone Cyanohydrin			
iv)	Methyl Ethyl Ketone Cyanohydrin			
v)	Acetaldehyde Cyanohydrin (Lactonitrile)			
vi)	Para Anisaldehyde Cyanohydrin			
vii)	Cyclohexanone Cyanohydrin			
viii)	Methyl Propyl Ketone Cyanohydrin			
ix)	Methyl Mercapto Butyronitrile (Methyl Mercapto Propionaldehyde Cyanohydrin)			
x)	Cyclo Pentanone Cyanohydrin	-	500	500
xi)	2-Chloro Benzaldehyde Cyanohydrin (2-Chloro Mandelonitrile)	-	500	500
(xii)	Ortho Toly Benzaldehyde Cyanohydrin (Ortho Toly Mandelonitrile)	-	1000	1000
	Total of Cyanohydrines Group	5000	2000	7000
11	Nitriles Group			
i)	Isophoron Nitrile	3000	-	3000
ii)	Imino Diacetoneitrile			
iii)	Succinonitrile			
iv)	3-Hydroxy Propionitrile			

v)	Methyl Amino Acetonitrile Hydrochloride			
vi)	Methylene Amino Aceto Nitrile (MAAN)	-	300	300
	Total of Nitriles Group	3000	300	3300
12	Cyanide Based Products			
i)	Sodium Cyano Acetate	3500	-	3500
ii)	Cyanamide (Crystals & Aqueous Solution)			
iii)	Para Anisaldehyde Cyanohydrin			
iv)	DiorthoTolyl Guanidine (DOTG)			
v)	Zinc Cyanide	-	300	300
vi)	Isophoron Diamine	-	6000	6000
	Total of Cyanide Based Products	3500	6300	9800
	Total	30/52	23600	54352
13	NG Based CPP	2 MW	--	2 MW
14	Ammonia Sulphate (By-Product)	2649	--	2649

4. Total land area is 204995 sqm. Industry will develop greenbelt in 33% area of the total project area.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, etc. within 10 km from the project site. Tapi River flows at a distance of 9.5 km.

6. The project/activity is covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' of Schedule of Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

7. The ToR for the project was granted on 17th February, 2012 and the public hearing was conducted on 14th November, 2014 by the Gujarat Pollution Control Board. However, the proposal for environmental clearance was appraised by the EAC, considering the project site located in notified Industrial area (Olpad Industrial Area) and thus exempting from public consultation/hearing. The EC dated 22nd January, 2016 granted to the project finds mention that public consultation/hearing was exempted as per section 7(i), III stage (3) Para (i)(b) of the EIA Notification, 2006.

8. As per the direction of Hon'ble NGT vide order dated 7th December, 2017 and subsequent approval of the Ministry the proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 27-28 March, 2018, 24-26 April, 2018, 25-27 June, 2018, 27-29 August, 2018 and 29-31 October, 2018 in the Ministry, wherein the EAC recommended the proposed expansion project for grant of environmental clearance.

9. The proposal was further examined in the Ministry and the project proponent submitted an undertaking and declared that the Sodium Cyanide manufactured by them shall not be used as insecticidal purpose nor it shall be used for manufacturing of banned pesticide mentioned in the Notification issued on 18th August, 2018 by the Ministry of Agriculture & Farmers Welfare.

EC for M/s Hindustan Chemicals Company Ltd

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10. The project proponent also confirmed that they will ensure that the customers to whom they sell their Sodium Cyanide shall not use it for insecticidal purpose nor their end use shall be for insecticidal purpose and they shall not use it for manufacturing of pesticide. The project proponent has also submitted the list of buyers and undertaking from them in this regard.

11. The proponent has also submitted the import permit for Sodium Cyanide issued by Secretary, Central Insecticide Board and Registration Committee on dated 11th January, 2019.

12. Based on the proposal submitted by the project proponent, recommendations of the EAC (Industry-2) and further examination in the Ministry, the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for Manufacturing of Sodium Cyanide & other Cyanide based products by M/s Hindustan Chemicals Company Ltd located at Plot No.26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat (Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of additional terms and conditions as under:-

A. Specific conditions:

- (i) *Online Gas Detector for Hydrogen Cyanide to be calibrated to 1 ppm level from 4 ppm at present to have further safety assurance.*
- (ii) *At least 5% of total cost of the project to be earmarked towards the Enterprise Social Commitment based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office of MoEF & CC. Implementation of such program should be ensured accordingly in a time bound manner.*
- (iii) *National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.*
- (iv) *Adequate stack height shall be provided to gas fired boilers.*
- (v) *All the gas from the process containing HCN shall be incinerated in the incinerator. Scrubber and Stack of adequate height shall be provided to incinerator. Bag filter, waste scrubber and stack of adequate height shall be provided to heat treatment salt plant, ammonia absorption column to ammonium sulphate recovery plant and Cyclone separator to control particulate emissions. Efficiency of pollution control device shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.*
- (vi) *In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals, materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials*

storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limit stipulated by the GPCB.

- (vii) For further control of fugitive emissions, following steps shall be followed:
- (a) Closed handling system shall be provided for chemicals.
 - (b) Reflux condenser shall be provided over reactor.
 - (c) System of leak detection and repair of pump/pipeline based on preventive maintenance.
 - (d) The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
 - (e) Cathodic protection shall be provided to the underground solvent storage tanks.
- (viii) A proper Leak Detection and Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.
- (ix) Continuous monitoring system for HCN, Chlorine, HCl and NH₃ as well as VOCs, shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits. All necessary steps should be taken for monitoring of HCN, chlorine, HCl and NH₃ as well as VOCs in the proposed Plant.
- (x) Alarm for chlorine leakage if any in the liquid chlorine storage area shall be provided along with automatic start of the scrubbing system.
- (xi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- (xii) Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No.826 (E) dated 16th September, 2009. The levels of PM_{2.5}, PM₁₀, SO₂, NO_x, CO and VOC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the Company and at important public places. The Company shall upload the 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 GPCB.
- (xiii) Solvent management shall be carried out as follows:
- (a) Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses. It shall be ensured that solvent recovery should not be less than 95%.
 - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - (d) Solvent shall be stored in a separate space specified with all safety measures.
 - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.

- (f) Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.
- (xiv) Total water requirement from Kakrapar Canal shall not exceed 600.3 cum/day after expansion in effect of ZLD scheme submitted by PP and prior permission should be obtained from the Competent Authority.
- (xv) Industrial effluent generation should not exceed 512 cum per day. Effluent will be segregated into high TDS/COD and low COD /TDS effluent streams. High TDS/COD effluent stream will be evaporated in multiple effect evaporators (MEE). Condensate will be treated in the condensate treatment unit. Low TDS/COD Effluent stream will be treated in the effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment (reverse osmosis) . Permeate will be reused/ recycled for cooling tower makeup. The proposed effluent treatment scheme for the existing in it as well as propose expansion is based on 'zero effluent discharge'. Water quality of treated effluent should meet the norms prescribed by CPCB/SPCB.
- (xvi) 'Zero' effluent discharge shall be adopted and no effluent shall be discharged outside the premises.
- (xvii) Automatic/ online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the company's website.
- (xviii) Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (xix) Incinerator should be design as per CPCB guidelines SO₂, NO_x, HCN, HCL and emission shall be monitor in the stack regularly.
- (xx) Hazardous chemicals shall be stored in tanks in Tank farms, drums, carboys etc. flame arrestor shall be provided on tank farm. Solvent transfer shall be by pumps.
- (xxi) The company shall obtain authorisation for collection, storage and disposal of hazardous waste under the Hazardous waste (Management Handling and Trans Boundary Movement rules, 2008 and amended as on date for the management of hazardous waste and prior permission from GPCB shall be obtained for disposal of solid/ hazardous waste in the TSDF. Measure shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
- (xxii) As proposed ETP sludge, incineration ash and evaporation residue shall be sent to TSDF site. High calorific value waste such as spent organic shall be sent to cement factory/ incinerated.
- (xxiii) The company shall strictly comply with the rules and guidelines under Manufacture Storage and Import of hazardous chemicals rules (MSIHC) 1989 as amended in October 1994 and January 2000. All Transportation of Hazardous Chemicals shall be as per the motor vehicle act MVA 1989.
- (xxiv) The company shall undertake following waste minimization measures.
- (a) Metering and control of quantities of active ingredients to minimise waste.
 - (b) Reuse of by- product from the process as raw materials or as raw material substitute in other processes.

- (c) Use of automated filling to minimise spillage.
- (d) Use of close feed system in to batch reactors.
- (e) Venting equipment through Vapour recovery system.
- (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xxv) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. firefighting system shall be as per the norms.
- (xxvi) Occupational health surveillance of the worker shall be done on a regular basis and record maintained as per the Factories Act.
- (xxvii) As proposed Green Belt over 33 % total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of project area, in downward direction and along roadside etc. Selection of plant species as per the CPCB guideline in consultation with DFO.
- (xxviii) The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.
- (xxix) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, Medical Health Care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction waste shall be manage so that there is no impact on the surrounding environment.
- (xxx) The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018. The said OM is available at the Ministry's website (PARIVESH portal i.e. www.parivesh.nic.in). The grant of Environmental Clearance is further subject to compliance of generic conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018.

B. General Conditions:

- (i) The Project Proponent shall obtain all other statutory/necessary permissions/recommendations/NOCs prior to start of construction/operation of the project, which inter alia include, permission/approvals under the Forest (Conservation) Act, 1980; the Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time, and other Office Memoranda/Circular issued by the Ministry of Environment, Forest and Climate Change from time to time, as applicable to the project.
- (ii) The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.
- (iii) The project authorities shall adhere to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.
- (iv) The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The

recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.

- (v) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (vi) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.
- (vii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (viii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (ix) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (x) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (xii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (xiii) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.
- (xiv) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xv) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xvi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xvii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xviii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of

monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

- (xix) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board 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 compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xx) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xxi) 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.
- (xxii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

13. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.


14. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

15. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

16. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

17. This EC is issued in supersession of EC dated 22nd January, 2016 as the Hon'ble NGT has set aside the EC dated 22nd January, 2016 and directed to EAC and Ministry to give recommendation and take decision in accordance with law.

18. This issues with the approval of the competent authority.


(Dr. R. B. Lal)
Scientist 'E' / Additional Director
(Dr. R. B. LAL)
वैज्ञानिक 'ई' / Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

EC for M/s Hindustan Chemicals Company Ltd

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, **Bhopal** -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, **Gandhinagar** (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, **Gandhinagar** (Gujarat) - 10
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. The District Collector, District **Surat** (Gujarat)
7. Guard File/Monitoring File/Website/Record File


(Dr. R. B. Lal)
Scientist 'E'/Additional Director

Six Monthly Compliance of conditions stipulated by MoEF for M/s. Hindusthan Chemicals Company

With reference to: EC order No. J-11011/466/2011-IA II (I) dated 13/03/2020

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

Name of unit: M/s. Hindusthan Chemicals Company, Plot No. 26-37, 54-57, 122, 143, Village: Asnabad, Tehsil: Olpad, Dist: Surat, State: Gujarat

SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN																																																		
1.	Order No. J-11011/466/2011-IA II (I) dated 13/03/2020		--																																																		
2.	The Ministry of Environment, forests and Climate change has examined the proposal for EC to the project for manufacturing of Sodium Cyanide & other cyanide based products by M/s. Hindusthan Chemicals Company located at plot no. 26-37, 54-57, 122, 143, Village Asnabad, Tehsil Olpad, District Surat, Gujarat	Complied	Our production Capacity is within the consent Limit. We submit monthly report to GPCB.																																																		
3.	List of existing & proposed products is as under:																																																				
	<table border="1"> <thead> <tr> <th rowspan="2">Sr. no.</th> <th rowspan="2">Name of Product</th> <th colspan="3">Production Capacity (MT/Annum)</th> </tr> <tr> <th>Existing</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Hydrogen Cyanide</td> <td>5100</td> <td>--</td> <td>5100</td> </tr> <tr> <td>2</td> <td>Sodium Cyanide</td> <td>6372</td> <td>1500</td> <td>2137</td> </tr> <tr> <td>3</td> <td>Potassium Cyanide</td> <td>2000</td> <td>--</td> <td>2000</td> </tr> <tr> <td>4</td> <td>Sodium Ferro Cyanide</td> <td rowspan="2">1000</td> <td rowspan="2">--</td> <td rowspan="2">1000</td> </tr> <tr> <td>5</td> <td>Potassium Ferro Cyanide</td> </tr> <tr> <td>6</td> <td>Diphenyl Guanidine</td> <td>1260</td> <td>--</td> <td>1260</td> </tr> <tr> <td>7</td> <td>Sodium Dicyanamide</td> <td>300</td> <td>--</td> <td>300</td> </tr> <tr> <td>8</td> <td>Mandelonitrile</td> <td>2500</td> <td>--</td> <td>2500</td> </tr> <tr> <td>9</td> <td>Heat Treatment</td> <td>720</td> <td>--</td> <td>720</td> </tr> </tbody> </table>	Sr. no.	Name of Product	Production Capacity (MT/Annum)			Existing	Proposed	Total	1	Hydrogen Cyanide	5100	--	5100	2	Sodium Cyanide	6372	1500	2137	3	Potassium Cyanide	2000	--	2000	4	Sodium Ferro Cyanide	1000	--	1000	5	Potassium Ferro Cyanide	6	Diphenyl Guanidine	1260	--	1260	7	Sodium Dicyanamide	300	--	300	8	Mandelonitrile	2500	--	2500	9	Heat Treatment	720	--	720		
Sr. no.	Name of Product			Production Capacity (MT/Annum)																																																	
		Existing	Proposed	Total																																																	
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9	Heat Treatment	720	--	720																																																	



SR. NO.	DESCRIPTION OF CONDITION					COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
		salt					
10	CYNOHYDRINES GROUP						
(i)	Meta phenoxy Benzaldehyde cyanohydrin (MPBAD cyanohydrin)						
(ii)	Formaldehyde Cyanohydrin (Glyconitrile)						
(iii)	Acetone cyanohydrin						
(iv)	Methyl ethyl ketone cyanohydrin						
(v)	Acetaldehyde cyanohydrin (Lactonitrile)	5000	--		5000		
(vi)	Para Anisaldehyde cyanohydrin						
(vii)	Cyclohexanone cyanohydrin						
(vii)	Methyl propyl ketone cyanohydrin						
(ix)	Methyl MercaptoButyronitrile (Methyl Mercaptoproponaldehyde Cyanohydrin)						
(x)	Cyclo pentanone cyanohydrin	--	500		500		
(xi)	2-Chloro Benzaldehyde cyanohydrin (2-chloro Mandelonitrile)	--	500		500		
(xii)	Ortho Toly	--	1000		1000		

P



SR. NO.	DESCRIPTION OF CONDITION				COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	Benzaldehyde Cyanohydrin (Ortho Toly Mandelonitrile)					
	Total of Cyanohydrines Group	5000	2000	7000		
11	NITRILES GROUP					
i)	Isophoron nitrile	3000	--	3000		
ii)	IminoDiacetonitrile					
iii)	Succinonitrile					
iv)	3-Hydroxy propionitrile					
v)	Methyl Amino Acetonitrile Hydrochloride					
vi)	Methylene Amino Aceto Nitrile (MAAN)	--	300	300		
	Totals of Nitriles Group	3000	300	3300		
12	CYANIDE BASE PRODUCTS					
i)	Sodium cyano Acetate	3500	--	3500		
ii)	Cyanamide (Crystals & Aqueous Solution)					
iii)	Para Anisaldehyde Cyanohydrin					
iv)	Diortho Toly Guanidine (DOTG)					
v)	Zinc Cyanide	--	300	300		
vi)	Isophoron Diamine	--	6000	6000		
	Total of Cyanide Based Products	3500	6300	9800		
13	N G based CPP	2 MW	--	2 MW		

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SR. NO.	DESCRIPTION OF CONDITION					COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	14	Ammonia Sulphate (By-Product)	2649	--	2649		
4.	Total Land Area is 204995 Sqm. Industry will developed greenbelt in 33 % area of the total project area.					Complied	We have developed greenbelt area which is approx. 45% of the total plot Area.
5.	There are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, etc. within 10 km from the Project site. Tapi river Flows at a distance of 9.5 Km.					Complied	National parks, wildlife sanctuaries, Biosphere Reserves, tiger/elephant reserves, wildlife corridors etc. are not cover within 10 km from the project site.
6.	The project/activity is covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (Excluding formulation)' of schedule of Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at central level by the sectoral EAC in the Ministry.					Complied	Our project is covered under category A of item 5(b).
7.	The ToR for the project was granted on 17 th February 2012 and the public hearing was conducted on 14 th November, 2014 by the GPCB. However, the proposal for EC was appraised by the EAC, considering the project site located in notified Industrial Area (Olpad Industrial area) and Thus exempting from public consultation/Hearing. The EC dated 22 nd January 2016 granted to the project finds mention that public consultation/Hearing was exempted as per section 7(i), III stage (3) Para (i)(b) of the EIA Notification, 2006.					Noted & Complied	EC has been granted on the advice of Hon'ble NGT vide order dated 7 th Dec, 2017, after considering all aspects of Public Hearing, which was held on 14 th Nov, 2014.
8.	As per the direction of Hon'ble NGT vide order dated 7 th December, 2017 and subsequent approval of the Ministry the proposal was considered by the experts Appraisal Committee(Industry-2) in its meetings held during 27-28 March 2018, 24-26 April, 2018, 25-27 June, 2018, 27-29 august, 2018 and 29-31 october, 2018 in the ministry, wherein the EAC recommended					Noted & Complied	We have received latest EC copy on dated: 13/03/2020 by MoEF.

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	the proposed expansion project for grant of environmental clearance.		
9.	The proposal was further examined in the Ministry and the project proponent submitted an undertaking and declared that the Sodium Cyanide Mfg. by them shall not be used as insecticidal purpose nor it shall be used for Mfg. of banned pesticide mentioned in the Notification issued on 18 th August, 2018 by the Ministry of Agriculture & Farmers welfare.	Noted & complied	We have follow notification issued on dated 18 th august, 2018 by the Ministry of Agriculture & Farmers Welfare.
10.	The project proponent also confirmed that they will ensure that customers to whom they sell their Sodium cyanide shall not use it for insecticidal purpose not their and use shall be for insecticidal purpose and they shall not use it for manufacturing of pesticides. The project proponent has also submitted the list of buyers and undertaking from them in this regard.	Noted & complied	We follow as per same.
11.	The proponent has also submitted the import permit for sodium cyanide issued by secretary, central insecticides board and regulation committee on dated 11 th January, 2019.	Noted & Complied	We follow as per same.
12.	Based on the proposal submitted by the project proponent, recommendation of the EAC (Industry-2) and further examination in the Ministry, the Ministry of Environment Forest and Climate change hereby accords EC to the project for Mfg. Sodium cyanide & other Cyanide based products by M/s. Hindusthan Chemicals Company located at plot No. 26-37, 54-57, 122, 143, village Asnabad, Tehsil-Olpad, district-Surat(Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of additional terms and conditions as under:-	Noted & Complied	We follow all conditions as per mention in EC copy.
A	<u>SPECIFIC CONDITIONS:</u>		
i)	Online Gas Detector for hydrogen cyanide to be calibrated to 1 ppm level from 4 ppm at present to have further safety assurance.	Noted & Complied	We are regularly carried out & calibrate to 1 ppm level of online gas detector for hydrogen cyanide.



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
ii)	At least 5% of total cost of the project to be earmarked towards the Enterprise social commitment based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional office of MoEF & CC. Implementation of such program should be ensured accordingly in a time bound manner.	Complied	Please Refer Annexure-18
iii).	National Emission Standard for Pesticide Manufacturing Industry issued by the Ministry vide G.S.R 446(E) dated 13 th June, 2011 as amended from time to time shall be followed.	Complied	Industry meets with the National Emission Standard for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R 446(E) dated 13 th June, 2011.
iv)	Adequate stack height shall be provided to gas fired boiler.	Complied	Adequate stack height i.e. 30 m has been provided for gas fired boiler.
v)	All the gas from the process containing HCN shall be incinerated in the incinerator. Scrubber and Stack of adequate height shall be provided to incinerator. Bag filter, Water scrubber and stack of adequate height shall be provided to heat treatment salt plant, ammonia absorption column to ammonium sulphate recovery plant and cyclone separator to control particulate emissions. Efficiency of pollution control device shall be monitored regularly and maintained properly. Scrubber vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipment so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.	Complied	Proper air pollution control equipment has been provided at adequate stack height to check the flue gas emission as well as process gas emission from Tail Gas Incinerator Boilers. HCC has installed and commissioned online stack monitoring gas analyzer and TOC meter. Waste gas from all plants is driven under vacuum to existing Incinerator. HCN content in flue gas and efficiency of pollution control devices are being monitored on monthly basis by external NABL approved laboratory and also by internal Environmental Quality Lab, twice in a month basis. Bag Filter & Water Scrubber have been provided at Incinerator while Cyclone Separator has also been



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			provided at auxiliary boiler. Interlocking system has been provided with the pollution control equipment to plant automatically Stopped in case of any increase in pollution level. Stack Monitoring Reports are attached as per Annexure 12.
vi).	In plant control measures for checking fugitive emissions from the entire vulnerable source shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be providing at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, products, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall confirm to the limits stipulated by the GPCB.	Complied	Fugitive emissions in the work zone environment, raw-material storage area are being regularly monitored by on-line detectors like HCN Detectors in HCN, NaCN, and DPG & Mandelonitrile /Cyanohydrin plant. Portable gas detectors are also available at all plants. Company has also engaged a third party for monitoring of finished go-down for HCN, HCl, VOC, Moisture and ventilation. Water sprinkling system is provided in HCN / ammonia / Chlorine at storage loading and unloading areas to control emissions. Work place Monitoring Reports are attached as per Annexure 10.
vii)	For further control of fugitive emissions, following steps shall be followed: a) Closed handling system shall be Provided for chemicals. b) Reflux condenser shall be provided over reactor. c) System of leak detection and repair of pump/pipeline based on preventive Maintenance. d) The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser Operated on chilled water.	Complied	Point wise all control measure has been taken to prevent fugitive emission.

2



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	e) Cathodic protection shall be provided to the underground solvent storage tanks.		
viii)	A proper leak detection and repair (LDAR) program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emission for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	Complied	<p>Intermediate storage/dozing tank of HCN in HCN Plant, NaCN Plant, and DPG & Mandelonitrile/Cyanohydrin plant have been kept under vacuum and vent is connected to the existing incinerator. Hence, there is no chance of any leakage.</p> <p>All the joints of pipe lines and pumps are tongue & groove. All the pumps in HCN plant are submersible to avoid any gland leakage. Magnetic Seals have been installed at all raw material pumps. Reactors of other plants are closed and connected under vacuum to the incinerator. No pump is used for HCN transfer; it is done by gravity through double walled chilled brine cooled SS 316 pipe line.</p> <p>Condensers with chilled brine cooling at -5°C are provided wherever required (e.g. Reactors of Mandelonitrile/Cyanohydrin) to prevent emission or vent to incinerator.</p>
ix)	Continuous monitoring system for HCN, chlorine, HCL and NH3 as well as VOCs shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits. All necessary steps should be taken for monitoring of HCN, chlorine, HCL and NH3 as well as VOCs in the Proposed plant.	Complied	<p>We have installed continuous monitoring system at all important places/areas.</p> <p>We are carryout work place Monitoring by third party Report of the same attached as per Annexure 10.</p>
x)	Alarm of chlorine leakage if any in the liquid chlorine storage area shall be provided along with automatic	Complied	Online detector has been provided for any leakage

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	start of the scrubbing system.		occurred in the liquid chlorine storage area.
xi).	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied	Adequate preventive measures have been taken to minimize gaseous emission from DG sets by providing air pollution control equipment and stacks at adequate height (as per CPCB norms).
xii)	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16 September, 2009. The levels of PM2.5, PM10, SO2, NOx, CO and VOC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the 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 GPCB.	Complied	Ambient air Monitoring Reports are attached as per Annexure10 . Results of Ambient Air quality monitoring parameters are displayed near the main gate and summary of thereport will be updated on company website & sent to the Regional office of MOEF, the respective Zonal office of CPCB and GPCB.
xiii).	Solvent management shall be carried out as follows: a) Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses, it shall be ensured that solvent recovery should not be less than 95%. b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery. d) Solvents shall be stored in a separate space specified with all safety measures. e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	Complied	Chilled brine circulation system has been provided to condensate solvent vapors and reduce solvent losses. Mechanical seals are provided wherever required in reactors and pumps. Condensers are provided with sufficient HTA & residence time to achieve more than 95% recovery. Separate space has been already provided as per requirement of Petroleum Act for storage of solvent. Unit has been provided with proper earthing for all electrical equipment.

f



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	f) Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.		Where ever flammable chemicals are being used, flame proof motors & fitting are provided.
xiv).	Total water requirement from Kakrapar Canal shall not exceed 600.3 m ³ /day after expansion in effect of ZLD scheme submitted by PP and prior permission should be obtained from the Competent Authority.	Complied	Total water requirement has been increased from 651.2 m ³ /day to 1105.2 m ³ /day after expansion. Out of which, fresh water requirement from Kakrapar canal are only 600.3 m ³ /day and remaining water requirement are being met through recycled water <i>i.e.</i> 505 m ³ /day. Total average wastewater generation is nil as company has implemented ZLD scheme from 1st April, 2016.
xv).	Industrial effluent generation should not exceed 512 m ³ /day. Effluent will be segregated into high TDS/COD and Low COD/TDS effluent streams. High TDS/COD effluent stream will be evaporated in Multiple Effect Evaporator (MEE). Condensate will be treated in the condensate treatment unit. Low TDS/COD effluent stream will be treated in the effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment (Reverse Osmosis). Permeate will be reused/recycled for cooling tower make up. The proposed effluent treatment scheme for the existing unit as well as proposed expansion is based on "Zero effluent discharge". Water quality of treated effluent should meet the norms prescribed by CPCB/SPCB.	Complied	Effluent generated from different plants of HCC are segregated & divided for the treatment in two schemes. Scheme - 1: Cyanide containing effluent with Ammonical Nitrogen, low TDS & very low COD-BOD: Effluent from following plants is combined for the treatment— HCN, NaCN, & SFCN – partly (only condensate water, which is major). Scheme - 2: Effluent containing high TDS & high COD – BOD: a. SFCN Plant - Mother liquor after removing SFCN. b. DPG Plant - Alkaline effluent. c. SDCN Plant d. DOTG



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			<p>Both schemes are successfully implemented & treated effluent meets all norms of GPCB.</p> <p>Industry have implemented Zero Liquid Discharge scheme from 1st April, 2016 with waste minimization for the existing ETP plants. Which is attached as Annexure – 5. Analysis reports/Visit Notice of GPCB are also attached as Annexure –3.</p>
xvi).	<p>“Zero” effluent discharge shall be adopted and no effluent shall be discharged outside the premises.</p>	Complied	<p>Industry has implemented Zero Liquid Discharge scheme from 1st April, 2016 with waste minimization for the existing ETP plants. which is attached as Annexure – 5.The total treated water is being recycled to Cooling Tower/in process. No effluent is being discharged outside the premises.</p>
xvii).	<p>Automatic /online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company’s website.</p>	Complied	<p>Automatic /online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system has been already installed.</p>
xviii)	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>	Complied	<p>Atmost care is taken to avoid spillage of chemicals.</p> <p>All the plant area has been already covered with Dyke Wall and floor pit has also been provided to recycle/transfer spillage back to plant or to ETP.</p>
xix).	<p>Incinerator should be designed as per CPCB guidelines. SO₂, NO_x, HCN, HCl and CO emissions shall be monitored in the stack regularly.</p>	Complied	<p>Strictly follow the CPCB guidelines for any environmental concern. Gaseous pollutants like SO₂, NO_x, HCN, HCl and CO emissions in flue gas emission</p>



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			and process emission are being monitored on monthly basis by external NABL approved laboratory and also by internal Environmental Quality Lab, twice in a month basis.
xx).	Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.	Complied	Hazardous chemicals are being stored with proper care in tank farm, drums etc. transfer of liquid material is transferred by pipes through pumps. Please Refer Annexure-17
xxi).	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.	Complied	The industry has obtained authorization for the storage and disposal from GPCB and has valid membership of Nandesari Environment Control Ltd. (NECL), Baroda & Bharuch Enviro Infrastructure Ltd. (BEIL), Ankleswar/ Dahej. Membership copies of the same are enclosed as Annexure – 6.
xxii).	As proposed, ETP sludge, incineration ash and evaporation residue shall be sent to TSDF site. High calorific value waste such as spent organic shall be sent to cement factory/incinerated.	Complied	The industry has obtained authorization for the storage and disposal of incineration ash, treatment and disposal of hazardous waste from GPCB and has valid membership of Nandesari Environment Control Ltd. (NECL), Baroda and Bharuch Enviro Infrastructure Ltd. (BEIL), Ankleswar & Dahej. Membership copies of the same are enclosed as Annexure –6.
xxiii)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000. All	Complied	<ul style="list-style-type: none"> Company has carried out various technical studies like HAZOP, Risk Assessment, Safety Audit etc. to

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	Transportation of Hazardous Chemicals shall be as per the. Motor Vehicle Act (MVA), 1989.		<p>understand work operation and their hazards to minimize the potential risk.</p> <ul style="list-style-type: none"> • Company has a comprehensive emergency action plan, contingency report and is also member of the District Crisis Group. • Company regularly conducts Mock Drills for various scenarios such as ON-SITE Mock Drill and observations are evaluated and implemented.1 • Company has got adequate firefighting & hydrant system network to cope with the emergency. • Company has freeze assembly points at strategic locations & emergency escape routes. Due to low movement of vehicle, HCC used to operate one gate out of two for entry and exit purpose of employees & vehicle and the second gate is being kept as an emergency exit. • Company has got 3 bed OHC within the premises which is managed by qualified Doctor and trained nurse round the clock. Also sufficient stock of Cyanide antidote kits is available in OHC. • Company organizes training on various topics regarding occupational hazard to create awareness among the workforce. • Company has organized

D



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			various awareness programmes for local Students, Teachers & Doctors.
xxiv)	The company shall undertake following waste minimization measures :-	Complied	
a)	Metering and control of quantities of active ingredients to minimize waste		Industry has already implemented sophisticated close charging system with instrumentation for metering & control of active ingredients.
b)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.		Industry is already recycling the low purity NaCN generated from scrubber-absorbers / air stripping to NaCN plant after proper filtration / de-clourization. Sodium Cyanide waste & mother liquor of NaCN are used for Sodium Ferro-cyanide manufacturing process. Acidic waste water (dilute HCl) generated from DPG Plant during the manufacture of Ferrous Chloride is being used as a raw-material.
c)	Use of automated filling to minimize spillage.		To minimize the spillage, all finished products, e.g. Sodium Cyanide, Diphenyl Guanidine & Sodium Dicyanamide etc. are filled in drums/bags automatically. Spillage is almost eliminated.
d)	Use of Close Feed system into batch reactors.		Raw-materials and process chemicals feeding system into batch reactors are in a closed system with sophisticated instrumentation.
e)	Venting equipment through vapour recovery system		Venting equipments, e.g. condensers, scrubbers & incinerators have been provided to the reactor to destruct hazardous vapour&



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			hence there will be no toxic/hazardous release to atmosphere.
f)	Use of high pressure hoses for equipment clearing to reduce wastewater generation.		Company is already using water at high pressure for cleaning the equipment.
xxv)	The unit shall make the arrangement for protection of possible fire hazards during Manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied	Company has made arrangement for the protection of possible fire hazard right from the beginning. Fire water pipe line network with fire water pond & pumps have been provided to meet any emergency. Different types of required fire extinguishers have been provided in all plants & other strategic locations. Firefighting training is also given to employees.
xxvi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied	Occupational Health Surveillance of all workers & employees is being done regularly by industry at least Twice in a year by qualified medical officer & also by an external agency, Dr. Agarwal Diagnostic Centre, Kalyan, Mumbai. Records of the same are maintained as per the Factories Act.
xxvii)	As proposed, green belt over 33 % of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Complied	Total plot area is 2,04,995 m ² out of which Greenbelt has already been developed in 92,247 sq. m., which is 45% of total land. Selected plant species is as per the CPCB guidelines in consultation with the DFO.
xxvii i)	The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.	Complied	Company has made arrangement for the protection of possible fire hazard right from the beginning. Fire water pipe



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			<p>line network with fire water pond & pumps have been provided to meet any emergency. Different types of required fire extinguishers have been provided in all plants & other strategic locations. Firefighting training is also given to employees.</p> <ul style="list-style-type: none"> • Safety training is given to all employees on joining, followed by written test and refresher safety training is also given to all employees once in a period of two years, which includes use of PPEs. • Pre-employment and routine medical examination for all employees handling chemicals is conducted regularly.
xxix)	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction waste shall be manage so that there is no impact on the surrounding environment.	Complied	Industry has already made provision for the housing of construction laborers in the company's housing colony, which is nearby the plant & has all required facilities.
xxx)	The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's office Memorandum No. 22-34/2018-IA. III, dated 9 th August, 2018. The said OM is available at the Ministry's website (Parivesh Portal i.e. www.Parivesh.nic.in) The grant of EC is further subject to compliance of generic conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA. III, Dated 9 th August, 2018.	Complied	We have complied to all conditions as mentioned in the Ministry's office memorandum No. 22-34/2018-IA. III dated 9 th August, 2018.
B	GENERAL CONDITIONS		
i)	The project proponent shall obtain all other	Complied	We have obtained necessary

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	statutory/necessary permissions/recommendations/ NOCs prior to start of construction/operation of the project, which inter alia include, permissions/approvals under the Forest (Conservation) Act, 1980; the wildlife (Protection) Act, 1972; the Coastal regulation Zone Notification, 2019 as amended from time to time, and other office Memoranda/Circular issued by the Ministry of Environment, forest and climate change from time to time, as applicable to the project.		permission from the Board.
ii)	The project proponent shall ensure compliance of ' National Emission Standards' as applicable to the project, issued by the ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.	Complied	We follow National emission standards & norms within prescribe limit. We follow rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.
iii)	The project authorities shall adhere to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.	Complied	Complied HCC has received renewed CC&A vide order no. AWH-94173 dated 04/07/2018 valid up to 14/07/2023. Also unit has received CC&A Amendment vide letter No. GPCB/CCA-SRT-50(18)/ID-20643/574125 on Dated: 01/12/2020 which is attached as Annexure - 8.
iv)	The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of schedule-1 species in the study area, as applicable to the project and submit to chief wildlife warden for approval. The recommendations shall be implemented in consultation with the state forest/Wildlife Department in a time bound manner.	Complied	Not applicable for prepare a site specific conservation plan & wild life management plan.
v)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment and Forest & climate change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh	Complied	Company assures that no further expansion or modification in the plant shall be carried out without prior approval of MoEF & CC. A fresh reference shall be made for any deviation & change in

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.		the plant.
vi)	The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	Complied	We have installed LED base lighting in premises for energy conservation and environment betterment.
vii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied	Industry has already decided the following four ambient air locations as under in consultation with GPCB. 1. HCN plant 2. ADM Office 3. R&D lab 4. Security Office
viii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	Complied	We follow NAAQ emission standards & norms within prescribe limit.
ix)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied	During the study period, the ambient noise level was within the limit as per the standard prescribed under Environment (Protection) Act, 1986, Rules, 1989 for day time and night time. For Noise level report kindly find attached Annexure- 11 .
x)	The Company shall harvest rainwater from the rooftops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	Complied	As our industry is in safe zone but we can not do rain water harvesting recharge through recharge borewell, Because it is Chemical unit, we shall plan collection of Rain water from our Rooftop area and store the catchment water from Rooftop area in underground lined tanks as per CGWA

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			<p>guidelines.</p> <p>The unit has big rooftop area 12033 sqm. Hence water collected from rooftop Area.</p> <p>The abstraction of fresh water from borewell as our unit is in Safe zone and Chemical unit, we shall collect all water from our Rooftop area and collect in underground Lined storage tanks.</p>
xi)	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.</p>	Complied	<p>Safety training is given to all employees on joining, followed by written test and refresher safety training is also given to all employees once in a period of two years, which includes use of PPEs.</p> <p>Pre-employment and routine medical examination for all employees handling chemicals is conducted regularly.</p>
xii)	<p>The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures relating to the project shall be implemented.</p>	Complied	<p>Industry has provided scrubber, dust collector, bag filter and cyclone separator wherever required.</p>
xiii)	<p>The company shall undertake all relevant measures for improving the socio economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.</p>	Complied	<p>HCC Management believes in socio-economic upliftment and undertakes various CER activities based on requirement of surrounding areas.</p> <p>Company is actively working on improving socioeconomic Conditions of</p>

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
			<p>the surrounding area by way of organizing medical camps, blood donation camps, donation to schools & villages.</p> <p>Awareness training on hazards of chemicals used/produced in plant & their preventive measures are being given to people of surrounding villages.</p> <p>Please Refer Annexure-18</p>
xiv)	The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied	<p>Company is actively working on eco-developmental measures in the project area. New tree plantation is done every year on Safety Day, World Environment Day & before monsoon.</p> <p>Company has organized various safety and environment awareness programs and also planted 750 nos. of trees within premises in the month of June 2019 to Nov 2019.</p>
xv)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied	<p>Company has already set up Environmental Management Cell (EMC) equipped with full-fledged Laboratory facility. Company has also appointed qualified Environmental Officer, who looks after day to day monitoring and management activity of the EMC.</p>
xvi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forests & climate change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/	Agreed	HCC Management believes in sustainable management of natural resources and environment of project site as well as surrounding areas.

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SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	pollution control measures shall not be diverted for any other purpose.		
xvii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ Representations, if any, were received while processing the proposal.	Complied	Copy of the clearance letter has been sent to concerned authorities. Please Refer Annexure-19
xviii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF& CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	Complied	HCC is regularly submitting summary of six monthly reports on status of compliance of EC conditions by email to Regional Office of MoEF& CC and the same comprehensive physical report by post to the Regional office of MoEF &CC, the respective zonal office of CPCB and the State Pollution Control Board.
xix)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board 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 compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF& CC by e-mail.	Complied	Environmental statement for each financial year in Form – V is being submitted to GPCB. HCC has sent copy of Form – V through courier for the financial year 2020 – 2021 to MoEF, Bhopal.
xx)	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the SPCB/committee and may also be seen at website of the Ministry and at https://parivesh.nic.in this shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned regional office of the ministry.	Complied	Information on Environmental Clearance for new projects has already been advertised in two local newspapers Gujarat Samachar on 20th March 2020 and The Times of India on 20th March 2020. Please Refer Annexure-16
xxi)	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	Noted	We agree. But this expansion project is on hold due to covid-19 effect.



SR. NO.	DESCRIPTION OF CONDITION	COMPLIANCE STATUS	CORRECTIVE & PREVENTATIVE ACTION TAKEN
	concerned authorities and the date of start of the project.		
xxii)	This Environmental clearance is granted subject to final outcome of Hon'ble supreme court of India, Hon'ble high court, Hon'ble NGT and any other court of law, if any as may be applicable to this project.	Noted & Complied	We agree.
13.	The ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Noted & Complied	We agree.
14.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted & Complied	We agree
15.	Any Appeal against this Environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted	No any appeal against EC.
16.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & control of pollution) Act, 1974, the Air(Prevention & control of pollution) Act, 1981, the Environment (Protection) act 1986, the Hazardous waste (Management, handling & transboundary Movement) rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Noted & Complied	We agree
17.	This EC is issues in supersession of EC dated 22 nd January, 2016 as the Hon'ble NGT has set aside the EC dated 22 nd January, 2016 and directed to EAC and ministry to give recommendation and take decision in accordance with law.	Noted & Complied	We agree
18.	This issues with the approval of the competent authority.	Noted	--



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SUMMARY

Hindusthan Chemical Company, formerly known as Cyanides & Chemicals Company, is a unit of HEIL. The unit was set up in the year 1982 in GIDC Industrial Estate at Olpad Taluka of Surat District in Gujarat State. The unit is engaged in manufacture of Hydrogen Cyanide (HCN) and Cyanide based products. The unique feature of the HCN manufacturing technology is that the whole system of manufacturing process is working under vacuum hence in any case hazardous gas is not released-out into the atmosphere from the production system. The unit is manufacturing of Hydrogen Cyanide, Sodium Cyanide, Potassium Cyanide, Sodium/Potassium Ferro Cyanide, Diphenyl Guanidine, Heat Treatment Salt, Sodium Dicyanamide, Cyanohydrins, Nitriles, Cyanide based products, Mandelonitrile and Natural Gas based Captive power Plant.

Under environment legislation, it is mandatory to submit six monthly compliance reports on the conditions mentioned in the Environment Clearance (EC) vide letter no.: No. J – 11011/ 466/2011 – IA II (I) dated 22/01/2016 issued by Ministry of Environment & Forests (MoEF), Govt. of India, New Delhi. Hindusthan Chemicals Company at Olpad Dist: Surat has obtained valid EC, NOC & CC&A from concerned authorities.

The industry has awarded contract for the Environmental monitoring and preparation of six monthly EC compliance report to Earthcare Enviro Solutions Pvt. Ltd. The consultancy firm has its own well equipped laboratory to measure the pollution parameters related to Environmental Monitoring (Air, Water, Wastewater, Soil) with National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation. All monitoring equipments are available to measure Stack emissions, Ambient Air quality and noise level of various plants.

Six monthly compliance report along with monitoring data are regularly submitted to the concerned department and during monitoring period of this report RO visit was also done. All the conditions stipulated in EC clearance was compiled by the project proponent.



OBSERVATIONS & RECOMMENDATIONS

- HCC has obtained valid EC, NOC & CC&A from concerned authorities.
- HCC used to operate one gate out of two for entry & exit purpose of employees & vehicle and the second gate is being kept as an emergency exit.
- All the analysis report of ambient air, stack, effluent & noise are well within the GPCB norms.
- Industry has implemented ZLD scheme and no effluent discharge outside the industry premises.
- Industry has carried out regularly pre-employment & routine medical examination for all employees.
- HCC has greenbelt area of 22 acres (approx.45%) within premises.
- HCC has installed and commissioned online stack monitoring gas analyzer and TOC meter.
- HCC has implemented rain water harvesting.
- HCC has been regularly carried out CSR activities.
- HCC has obtained membership certificate of BEIL, Ankleshwar/Dahej& NECL, Baroda for disposal of hazardous waste.
- HCC has regularly uploaded monthly data & Form-V on XGN portal.
- HCC has regularly uploaded six monthly compliance report of EC conditions on parivesh portal.

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Annexure-1

Salient Features of Project

S. No.	Description	Details
1.	Airport	Surat Airport is 22 km in S direction
2.	Railway station	Surat Railway station is 19 km in SE direction
3.	Port	Magdalla port is 26 km in S direction
4.	National Highway	NH-8 is 21 km in E direction
5.	State Highway	SH-6 is 350 m in E direction
6.	Town/City	Surat city is 15 km in SE direction
7.	Village	Olpad village is 1.5 km From nearest main locality
8.	River	Tapi river is 9.5 km in SE direction
9.	Sea	Arabian Sea is 18.5 km in SW direction

Annexure-2

Details of expenditure allocated on EMP

S. No.	Head of Expenses	Expenditure (Rs. In Lakhs)	
		Year 2019-20	Year 2020-21
1.	Effluent Treatment Facility	190.16	29.11
2.	Hazardous Waste Management Facility	21.30	16.21
3.	Green Belt Development	16.02	8.5
4.	Electricity charge to run ETP for GEB	76.93	58.35
5.	Environment Monitoring & Audit	2.31	9.28
	Total	306.72	121.45

GPCB INSPECTION VISIT & REPLY



ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ

પ્રાદેશિક કચેરી, સુરત

338, બેલ્જીયમ સ્કેવર, ટીપીકલ ફર્સ્ટ ફ્લોર, સિલ્વર પ્લાઝા કોમ્પ્લેક્સ,
લીનીયર બસ સ્ટેન્ડની સામે, રીંગ રોડ, સુરત-૩૯૫૦૦૩. (ગુજરાત)
ફોન નં. (૦૨૬૧) ૨૪૪૨૬૯૬, ૨૪૧૧૧૯૨ ફેક્સ નં. (૦૨૬૧) ૨૪૨૯૭૩૩

ISO - 9001 - 2008 & ISO - 14001-2004 Certified Organization

Website : www.gpcb.gov.in

XGN website : http://gpcb.xgn.gujarat.gov.in

E-mail : ro-gpcb-sura@gujarat.gov.in

GST No. : 24SRTG00481F1DK

તપાસ માટે દાખલ થવાની સૂચના (નોટીસ)

નં : ID - ૨૦૬૪૩

પાલી અધિનિયમ 1974 ની કલમ - 23, હવા અધિનિયમ ની 1981 ની કલમ-24 અને પર્યાવરણ (સુરક્ષા) અધિનિયમ - 1986 ની કલમ-10 હેઠળ અમોને મળેલ સત્તાની રૂએ અમો નીચે સહી કરનાર અમોને જરૂરી લાગે તેની સહાય લઈને તમામ સમયે નીચેના હેતુઓ માટે આપની જગ્યામાં દાખલ થવાનો અને તપાસ કરવાનો અધિકાર ધરાવીએ છીએ.

- (૧) અમોને સોંપેલા રાજ્ય બોર્ડ/કેન્દ્ર સરકારનાં કાર્ય બજાવવાના હેતુ માટે,
- (૨) આવા કોઈ કાર્યો બજાવવાના છે કે કેમ અને તેમ હોય તો કઈ રીતે તે બજાવવાના છે અથવા આ અધિનિયમ અથવા તે હેઠળ કરેલા નિયમોની અથવા આ અધિનિયમ હેઠળ બજાવેલી કોઈ નોટીસની, કરેલા કોઈ કુકમની, આદેશની અથવા આપેલા કોઈ અધિકારપત્રની કોઈ જોગવાઈનું પાલન કરવામાં આવી રહ્યું છે કે પાલન કરવામાં આવ્યું છે કે કેમ તે નક્કી કરવાના હેતુ માટે,
- (૩) કોઈ સાધન સામગ્રી, ઔદ્યોગિક પ્લાન્ટ, રેકર્ડ, રજીસ્ટર, દસ્તાવેજ અથવા અન્ય કોઈ મહત્વની વસ્તુની તપાસ કરવા અને તેની કસોટી કરવાના હેતુ માટે અથવા જે જગ્યામાં તેને એમ માનવાને કારણ હોય કે આ કાયદા કે તે હેઠળ કરેલા નિયમો મુજબ કોઈ ગુનો કરાવામાં આવ્યો છે અથવા થવાની તૈયારીમાં છે. તેવી કોઈ જગ્યાની ઝડતી લેવા માટે અને તેને એમ માનવાને કારણ હોય કે તે કાયદા કે તે હેઠળ કરેલા નિયમો હેઠળ શિક્ષાપાત્ર કોઈ ગુનો કરવાનો પુરાવો, તેવા સાધન સામગ્રી, ઔદ્યોગિક પ્લાન્ટ, રેકર્ડ, રજીસ્ટર, દસ્તાવેજ અથવા અન્ય મહત્વની વસ્તુ કબજે લેવા માટે અમે નીચે જણાવેલ સમયે દાખલ થઈએ છીએ

ઉદ્યોગ/કારખાનામાં દાખલ થવાનો સમય : સવારના/સાંજના 15 = 30 hrs વાગ્યે,
તા. 01/01/2021 અમારી સાથે સહાય માટે નીચેની વ્યક્તિઓ પણ છે.

૧. R.N. Patel - SO

૨.

૩.

પ્રતિ,

Shri R.P. Sharma - AVP

Hindusthan Chemicals Company
Prop. Hindusthan Engineering & Industries Ltd.
G. I. D. C. Estate,
P.O. Oipad-394 540,
Dist. Surat. (Gujarat)

સહી

અધિકારીનું નામ J.m.chaudhary

હોદ્દો

DEE



ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, સુરત

પ્રાદેશિક કચેરી, સુરત

338, બેલુચમ સ્કેવર, ટીપીકલ ફર્સ્ટ ફ્લોર, સિલ્વર પ્લાઝા કોમ્પ્લેક્સ, લીનીયર બસ સ્ટેન્ડની સામે,
સીંગ રોડ, સુરત-૩૬૫૦૦૩. (ગુજરાત) ફોન નં. (૦૨૬૧) ૨૪૪૨૬૯૬

ISO - 9001 - 2008 & ISO - 1401-2004 Certified Organisation

Website : www.gpcb.gov.in

XGN website : <http://gpcb.xgn.gujarat.gov.in>

E-mail : ro-gpcb-sura@gujarat.gov.in GST No. : 24SRTG00481F1DK

પ્રતિ શ્રી

Hindusthan Chemicals Company
Prop. Hindusthan Engineering & Industries Ltd.
G. I. D. C. Estate.
P.O. Olpad-394 540.
Dist. Surat. (Gujarat)

ID-20643

વિષય : આપના એકમની બોર્ડ દ્વારા લેવામાં આવેલ તા. 01/01/2021 નાં રેજની મુલાકાત.

શ્રીમાન,

આપના એકમની આજરોજ મુલાકાત લેવામાં આવેલ તે દરમ્યાન નીચે મુજબના મુદ્દાઓ ધ્યાનમાં આવેલ છે.

1. Submit details (for Last 3 months) about production, water consumption, W/W generation, & treated W/W (through RO Plant) re-used in utility & RO reject W/W feed in to MEE, fuel consumption, stock and disposal of hazardous waste.

ઉપરોક્ત બાબતોની પૂર્તતા દિન-૩ માં કરી અત્રેની તેમજ ગાંધીનગર ખાતેની વડી કચેરીને જાણ કરવા આથી જણાવવામાં આવે છે. સદર બાબતે પગલાં લેવામાં ચૂક થશે તો બોર્ડ દ્વારા કાયદાકીય પગલાં લેવામાં આવશે જેની નોંધ લેવી.


આ સુચના (નોટીસ) સ્વીકારનારનું નામ, હોદ્દો તથા સહી

Shei R. P. sharma - AVP

સહી 

અધિકારીનું નામ J. m. chaudhary

હોદ્દો Dee

A.TECH:17:HPS/129

2nd January 2021

GPCB ID: 20643

To,
The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector - 10/A,
Gandhinagar - 382 010

SUB.: CLARIFICATION REGARDING YOUR VISIT AT OUR INDUSTRIAL UNIT.
REF.: YOUR LETTER NO. NIL DATED 01.01.2021

Respected Sir,

With reference to above subject matter, we would like to submit clarification as under:

Q-1. "Unit has to submit details of last three months Production data, Water Consumption, waste water generation, Treated Waste Water (through RO Plant) reused in Utility, RO reject waste water feed into MEE, Fuel consumption, Stock & disposal of Hazardous waste, at Regional Office".

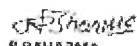
- Please refer attached Annexures for details of last three months Production data, Water Consumption, waste water generation, Treated Waste Water (through RO Plant) reused in Utility, RO reject waste water feed into MEE, Fuel consumption, Stock & disposal of Hazardous waste as per monthly patrak.

We hope you will find the above in order and we humbly request you to kindly consider our above details & oblige us.

Thanking You.

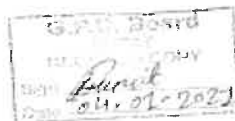
Yours faithfully,

For HINDUSTHAN CHEMICALS COMPANY


R.P. SHARMA
Asst. Vice President (Plant)

Encl: Annexure-2 pages.

Cc to: The Regional Officer,
Gujarat Pollution Control Board,
358 Belgium Square, Ring Road, Surat.



PLANT DATA FOR OCT. 2020 TO DEC. 2020

Sr No	Particulars	Oct, 2020	Nov, 2020	Dec. 2020
1	PRODUCTION DATA	Prod (MT)	Prod (MT)	Prod (MT)
	Hydrocyanic Acid	361.500	352.400	355.200
	Sodium Cyanide	574.765	559.700	563.250
	Potassium Cyanide	152.700	0.000	0.000
	Sodium Ferrocyanide / Potassium Ferrocyanide	0.000	10.000	0.000
	Diphenyl Guanidine	0.000	0.000	0.000
	Sodium Dicyanamide	0.000	0.000	0.000
	Mandelonitrile	103.180	109.780	134.200
	Heat treatment Salt	0.000	0.000	0.000
	Cyanohydrin	65.200	66.250	64.540
	Nitrile	0.000	0.000	0.000
	Cyanide Based Product	0.000	0.000	0.000
	TOTAL	1257.345	1098.13	1117.29
	2	Water Consumption(M3)	11425	11510
3	Waste Water Generation M3	7661	2792	2934
4	Treated Waste Water (through R.O plant) used in Utility M3 (inclusive of steam condensate)	3268	4000	4127
5	R.O Reject Waste Water Feed to MEE M3	505	476	546

PLANT DATA FOR OCT. 2020 TO DEC. 2020

Sr No	Particulars	Oct., 2020	Nov., 2020	Dec. 2020
6	FUEL CONSUMPTION DATA	-	-	-
	AUXILIARY BOILER			
	NATURAL GAS (NM ³)	73010	115597	120735
	FURNACE OIL (KL)	0	0	0
	EMERGENCY DG SETS			
	HIGH SPEED DIESEL (KL)	9.230	4.500	3.850
7	Hazardous Waste			
	Type of Waste	Stock at Present in Kgs	Total Disposal Carried in last Three Months (Kg)	
	Residue from ZLO	2847	45730	
	Activated Carbon	7564	0	
	Ferri Hydroxide	1502	0	
	Residue from ET Plant (MEE)	2699	0	

FORM-V



HINDUSTHAN CHEMICALS COMPANY
(An enterprise of THE HINDUSTHAN GROUP)

CIN : U93000WB1998PLC086303

G.I.D.C. Industrial Estate, Olpad - 394540, DIST SURAT, GUJARAT (INDIA) Email : hccolperhcc-cyanides.com
TELEPHONE : 02621-221681 to 221683, M: 9978444894, 9973444895 Telefax: 02621-221235

F:HCC:TECH:17:RPS/1A

23rd April, 2021

GPCB ID: 20643

To,
The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector - 10/A,
GANDHINAGAR - 382 010.

SUB. : SUBMISSION OF AN ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING ON
31ST MARCH 2021

Respected Sir,

With reference to the above subject matter, we would like to submit herewith
An Environmental Statement for the financial year ending 31st March, 2021.

We hope you would find the same in proper order & oblige us.

Thanking you,

Yours faithfully,
For Hindusthan Chemicals Company

R P Sharma
R P Sharma
Asst. Vice President(Plant)
Encl : Form-V & Annexure-I to III.

- cc: 1. Regional Officer
Gujarat Pollution Control Board
338, Belgium Square, Typical 1st Floor
Silver Plaza Complex, Near Linear Bus Stand
Ring Road, Surat - 395 003
2. The Director (Environment)
Ministry of Environment & Forests
Regional Office (Western Region)
Link Road No. 3, E-5 Arera Colony
Bhopal - 462 016 (MP)

RK
23/04/21
Gujarat Pollution Control Board
Head Office
Sector-10-A,
Gandhinagar-382010.

- By Regd A/D

FORM - V

(See Rule 14)*

From :

M/s. HINDUSTHAN CHEMICALS COMPANY
GIDC INDUSTRIAL ESTATE, P.O - OLPAD,
TAL.: OLPAD, DIST.: SURAT- 394540.

To,

Gujarat Pollution Control Board
"Paryavaran Bhavan",
Sector - 10 A,
GANDHINAGAR - 382 010

Environmental Statement for the financial year ending the 31st March, 2021

PART - A

(i) Name and address of the owner/
Occupier of the industry operation
or process : **MR. R P SHARMA**
(ASST. VICE PRESIDENT-PLANT)
M/s. HINDUSTHAN CHEMICALS COMPANY
GIDC INDUSTRIAL ESTATE, P.O - OLPAD,
TAL.: OLPAD, DIST.: SURAT- 394540.

(ii) Industry category -
Primary - (STC Code)
Secondary - (SIC Code) : **Large Scale (Red Category)**

(iii) Production capacity Units :

PRODUCTS	CAPACITY
Hydrogen Cyanide	5100 MT/Annum
Sodium Cyanide	6372 MT/Annum
Potassium Cyanide	2000 MT/Annum
Sodium Ferrocyanide	1000 MT/Annum
Potassium Ferrocyanide	1000 MT/Annum
Diphenyl Guanidine	1260 MT/Annum
Sodium Dicyanamide	300 MT/Annum
Mandelonitrile	2500 MT/Annum
Heat Treatment Salt	720 MT/Annum
Cyanohydrines	5000 MT/Annum
Nitrites	3000 MT/Annum
Cyanide based products	3500 MT/Annum
BY PRODUCT	CAPACITY
Ammonium Sulphate	2649 MT/Annum

(iv) Year of establishment : **December-1982**

(v) Date of the last Environmental
Statement submitted : **06/04/2020**



- Submission of Environmental Statement is in accordance with the provisions of Rule-14 of the Environment (Protection), Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G.S.R. 386 (F) in the Gazette of India-Extraordinary- Part II Section-3 Subsection (i), No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-3-1993 G. S. R. 329 (E), of the Gazette of India –Extraordinary Part – II Section –3 Subsection (i) No. 170 dated 13-3-1993.

"Every person carrying on an industry, operation or process requiring Consent under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Wastes (Management and Handling) Rules, 1989 published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or Before the Thirtieth day of September every year, beginning 1993."

PART –B

Water and Raw Material Consumption (As per Total Working Days 353)

(1) Water Consumption M³/day

Process & Washing	22.288 m ³ /day
Boiler/Cooling	351.711 m ³ /day
Domestic	8.358 m ³ /day

Name of Product	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
	(1)	(2)
1. Hydrogen Cyanide		
2. Sodium Cyanide	9.76 m ³ /MT	9.10 m ³ /MT
3. Potassium Cyanide		
4. Sodium Ferrocyanide		
5. Potassium Ferrocyanide		
6. Diphenyl Guanidine		
7. Sodium Dicyanamide		
8. Mandelonitrile		
9. Heat Treatment Salt		
10. Cyanohydrines		
11. Nitrites		
12. Cyanide based products		



(ii) Raw material consumption

* Name of raw material	Name of Product	Consumption of raw material per Unit of output	
		During the previous financial year	During the current financial year

Please refer Annexure - I

Industry may use codes if disclosing details of raw material would violate contractual Obligations, otherwise all industries have to name the raw materials used.

PART - C

Pollution discharge to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants in discharged (mass/volume)	Percentage of variation from prescribed Standards with reason
(a) Water			Please refer Annexure - II
(b) Air			Please refer Annexure - III

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Waste	Total Quantity (kg.)	
	During the previous financial year	During the current financial year
(a) From Process	Activated Carbon : 2.564 MT Ferric Hydroxide : 1.502 MT Contaminated Polythene Liner : 0.025 MT	NIL
(b) From pollution control facilities	ZLD Residue : 5.197 MT ETP Sludge : 0.699 MT Residue from ETP(MEE) : 2 MT	ZLD Residue : 164.53 MT ETP Sludge : 0.015 MT



**PART – E
SOLID WASTE**

Hazardous Waste	Total Quantity (kg.)	
	During the previous financial year	During the current financial year
(a) From Process	Whole quantity of Solid Waste was dried and Then sent to M/s. Bharuch Enviro Infrastructure Ltd. For Landfilling, Incineration, Treatment and Disposal.	Whole quantity of Solid Waste was dried and Then sent to M/s. Bharuch Enviro Infrastructure Ltd for Landfilling, Incineration, Treatment and Disposal.
(b) From pollution control facilities		
(c) (1) Quantity recycled or re-utilised within the unit (2) Sold (3) Disposed		

PART – F

Please specify the characterizations (in terms of composition and quantity) of hazardous as well as solid and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste:

i) Activated Carbon

- Semi solid

Activated Carbon	NIL
Water	NIL
Oxidized Polymer of DPG (Loss on ignition at 500° C.)	NIL

ii) Ferri Ferrocyanide

- Ferri Ferrocyanide
Water

NIL
NIL

iii) Ferric Hydroxide

- Ferric Hydroxide
Water
Sodium Ferrocyanide

NIL
NIL
NIL

Solid Waste:

i) Contaminated Salt

Sodium Chloride
Cyanide content

NIL
N.D

ii) ETP sludge



PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Impact on conservation of natural resources Impact of cost of production

1. Water Pollution

We are operating our Zero Liquid Discharge Plant efficiently and no treated water is discharged by our unit. The total Treated water is being recycled to Cooling Tower/In process.

An amount of Rs 154.34 Lacs is spent annually in Effluent Treatment Plant & Zero Liquid Discharge Plant.

2. Hazardous Waste:

Hazardous waste get completely dried in waste impervious pan by solar evaporation.

Constituents present in hazardous was sent to M/s Bharuch Enviro Infrastructure Ltd, Ankleshwar & Dahej for incineration & Landfill, treatment and disposal. An amount of 33.15 Lac was spent annually.

3. Air Pollution:

The toxic gases are completely burnt in Incinerator resulting into generation of inert gases, i.e. CO₂/N₂ and simultaneously generation of steam which is effectively used in plants. Therefore, there is no Impact of conservation of Natural resources.

Approx. 33091 MT/year steam was generated in Incinerator, otherwise to generate 33091 MT steam we would have burnt 2758 K.L. of furnace oil.

PART – H

Additional measure/investment proposal for environmental protection including abatement of pollution prevention of pollution.

1. We are fully equipped to handle hazardous waste, liquid effluents, air pollutants and detoxicate the same confirming to the norms specified by Pollution Control Board.
2. We are having Online Stack monitoring Gas Analyser and Records are being maintained.
3. We are having Online TOC Meter. Records are being maintained.
4. All the Treated water is being recycled in Cooling Tower and in Process.
5. We are having online Ambient Air Monitoring Station and Records are being maintained.



PART - I

Any other particulars for improving the quality of the environment.

About 4000 additional trees were planted within our battery limit during monsoon season.

RP Sharma

(Signature of a person carrying
out an industry, operation or process)

Date : 21/04/2021

Name : Mr. R P Sharma
Designation: Assistant Vice President(Plant)
Address : M/s. Hindusthan Chemicals
Company
GIDC Industrial Estate, P.O - Olpad,
Tal.: Olpad, Dist.: Surat- 394540.



Zero Liquid Discharge Scheme With Waste Minimization

TREATMENT OF EFFLUENT STREAMS AT EXISTING AND PROPOSED ZLD
SCENARIO

Existing treatment scheme:

The total process effluent generated from the plant is segregated into two streams as under.

1. Low TDS and low COD process effluent

Over head Condensate generated from NaCN, SFCN & Ammonium Sulfate, contains High Ammonical Nitrogen & Cyanide collected in V511. This effluent passed through Cation based Ammonical Nitrogen Removal Unit, resulting in reduction of Ammonical Nitrogen less than 50 ppm, and gets mixed with Lean water from HCN plant, containing high cyanides.

Removal of high cyanide is being done through air stripping, (equipped with caustic scrubber where CN gets convert to NaCN slurry, this slurry is transferred to NaCN plant to recover NaCN. The bottom effluent from air stripper containing CN - < 5 ppm, is finally passes through Anion based cyanide removal Unit. In which CN contain gets minimized less than 0.2 ppm.

Above treated effluent of 114 KLD, along with blow downs of boiler & cooling tower of 128 KLD sent to equalization tank of existing , conventional treatment plant of 300 KLD consisting of primary and secondary units. The treated effluent is then sent to final treated effluent collection unit (guard pond no 1). The treated effluent confirming the GPCB norms sent to Guard Pond No. 2 for final discharge to masma khadi.

2. High TDS and high COD process effluent

Combined effluent of alkaline nature from DPG, SDCN & SFCN is treated with Chlorine to detoxify free Cyanide and convert volatile organic impurities into stable high boiling chloro derivatives.

Mixed effluent of 50 KLD after chlorination is passed through Nutch filter for filtration. The filtrate is fed to multi-stage evaporator of 80 KLD. The overhead condensate is obtained which is having very low TDS & COD. This condensate is being recycled to our existing plants. The contaminated salt approximately 2.5 MT/day recovered after evaporation through centrifuge is isolated & filled in HDPE Bag and sent to approved TSDF site for incineration for final disposal.

Proposed Treatment scheme to achieve ZERO LIQUID DISCHARGE with waste minimization:

To achieve Zero Liquid Discharge, the existing segregated process effluent streams will be treated in following manner.

1. Low TDS and low COD process effluent

Over head Condensate generated from NaCN, SFCN & Ammonium Sulfate, contains High Ammonical Nitrogen & Cyanide collected in V511. This effluent passed through Cation based Ammonical Nitrogen Removal Unit, resulting in reduction of Ammonical Nitrogen less than 50 ppm, and gets mixed with Lean water from HCN plant, containing high cyanides.

Removal of high cyanide is being done through air stripping, (equipped with caustic scrubber where CN gets convert to NaCN slurry, this slurry is transferred to NaCN plant to recover NaCN. The bottom effluent from air stripper containing CN - < 5 ppm, is finally passes through Anion based cyanide removal Unit. In which CN contain gets minimized less than 0.2 ppm.

Above treated effluent of 114 KLD, along with blow downs of boiler & cooling tower of 128 KLD sent to equalization tank of existing conventional treatment plant of 300 KLD consisting of primary and secondary units. The treated effluent is then sent to final treated effluent collection unit (guard pond no 1). The treated effluent confirming the GPCB norms sent to Guard Pond No.2.

The treated effluent from existing ETP, which is being presently discharged in Khadi, will be further treated in tertiary treatment plant which will include Pressure Sand Filter (PSF), Activated Carbon Tower (ACT) and Reverse Osmosis (RO) plant. The permeate from RO plant shall be recycled for reuse in the cooling tower. The reject form RO plant will sent to proposed MEE for further treatment. The over head condensate from MEE will be recycled for reuse in the cooling tower. Approximately 0.75 MT/day evaporated salt recovered after evaporation through centrifuge is isolated & filled in HDPE Bag and sent to approved TSDF site for land filling for final disposal.

2. High TDS and high COD process effluent

The existing mixed effluent of 50 KLD shall be segregated in two streams and shall be treated as under.

A. Spent acid stream containing HCL of 12 KLD.

Another stream of spent Acid from DPG plant containing HCl less than 5 %, will be neutralized & evaporated in an evaporator for removal of TDS as salt & overhead condensate will be recycled in cooling tower. Approximately 0.84 MT/day industrial salt recovered after evaporation through centrifuge is isolated & filled in HDPE Bag and sent to approved TSDF site for land filling for final disposal. We shall explore the possibility of selling as industrial salt to actual users.

B. High TDS & high COD stream with cyanide contamination of 38 KLD.

Mixed effluent of 38 KLD after chlorination is passed through Nutch filter for filtration. The filtrate is fed to multi-stage evaporator of 96 KLD. The overhead condensate is obtained which is having very low TDS & COD. This condensate shall be recycled to existing plants or shall be incinerated in proposed liquid waste incinerator of 100 KLD capacity. The contaminated salt approximately 1.5 MT/day recovered after evaporation through centrifuge shall be isolated & filled in HDPE Bag sent to approved TSDF site for incineration for final disposal. The ash from the incinerator of approximately 0.025 MT/day shall be isolated & filled in HDPE Bag sent to approved TSDF site for land filling for final disposal.

HCC Having two number of Membership of Approved TSDF Site.

1. M/s. NECL, Vadodara 2.M/s. BEIL , Ankleshwar

Annexure-6

Membership Certificate of BEIL, Ankleshwar, Dahej & NECL, Baroda



NANDESARI ENVIRONMENT CONTROL LTD.

SURVEY NO. 519/P, G.I.D.C. ESTATE, NANDESARI-391 340, DIST. VAPODARA
PHONE : (0265) 2840 818 FAX : (0265) 2841017 E-mail : necl_tsl@yahoo.co.in

Annexure - 51

TO WHOMSOEVER IT MAY CONCERN

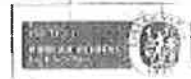
THIS IS TO CERTIFY THAT M/S. HINDUSTHAN CHEMICALS COMPANY, GIDC INDUSTRIAL ESTATE, P.O.-OLPAD-39A 540, DIST: SURAT IS OUR VALID MEMBER (MEMBERSHIP NO.206) OF COMMON HAZARDOUS WASTE INCINERATION FACILITY DEVELOPED BY NECL AT 519/P GIDC, NANDESARI, DIST. VAPODARA

FOR & ON BEHALF OF:
NANDESARI ENVIRONMENT CONTROL LTD.

P. Patel
HARBHAI C. PATEL
CHAIRMAN

16.08.2010
NANDESARI

Common Solid Waste Disposal and Incineration Facility





BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)

20th November, 2019

To,
HINDUSTHAN CHEMICALS COMPANY
GIDC INDUSTRIAL ESTATE,
POST.OLPAD-394540,
TA: OLPAD, DIST: SURAT,
SURAT.

Sub : Membership Certificate for Common Incineration Facility.

Dear Sir,

You are a member of our Common Incinerator Facility and your membership No. is **CI/OBD/085**. We hereby certify that you have increased your booked quantity **10 MT / Year** to **866 MT / Year**.

As per norms we can only accept your hazardous incineration waste when you provide proper authorization of GPCB CCA with desired quantity also kindly ensure, The cyanide limit is under GPCB limit.

Thanking you,

Yours faithfully,

For, BEIL INFRASTRUCTURE LIMITED
(Formerly Known as Bharuch Enviro Infrastructure Ltd)


AUTHORISED SIGNATORY



BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)

Ref. BEIL/ANK/2019

20TH November, 2019

To,
HINDUSTHAN CHEMICALS COMPANY
GIDC INDUSTRIAL ESTATE,
POST.OLPAD-394540,
TA: OLPAD, DIST: SURAT,
SURAT.

Sub: Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member for **10 years up to 19/11/2029** for the common Solid/Hazardous waste disposal facility of BEIL INFRASTRUCTURE LIMITED (Formerly Known as Bharuch Enviro Infrastructure Limited), at GIDC, Dahej. You have booked solid waste quantity of **511 MT/Years**. Your Membership No. is **Oth/750**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,

For BEIL Infrastructure Limited.

(Formerly Known as Bharuch Enviro Infrastructure Limited.)

AUTHORISED SIGNATORY

Annexure-7

Category wise Solid Waste Generation & Disposal form December. 2020 to May, 2021

Sr No	Category	Dec. 2020		Jan. 2021		Feb. 2021		Mar. 2021		Apr. 2021		May. 2021		Closing	
		Generation Kg	Disposal Kg	Generation Kg	Disposal Kg	Generation Kg	Disposal Kg	Generation Kg	Disposal Kg	Generation Kg	Disposal Kg	Generation Kg	Disposal Kg	Generation Kg	Disposal Kg
1	Residue of ZLD	14750	14480	33500	36170	34000	33750	53650	53960	32500	32490	2000	0	2127	
2	Activated Carbon	0	0	0	0	0	2564	0	0	0	0	0	0	0	0
3	Ferric Hydroxide	0	0	0	0	0	1502	0	0	2000	0	0	0	2000	0
4	Residue of ETP(MEE)	0	0	0	0	0	2000	0	0	4000	0	0	0	4000	0
5	Iron Sludge	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	ETP Sludge	0	0	0	0	15	714	0	0	0	0	4000	0	4000	4000
7	Contaminated Polythene Liner	0	0	0	0	0	0	0	0	0	0	0	0	0	25
8	Drums	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Resin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	14750	14480	33500	36170	34015	40530	53650	53960	38500	32490	6000	6000	6152	

CCA Copy and CC&A Amendment copy**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 P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous And Other Waste (Management and Transboundary) Rules, 2016 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application letter no. **136233** dated **22-04-2018** for the **Consolidated Consent and Authorization (C.C. & A)** of this Board under the provisions /rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

To,

M/s. Hindusthan Chemicals Company

GIDC IND. Estate,

Post:- Olpad-394540.

Tal:- Olpad, Dist:- Surat.

- Consent Order No. **AWH-94173** Date of issue: **04-07-2018**.
- The consents shall be **valid upto 14-07-2023** for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant for manufacturing of the following items/ products

Sr. No.	Product	Quantity
1	Hydrogen Cyanide	5100 MT/Annum
2	Sodium Cyanide	6372 MT/Annum
3	Potassium Cyanide	2000 MT/Annum
4	Sodium ferro Cyanide	1000 MT/Annum
5	Potassium ferro Cyanide	1000 MT/Annum
6	Diphenyl Guanidine	1260 MT/Annum
7	Sodium dicyanide	300 MT/Annum
8	Mandelonitrile	2500 MT/Annum
9	Heat treatment salt	720 MT/Annum
10	Cyano hydrines	5000 MT/Annum
11	Nitrites	3000 MT/Annum
12	Cyanide based products	3500 MT/Annum

Subject to specific conditions:

- Unit shall maintain zero discharge of wastewater. The evaporator shall be adequate to maintain zero liquid discharge.
- Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
- As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel'.

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

4. Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water.
5. Industry shall provide dedicated storage facility for fly ash.
6. Industry shall comply with fly ash notification 1999 as amended from time to time.
7. Industry shall achieve Zero liquid discharge through recycling/reuse evaporation.
8. Unit shall strictly follow conditions mentioned EC issued by MOEF on date: 05/10/2010 & CTE order issued by GPCB vide letter no: GPCB/CTE/SRT-50(6)/88114.
9. Cyanide stream & High TDS stream shall be segregated at source & Cyanide stream shall be given cyanide removal treatment & High TDS Stream shall be evaporated in Multi Effect Evaporator.
10. Unit shall follow & implement applicable recommendation of cleaner production in Chemical industry, which is enclosed herewith this order.

3. CONDITIONS UNDER THE WATER ACT:

- 3.1. Source of water: - borewell & Local Body.
- 3.2. The quantity of the fresh water consumption for industrial purpose shall not exceed 643 KL/Day.
- 3.3. The quantity of the fresh water consumption for domestic purpose shall not exceed 8 KL/Day.
- 3.4. The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 258 KL/Day.
- 3.5. Unit shall segregate two Streams & source.
 - Stream I: Low COD Stream from utilities shall be treated in conventional ETP followed by RO & Multiple Effect Evaporator (MEE) to maintain the Zero liquid discharge at all time. RO reject shall not be used for any purpose.
 - Stream II: High COD Stream from DPG & SFCN Plant, after treatment for removal of cyanide & Ammonia shall be mixed with Stream I & sent to MEE for maintaining Zero Liquid Discharge & RO Permeate (211.3 KLD) shall re-used for cooling water makeup. There shall be no discharge of industrial effluent
- 3.6. Industry shall provide fixed pipeline with flow meter for collection of segregated stream, reuse of RO Permeate and inlet to MEE and maintain its records.
- 3.7. The quantity of domestic waste water shall not exceed 15 KL/Day.
- 3.8. Sewage after conforming to the following standards shall be used for gardening & plantation within premises only:

PARAMETERS	GPCB NORMS
PH	6.5 TO 9.0
BOD	30 mg/l
TSS	Less than 100 mg/l
Fecal Coliform (MPN-100 ml. MNP-100 ml)	Less than 1000

- 3.9. Industry shall also provide fixed pipeline network for even distribution of treated Sewage on land for plantation within premises.
- 3.10. The applicam shall provide storage tank of adequate capacity to store treated sewage during rainy season for at latest 7 days.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1. The following shall be used as a fuel in Steam Boiler, incinerator, Salt incinerator, CPP and D.G.Set respectively.

Sr. No.	Utilities	Fuel	Quantity
1	Steam Boiler- 2nos (3.5 MT, each)	Natural gas or FO or LDO	14,000 M ³ /day or 10 lit/hr or 10 lit/hr

2	D.G.Set-1 nos 2250 KVA	Diesel	200 lit/hr
---	---------------------------	--------	------------

4.2. The applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.

4.3. The flue gas emission through stack attached to Steam Boiler, Solid waste incinerator, Salt incinerator, CPP and D.G.Set shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control System	Parameters	Permissible Limit
1	Steam Boiler-2nos (3.5 MT, each)	30 (Common Stack)	Cyclone Separator	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
2	D.G.Set-1 nos 2250 KVA Stand by	11	---	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm

4.4. The process emission through various stacks/vent of reactor, process, vessel shall conform to the following standards:

Stack No.	Process vessel to which the stack/vent is attached	Stack height in Meter	Air Pollution Control System	Parameters	Permissible Limit
1	Tail gas incinerator	40	---	HCN HCl	30 mg/NM ³ 20 mg/NM ³
2	Scrubber H.T.Plant	19	Water scrubber & Bag Filter	PM HCN	150 mg/NM ³ 30 mg/NM ³
3	Ammonium Sulphate recovery	20	Ammonia absorption column	NH ₃	175 mg/NM ³

4.5. Industry shall take adequate measure to control dusting due to storage, transportation & handling of Coal/Lignite & fly ash.

4.6. Industry shall comply with Coal handling guideline of the Board.

4.7. Industry shall comply with fly ash notification 1999 as amended from time to time.

4.8. The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10meters from the source) other than the stack/vent) shall not exceed the following levels.

PARAMETERS	PERMISSIBLE LIMIT
PM 10	100 Microgram/M3
PM 2.5	60 Microgram/M3
SO ₂	80 Microgram/M3
NO _x	80 Microgram/M3

4.9. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.

4.10. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

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5. D.G. SETS CONDITIONS

The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of L.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:-

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

- a) The minimum height of stack to be provided with each of the generator set shall be $H=h + 0.2(KVA)^{1/2}$, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- b) Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- c) The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- d) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- e) All efforts shall be made to bring down the noise level due to the D.G Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- f) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.
- g) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacturer which would help prevent noise levels of the DG Set from deteriorating with use.

5. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

5.1 Authorization order No:- AWH-94173 date of Issue: 04-07-2018.

5.2 M/s. Hindusthan Chemicals Company, is hereby granted an authorization to operate facility of below for following hazardous wastes on the premises situated at GIDC IND. Estate, Post- Olpad-394540, Tal:- Olpad, Dist:- Surat.

Sr. No	Waste	Quantity MT/Year	Schedule-I/ Category	Facility
1	E.P Sludge	14 MT/Year	35.3	Collection, Storage, Transportation and disposal incineration at CHWI facility of NECL, Nandesari.
2	Used or Spent Oil	1200 Lit/year	5.1	Collection, storage, transportation and disposal by selling to Registered re-refiners.
3	Empty barrels/containers/ liners contaminated with hazardous chemicals/ wastes	400 Nos./year	33.1	Collection, storage transportation and disposal to authorized decontaminator.
4	Activated Carbon	170 Kg/Day	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWI facility of NECL, Nandesari.

(Handwritten signature)

5	Ferric Hydroxide	40 Kg/Day	A-10 Sch-II	
6	Iron Sludge	8 MT/year	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWT facility of NECL, Nandesari.
7	Spent Catalyst	What so ever Generated	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWT facility of NECL, Nandesari.
8	Residues from ETP (MEF) (In place of DPG)	330 MT/year	17.1	Collection, Storage, Transportation and disposal incineration at CHWT facility of NECL, Nandesari.
9	SFCN (Contaminated Salt)	700 Kg/Day	A-10 Sch-II	Collection, Storage, Transportation and disposal by land fill at CHWT facility of NECL, Nandesari.
10	SXCN (Contaminated Salt)	500 Kg/day	A-10 Sch-II	Collection, Storage, Transportation and disposal by land fill at CHWT facility of NECL, Nandesari.
11	Residues from ZLD	1400 Kg/Day	A-10 Sch-II	TSDF Landfill waste
12	Ammonium Sulphate	2649 MT/A		Collection, storage Transportation and disposal by selling to industry to authorized.

5.3 The authorization shall be valid up to 14-07-2023.

5.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

5.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.6.2 to the industry having valid CCA of this Board.

6. TERMS AND CONDITIONS OF AUTHORISATION

1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

10. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous Waste and Other Waste Rules, 2016.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.
16. In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.
18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.

7. SPECIFIC CONDITIONS:-

- 7.1. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.
- 7.2. Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.
- 7.3. In case of renewal of authorization, a self-certified compliance report in respect of effluent emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
- 7.4. The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.
- 7.5. Unit shall comply provisions of E-Waste Management Rules-2016.
- 7.6. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.
- 7.7. The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding ninety days. Prior permission of the Board shall be obtained for extension of the storage period.
- 7.8. The occupier shall maintain the records of generation, sale, storage, transport, recycling, re-processing and disposal of hazardous waste and make available during the inspection.

7.9. The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

8. GENERAL CONDITIONS: -

- 8.1. Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 8.2. Applicant shall also comply with the general conditions given in annexure I.
- 8.3. Whenever due to accident or other unforeseen act or event, such emissions occur or is apprehended to occur in excess of standards laid down such information shall be forthwith reported to Board, concerned Police Station, Office of Directorate of Health Service, Department of Explosives, Inspectorate of Factories and local body.
- 8.4. In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.
- 8.5. The Environmental Management Unit/Cell shall be setup to ensure implementation and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
- 8.6. The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.

For and on behalf of
Gujarat Pollution Control Board

(Smt U.K. Upadhyay)

Environmental Engineer

Date:-

NO: GPCB/CCA-SRT-50(13)/11_20643/

Issued to:

M/s. Hindusthan Chemicals Company

GIDC IND. Estate,

Post:- Olpad-394540.

Tal:- Olpad, Dist:- Surat.

Outward No: 469311/2019/12



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

CCA-Amendment (No. H-110283)

NO: GPCB/CCA-SRT-50(18)/ID-20643/

Date:

TO,

M/s. Hindusthan Chemicals Company

GIDC IND. Estate,

P.O.- Olpad-394540,

Tal: Olpad, Dist: Surat.

SUB: Amendment in the consolidated consent & Authorization of the Board.

REF: 1) CCA order No: - AWH-84173, Dated-04/07/2018 under various Environmental Acts/Rules.

2) Your CCA Amendment Application Inward ID No.175354 dated 24-04-2020.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous And Other Waste (Management and Transboundary) Rules, 2016 & framed under the Environment (Protection) Act-1986. The Board has granted CCA vide order No. AWH-94173 issued vide this office letter no: GPCB/CCA-SRT-50(18)/ID-20643/469341 dated 21/09/2018, valid up to 14/07/2023.

The Board has right to review and amend the conditions of the said CCA order.
The said CCA order is further amended as below.

1. This order shall be read as CCA-Amendment Order No. H-110283 date of issued 10-11-2020 valid up to 14-07-2023.

Subject to specific condition:

1. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
2. As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel'.
3. Industry shall obtain NOC from CGWA as per order of Hon. National Green Tribunal for the withdrawal of ground water.
4. Industry shall provide dedicated storage facility for fly ash.
5. Industry shall comply with fly ash notification 1999 as amended from time to time.

M/s. Hindusthan Chemicals Company(ID-20643)

Page 1 of 4

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3. Condition No. 6 & 7 of the said CCA order is amended as below.

6. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

6.1 Authorization order No:- H-1102B3 date of issue: 10-11-2020.

6.2 M/s. Hindusthan Chemicals Company is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at GIDC IND. Estate, P.O.- Olpad-394540, Tal: Olpad, Dist: Surat.

Sr. No	Waste	Quantity MT/Year	Schedule-I/ Category	Facility
1	ETP Sludge	14 MT/Year	35.3	Collection, Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.
2	Used or Spent Oil	1200 Lit/year	5.1	Collection, storage, transportation and disposal by selling to Registered re-refiners
3	Empty barrels/containers/liners contaminated with hazardous chemicals wastes	400 Nos./year	33.1	Collection storage transportation and disposal to authorized decontaminator
4	Activated Carbon	170 Kg/Day	A-10 Sch-II	Collection Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar
5	Ferric Hydroxide	40 Kg/Day	A-10 Sch-II	
6	Iron Sludge	8 MT/year	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.
7	Spent Catalyst	What so ever Generated	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.
8	Residues from ETP (MEE) (In place of DPG)	330 MT/year	17.1	Collection Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.
9	SFCN (Contaminated Salt)	700 Kg/Day	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.
10	SIXN (Contaminated Salt)	500 Kg/day	A-10 Sch-II	
11	Residues from ZLD	1400 Kg/Day	A-10 Sch-II	Collection, Storage, Transportation and disposal incineration at CHWIF facility of BEIL Ankleshwar.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

12	"HOT & COLD" used insulation material and "NON RECYCLE POLYTHENE"	What so ever generated	----	Collection, Storage, Transportation and disposal at TSDF facility of BEIL Dahej.
13	Used membranes	What so ever generated	----	Collection, Storage, Transportation and disposal at TSDF site of BEIL Dahej or approved recycler.

6.2 The authorization shall be valid up to **14-07-2023**.

6.3 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

6.4 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.6.2 to the industry having valid CCA of this Board.

7. **TERMS AND CONDITIONS OF AUTHORISATION**

7.1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.

7.2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.

7.3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.

7.4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.

7.5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

7.6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"

7.7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.

7.8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous and Other Waste Rules, 2016.

7.9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.

7.10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

7.11. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.

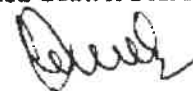
M/s. Hindusthan Chemicals Company(ID-20643)

Page 3 of 4

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

- 7.12. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 7.13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
- 7.15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.
- 7.16. In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
- 7.17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.
- 7.18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 7.19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
- 7.20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
- 7.21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
- 7.22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.
4. The rest of the conditions of the above referred CCA order shall remain unchanged. You are directed to comply with these conditions.

For and on behalf of
Gujarat Pollution Control Board



(G.H. Trivedi)
Deputy Chief Environmental Engineer

License for Ammonia Storage

FORM 15 Annexure-9
 (See Rules 50, 51, 54 and 55) (शुद्धांक: 50, 51, 54 और 55 के लिए)
 Licence to Store Compressed gas in pressure vessel or vessels
 दाब पात्र या पात्रों में संग्रहित गैस के अणुशक्ति के लिए अनुमति

अनुमति संख्या: SH/O/G/03/56(S1147)

License is hereby granted to M/s Hindusthan Chemicals Company Prop. M/s Hindusthan Engg & Ind. Ltd., Plot No(s) 26 to 28, 29C, 30, 32 to 36, 37p, 53p, 55 to 57, 122, GIDC Industrial Estate, Asnabad, Taluka: Ojha, District: SURAT, State: Gujarat, PIN: 384540, valid only for the storage of compressed gas in 1 Number(s) of pressure vessels as indicated below in the licensed premises described below and shown in the plan No SH/O/G/03/56(S1147) dated 22/09/2020 subject to the provisions of the Indian Explosives Act, 1884 (1 of 1884) and the rules made thereunder and to the further conditions of this licence.
 M/s Hindusthan Chemicals Company, Prop. M/s Hindusthan Engg. & Ind. Ltd., Plot No(s) 26 to 28, 29C, 30, 32 to 36, 37p, 53p, 55 to 57, 122, GIDC Industrial Estate, Asnabad, Taluka: Ojha, District: SURAT, State: Gujarat, PIN: 384540 का प्रोप. एंटी. अनुमति संख्या SH/O/G/03/56(S1147) dated 22/09/2020 में संश्लिष्ट गैस के अणुशक्ति के लिए अनुमति 1 नंबर के दाब पात्र या पात्रों में संग्रहित गैस के अणुशक्ति के लिए अनुमति के लिए अनुमति है।

Valid till 30th September 2025 (अनुमति 30 से 30th September 2025 तक)

Vessel No. (पात्र नं.)	Name of Gas/गैस का नाम	State of Gas/गैस का स्थिति	Water Capacity in cubic meter/दाब पात्र में (घन मी.)	Max. working Pressure (kg/cm ²)/अधिकतम दबाव (किग/से.मी.)	Quantity Granted in kg/Litres/अनुमति की मात्रा (किग/लीटर)
N-1024	AMMONIA	Liquid	220.00	220.00	220.00
Total Water capacity			220.00		

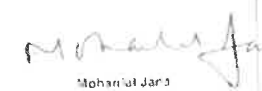
October 20, 1984

शुद्धांक: 03/02/2020

DESCRIPTION AND LOCATION OF THE LICENSED PREMISE (संश्लिष्ट प्रीमिस का विवरण और अवस्थिति)

The licensed premises, the site boundaries and other particulars of which are shown in the attached approval plan No. SH/O/G/03/56 dated 22/09/2020 are situated at Plot No. 26 to 28, 29C, 30, 32 to 36, 37p, 53p, 55 to 57, 122, GIDC Industrial Estate, Asnabad, Taluka: Ojha, District: SURAT, State: Gujarat.
 अनुमति प्राप्त स्थल, साइट की सीमाएं और अन्य विवरण, जो संलग्न अनुमति संख्या SH/O/G/03/56 दिनांक 22/09/2020 में दिखाए गए हैं, वे हैं: Plot No. 26 to 28, 29C, 30, 32 to 36, 37p, 53p, 55 to 57, 122, GIDC Industrial Estate, Asnabad, Taluka: Ojha, District: SURAT, State: Gujarat.

SPACE FOR ENDORSEMENT OF RENEWALS (अनुमति के पुनः प्राप्ति के लिए स्थान)

Date of Renewal/अनुमति के पुनः प्राप्ति की तिथि	Date of Expiry/अनुमति की समाप्ति की तिथि	Signature and stamp of the Competent Authority/अनुमति प्राप्ति के अधिकारी का हस्ताक्षर और मुद्रा
22/09/2020	30/09/2025	 Mohanlal Jari DCF In-charge Chief Controller of Explosives Vadodra कृते उम मुख्या विस्फोटक नियंत्रक वडोदा

This licence is liable to be cancelled if the licensed premises are not found conforming to the description and conditions attached hereto and continuation of any of the rules and regulations under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both. (अनुमति को रद्द किया जा सकता है यदि अनुमति प्राप्त प्रीमिस इसमें उल्लिखित विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और 121 के अंतर्गत दो साल के कारावास या तीन हजार रुपये तक के जुर्माने या दोनों के साथ।)

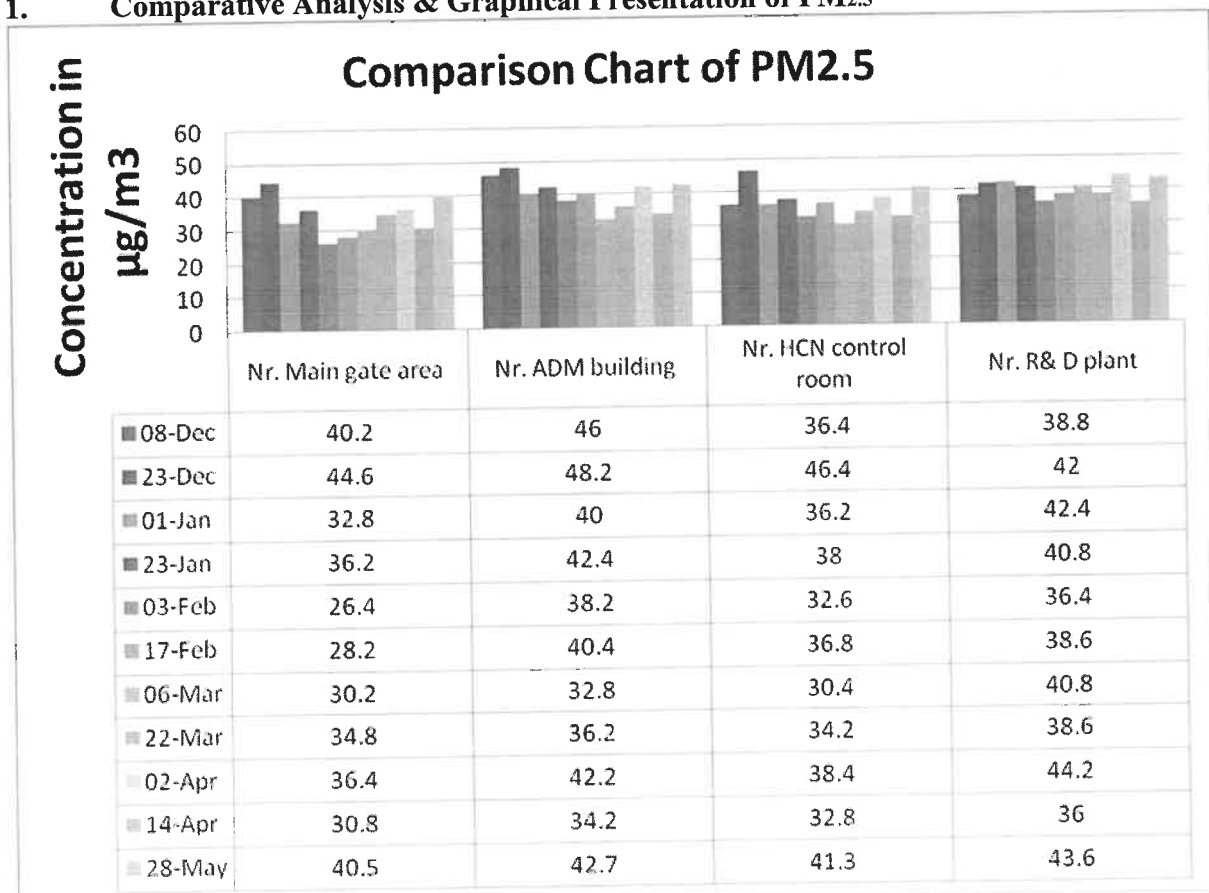
Annexure-10

Ambient Air Sampling & Analysis Method, Analysis Report of Ambient Air and Work Place & Month Wise Comparison of Ambient Air Quality

Sr. No.	Particulars	Method
1	Sampling procedures	Sampling was carried out as per instrument manual & IS 5182 guideline.
2	Analysis methodology	
i	PM10	IS 5182 (Part 23): 2006 Reff. 2017
ii	PM2.5	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
lii	SO2	IS 5182 (Part 2): 2001 Reff. 2017
iv	NOx	IS 5182 (Part 6): 2016 Reff. 2017

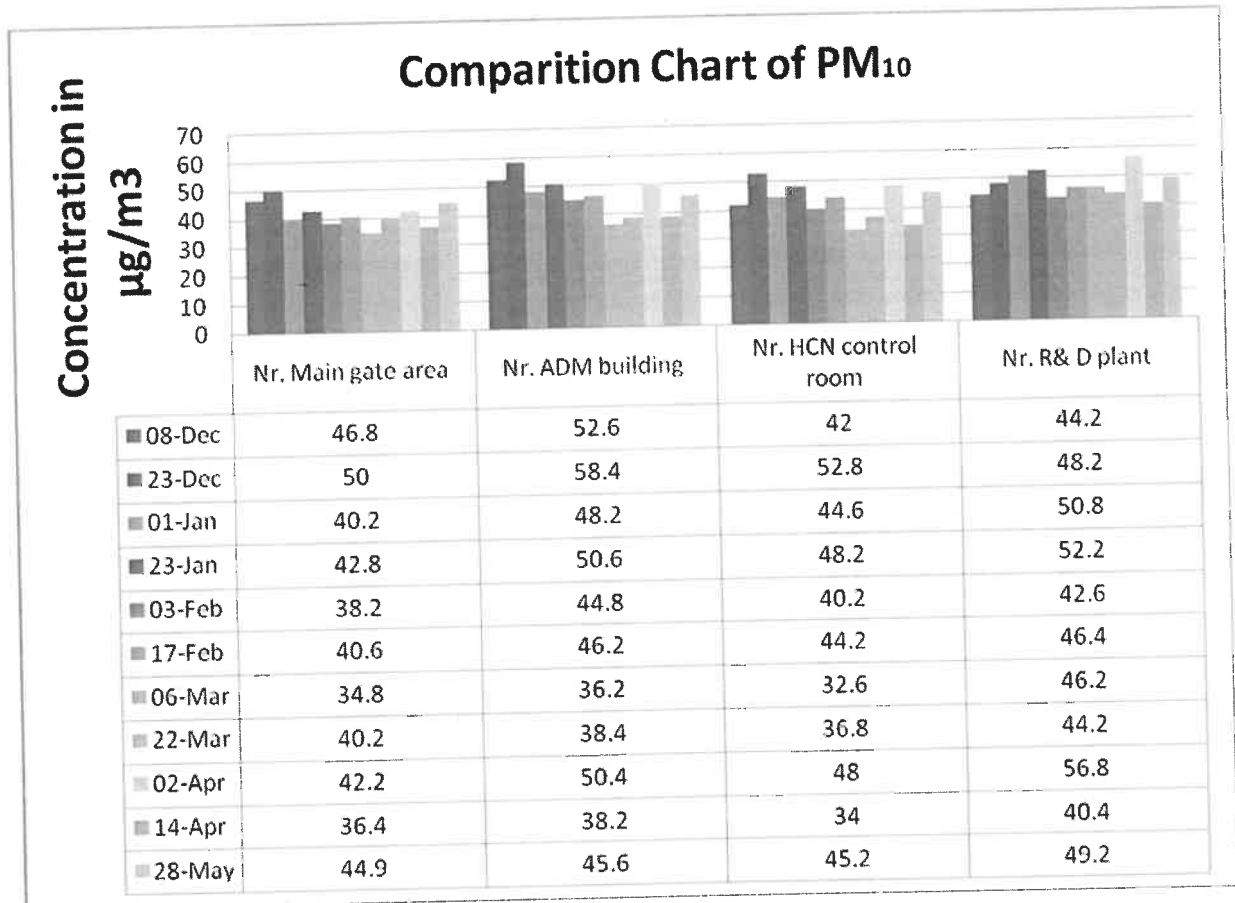
Monthly Variation in Ambient Air Quality for the period of December 2020 to May 2021

1. Comparative Analysis & Graphical Presentation of PM2.5



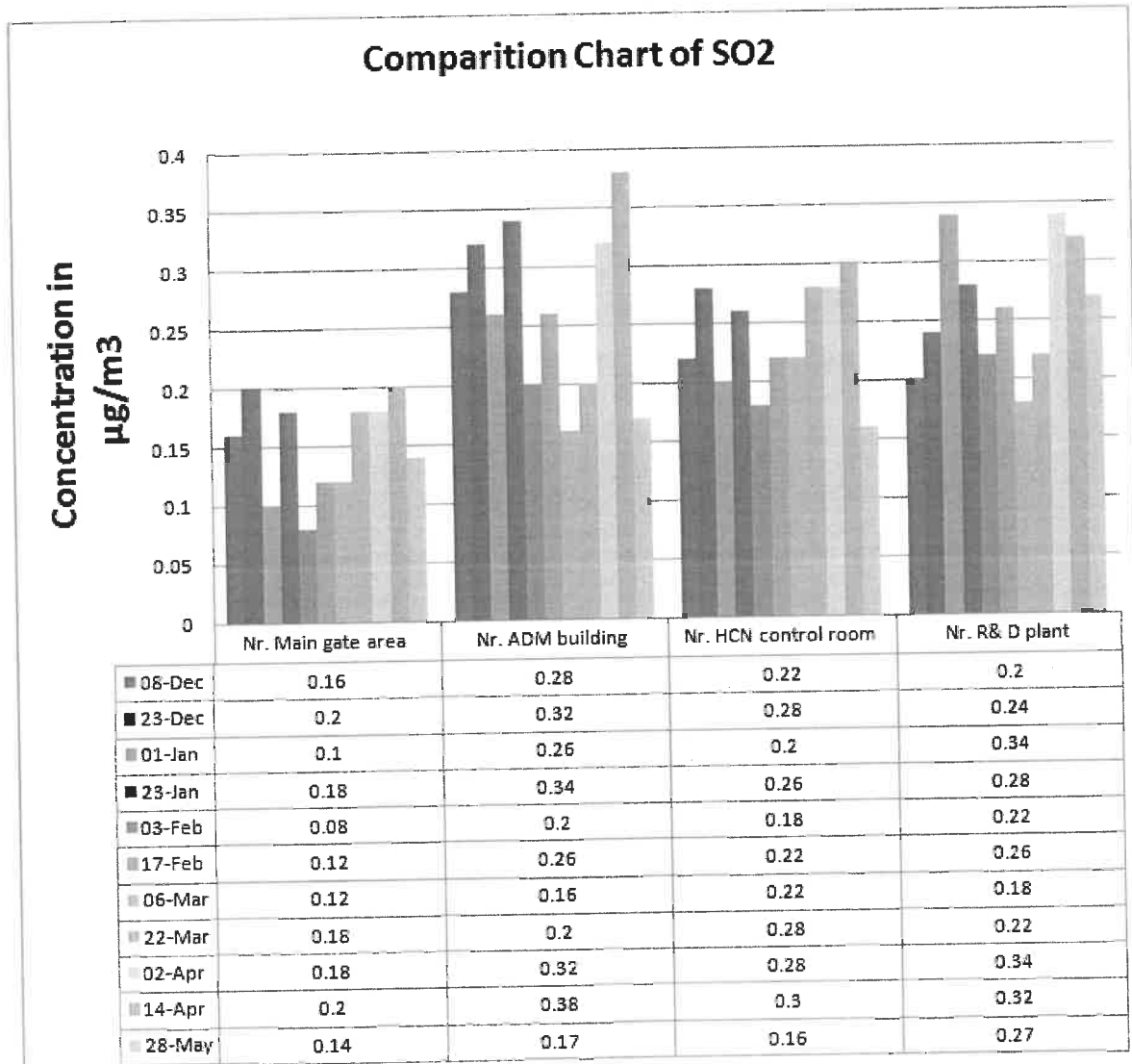
Note: All the values are expressed in µg/m3.

2. Comparative Analysis & Graphical Presentation of PM₁₀



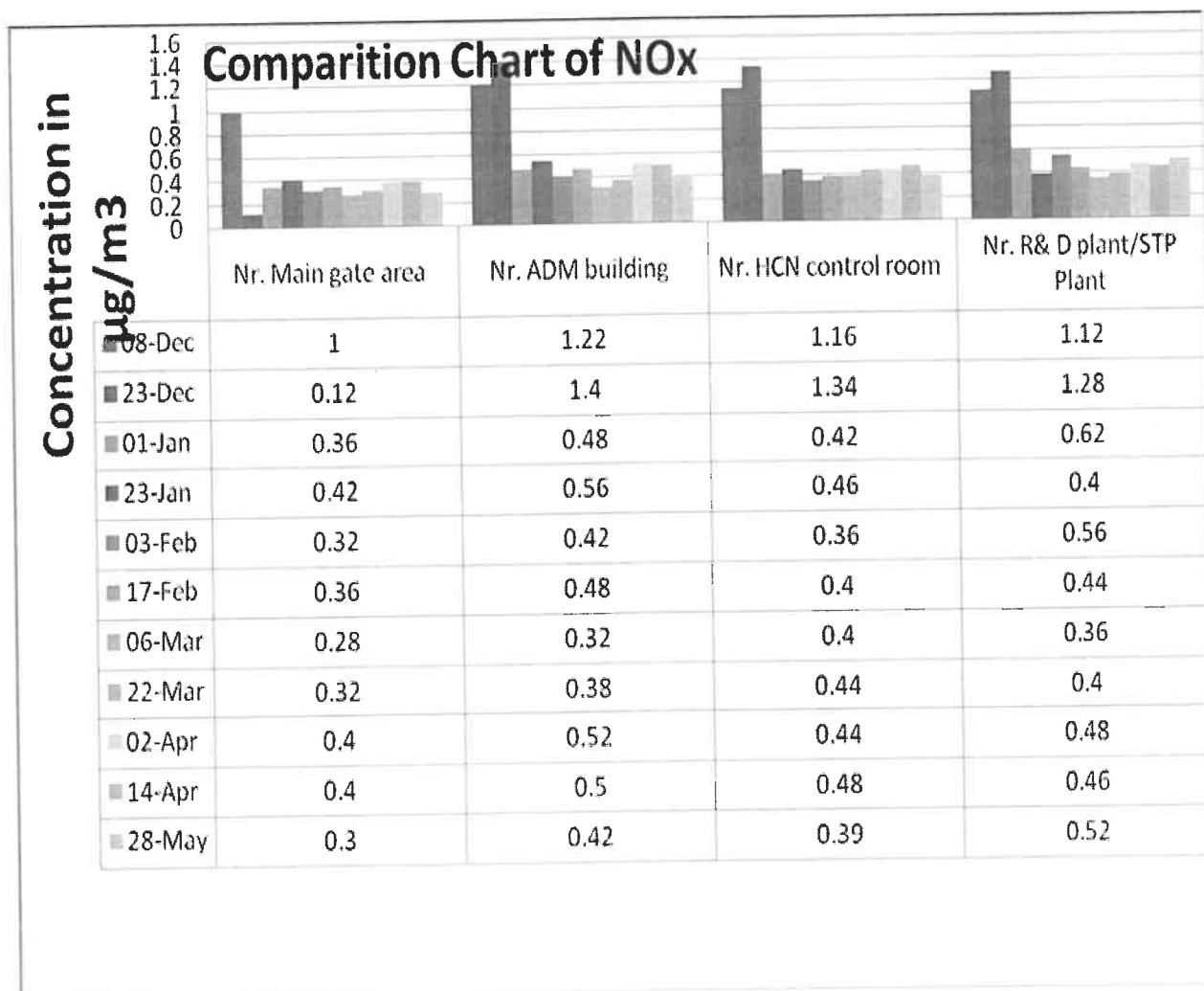
Note: All the values are expressed in µg/m³.

3. Comparative Analysis & Graphical Presentation of SO₂



Note: All the values are expressed in µg/m³.

4. Comparative Analysis & Graphical Presentation of NOx



Note: All the values are expressed in µg/m3.



ISO : 9001 : 2015
 ISO : 14001 : 2015
 OHS : 45001 : 2018

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 E-mail : office@earthcare.org.in / lab@earthcare.org.in / info@earthcare.org.in

TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 505/1
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. Main Gate		LAB ID: 38/12
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE: 08/12/2020		SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE): Twice in a Month		SAMPLE ID NO: EESPL20120802
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE: 09/12/2020		SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE: 09/12/2020		TEST COMPLETION DATE: 12/12/2020

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	46.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.16	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.0	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
 (SURESH MORADIA)

P. Patel
PREPARED BY:
 (TECHNICAL MANAGER)



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ISO :14001 : 2015
OHS : 45001 : 2018

EARTH CARE

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/2
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 39/12	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 08/12/2020	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL20120803	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 09/12/2020	SAMPLE RECEIVED TIME: 10:15 am	
TEST START DATE: 09/12/2020	TEST COMPLETION DATE: 12/12/2020	

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	46.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	52.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.28	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.22	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

J.P. Patil
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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Page 3 of 18

TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/3
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. HCN Control room		LAB ID: 40/12
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE: 08/12/2020		SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE): Twice in a Month		SAMPLE ID NO: EESPL20120804
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVE DATE: 09/12/2020		SAMPLE RECEIVE TIME: 10:15 am
TEST START DATE: 09/12/2020		TEST COMPLETION DATE: 12/12/2020

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	42.0	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.22	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.16	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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 ISO :14001 : 2015
 OHS : 45001 : 2018

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 E-mail : office@earthcare.org.in / iab@earthcare.org.in / info@earthcare.org.in

TEST REPORT / CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/4
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. R & D Plant		LAB ID: 41/12
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE: 08/12/2020		SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE): Twice in a Month		SAMPLE ID NO: EESPL20120805
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE: 09/12/2020		SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE: 09/12/2020		TEST COMPLETION DATE: 12/12/2020

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.12	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Moradia

AUTHORISED SIGNATORY:
 (SURESH MORADIA)

P.P. Patil

PREPARED BY:
 (TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/5
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 76/12	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 23/12/2020	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL20122302	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 24/12/2020	SAMPLE RECEIVED TIME: 10:17 am	
TEST START DATE: 24/12/2020	TEST COMPLETION DATE: 26/12/2020	

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:					
SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	44.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	50.0	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen (NO _x)	80	µg/m ³	0.12	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

[Signature]
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/6
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. ADM Building		LAB ID: 77/12
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE: 23/12/2020		SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE): Twice in a Month		SAMPLE ID NO: EESPL20122303
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE: 24/12/2020		SAMPLE RECEIVED TIME: 10:17 am
TEST START DATE: 24/12/2020		TEST COMPLETION DATE: 26/12/2020

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	48.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	58.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.32	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	4.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
 For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
 (SURESH MORADIA)

PREPARED BY:
 (TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/7
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control Room	LAB ID: 78/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	23/12/2020	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL20122304
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	24/12/2020	SAMPLE RECEIVED TIME: 10:17 am
TEST START DATE:	24/12/2020	TEST COMPLETION DATE: 26/12/2020

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	46.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	52.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.28	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.34	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	4.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/8
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Ambient Nr. R & D plant	LAB ID: 79/12	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 23/12/2020	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL20122305	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 24/12/2020	SAMPLE RECEIVED TIME: 10:17 am	
TEST START DATE: 24/12/2020	TEST COMPLETION DATE: 26/12/2020	

AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	42.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	48.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.24	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	1.28	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
 AUTHORISED SIGNATORY:
 (SURESH MORADIA)

P. P. P.
 PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 51/1
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 1/1	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 01/01/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21010101	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 02/01/2021	SAMPLE RECEIVED TIME: 10:03 am	
TEST START DATE: 02/01/2021	TEST COMPLETION DATE: 08/01/2021	

AMBIENT TEMPRATURE:	MINIMUM: 20 °C	MAXIMUM: 28 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 62 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	32.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	40.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.10	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.36	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/2
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 2/1	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 01/01/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21010102	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 02/01/2021	SAMPLE RECEIVED TIME: 10:03 am	
TEST START DATE: 02/01/2021	TEST COMPLETION DATE: 08/01/2021	

AMBIENT TEMPRATURE:	MINIMUM: 20 °C	MAXIMUM: 28 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 62 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	48.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.26	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.48	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/3
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control room	LAB ID: 3/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	01/01/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21010103
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVE DATE:	02/01/2021	SAMPLE RECEIVE TIME: 10:03 am
TEST START DATE:	02/01/2021	TEST COMPLETION DATE: 08/01/2021

AMBIENT TEMPRATURE:	MINIMUM: 20 °C	MAXIMUM: 28 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 62 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.42	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/4
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 4/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	01/01/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21010104
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	02/01/2021	SAMPLE RECEIVED TIME: 10:03 am
TEST START DATE:	02/01/2021	TEST COMPLETION DATE: 08/01/2021

AMBIENT TEMPRATURE:	MINIMUM: 20 °C	MAXIMUM: 28 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 62 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	42.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	50.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.34	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.62	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/5
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 66/1	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 23/01/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21012302	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 25/01/2021	SAMPLE RECEIVED TIME: 10:07 am	
TEST START DATE: 25/01/2021	TEST COMPLETION DATE: 01/02/2021	

AMBIENT TEMPRATURE:	MINIMUM: 28 °C	MAXIMUM: 30 °C
RELATIVE HUMIDITY:	MINIMUM: 30 %	MAXIMUM: 47 %
WIND DIRECTION:	EAST	WIND SPEED: 11.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	42.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.18	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen (NO _x)	80	µg/m ³	0.42	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

Suresh Moradia
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/6
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 67/1	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 23/01/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21012303	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 25/01/2021	SAMPLE RECEIVED TIME: 10:07 am	
TEST START DATE: 25/01/2021	TEST COMPLETION DATE: 01/02/2021	

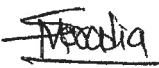
AMBIENT TEMPRATURE:	MINIMUM: 28 °C	MAXIMUM: 30 °C
RELATIVE HUMIDITY:	MINIMUM: 30 %	MAXIMUM: 47 %
WIND DIRECTION:	EAST	WIND SPEED: 11.0 Km/h

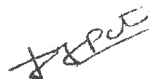
RESULT TABLE:

S.R. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	42.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	50.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.34	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.56	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/7
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control Room	LAB ID: 68/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21012304
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 01/02/2021

AMBIENT TEMPRATURE:	MINIMUM: 28 °C	MAXIMUM: 30 °C
RELATIVE HUMIDITY:	MINIMUM: 30 %	MAXIMUM: 47 %
WIND DIRECTION:	EAST	WIND SPEED: 11.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	48.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.26	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.46	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/8
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 69/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21012305
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 01/02/2021

AMBIENT TEMPRATURE:	MINIMUM: 28 °C	MAXIMUM: 30 °C
RELATIVE HUMIDITY:	MINIMUM: 30 %	MAXIMUM: 47 %
WIND DIRECTION:	EAST	WIND SPEED: 11.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	52.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.28	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE

FORM NO. 37

(Prescribed under Rule 12-B)


Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).

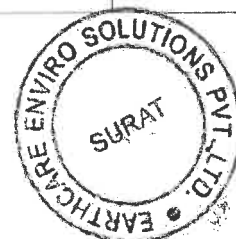
1. **Name of the Department/Plant**
M/s. Hindusthan Chemicals Company
 GIDC Industrial Estate, P.O. Olpad,
 Tal. Olpad, Dist.: Surat-394540

Raw materials, by-products and finished products involving in the process.

2. Raw Materials: **As per attached K-Raw**
 3. By-Products: **Ammonium Sulphate**
 4. Finished Products: **As per attached K-Raw**
 5. Sampling Date: **23/01/2021**
 6. Sample Received Date: **25/01/2021**
 7. Test Start Date: **25/01/2021**
 8. Test Completion Date: **30/01/2021**

Sr. No.	Location/ Operation Mentioned	Identified contaminant	Sampling instrument used	Airborne Contamination		Average	
				Number of samples	Range		
1	2	3	4	5	6	7	
1	NaCN	HCL	Handy Sampler	1	HCL ($\mu\text{g}/\text{m}^3$)	<3.6	--
		HCN	Handy Sampler		HCN ($\mu\text{g}/\text{m}^3$)	<4.0	
		HC	Handy Sampler		HC ($\mu\text{g}/\text{m}^3$)	0.7	
		VOC	Handy Sampler		VOC (ppm)	0.3	
		Moisture	By Hydrometer		Moisture (%)	30.4	
		Ventilation Rate	By Vane Anemometer		Ventilation Rate (m^3/Sec)	3.6	

TWA concentration (As given in second schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
--	EPA Method Chromatographic GC Method GC Method Instrument Method Instrument Method	5	ok		Dhaduk Chirag



FORM NO. 37

(Prescribed under Rule 12-B)


Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).

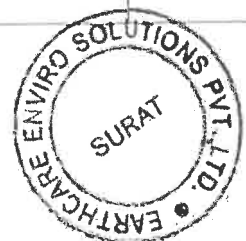
1. **Name of the Department/Plant**
M/s. Hindusthan Chemicals Company
 GIDC Industrial Estate, P.O. Olpad,
 Tal. Olpad, Dist.: Surat-394540

Raw materials, by-products and finished products involving in the process.

2. Raw Materials: **As per attached K-Raw**
3. By-Products: **Ammonium Sulphate**
4. Finished Products: **As per attached K-Raw**
5. Sampling Date: **23/01/2021**
6. Sample Received Date: **25/01/2021**
7. Test Start Date: **25/01/2021**
8. Test Completion Date: **30/01/2021**

Sr. No.	Location/ Operation Mentioned	Identified contaminant	Sampling instrument used	Airborne Contamination		Average	
				Number of samples	Range		
1	2	3	4	5	6	7	
1	DPG	HCL	Handy Sampler	1	HCL ($\mu\text{g}/\text{m}^3$)	<3.6	--
		HCN	Handy Sampler		HCN ($\mu\text{g}/\text{m}^3$)	<4.0	
		HC	Handy Sampler		HC ($\mu\text{g}/\text{m}^3$)	0.4	
		VOC	Handy Sampler		VOC (ppm)	0.1	
		Moisture	By Hydrometer		Moisture (%)	22.8	
		Ventilation Rate	By Vane Anemometer		Ventilation Rate (m^3/Sec)	5.6	

TWA concentration (As given in second schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
--	EPA Method Chromatographic GC Method GC Method Instrument Method Instrument Method	5	ok		Dhaduk Chirag



FORM NO. 37

(Prescribed under Rule 12-B)


Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).

1. **Name of the Department/Plant**
M/s. Hindusthan Chemicals Company
 GIDC Industrial Estate, P.O. Olpad,
 Tal. Olpad, Dist.: Surat-394540

Raw materials, by-products and finished products involving in the process.

2. Raw Materials: **As per attached K-Raw**
 3. By-Products: **Ammonium Sulphate**
 4. Finished Products: **As per attached K-Raw**
 5. Sampling Date: **23/01/2021**
 6. Sample Received Date: **25/01/2021**
 7. Test Start Date: **25/01/2021**
 8. Test Completion Date: **30/01/2021**

Sr. No.	Location/ Operation Mentioned	Identified contaminant	Sampling instrument used	Airborne Contamination		Average	
				Number of samples	Range		
1	2	3	4	5	6	7	
1	MDN	HCL	Handy Sampler	1	HCL ($\mu\text{g}/\text{m}^3$)	<3.6	--
		HCN	Handy Sampler		HCN ($\mu\text{g}/\text{m}^3$)	<4.0	
		HC	Handy Sampler		HC ($\mu\text{g}/\text{m}^3$)	0.6	
		VOC	Handy Sampler		VOC (ppm)	0.2	
		Moisture	By Hydrometer		Moisture (%)	26.2	
		Ventilation Rate	By Vane Anemometer		Ventilation Rate (m^3/Sec)	5.2	

TWA concentration (As given in second schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
--	EPA Method Chromatographic GC Method GC Method Instrument Method Instrument Method	5	ok		Dhaduk Chirag



FORM NO. 37

(Prescribed under Rule 12-B)


Register containing particulars of monitoring of working environment required under Section 7-A (a) (e).

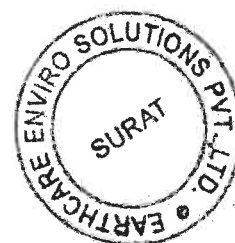
1. **Name of the Department/Plant**
M/s. Hindusthan Chemicals Company
 GIDC Industrial Estate, P.O. Olpad,
 Tal. Olpad, Dist.: Surat-394540

Raw materials, by-products and finished products involving in the process.

2. Raw Materials: **As per attached K-Raw**
 3. By-Products: **Ammonium Sulphate**
 4. Finished Products: **As per attached K-Raw**
5. Sampling Date: **23/01/2021**
 6. Sample Received Date: **25/01/2021**
 7. Test Start Date: **25/01/2021**
 8. Test Completion Date: **30/01/2021**

Sr. No.	Location/ Operation Mentioned	Identified contaminant	Sampling instrument used	Airborne Contamination		Average	
				Number of samples	Range		
1	2	3	4	5	6	7	
1	Behind Canteen	HCL	Handy Sampler	1	HCL ($\mu\text{g}/\text{m}^3$)	<3.6	--
		HCN	Handy Sampler		HCN ($\mu\text{g}/\text{m}^3$)	<4.0	
		HC	Handy Sampler		HC ($\mu\text{g}/\text{m}^3$)	0.2	
		VOC	Handy Sampler		VOC (ppm)	ND	
		Moisture	By Hydrometer		Moisture (%)	34.6	
		Ventilation Rate	By Vane Anemometer		Ventilation Rate (m^3/Sec)	6.2	

TWA concentration (As given in second schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letter)
8	9	10	11	12	13
--	EPA Method Chromatographic GC Method GC Method Instrument Method Instrument Method	5	ok		Dhaduk Chirag





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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 87/1			
		ISSUE DATE: 24/02/2021			
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 13/2				
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM				
SAMPLING DATE: 03/02/2021	SAMPLING TIME: 24 Hour				
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21020302				
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed				
SAMPLE RECEIVED DATE: 04/02/2021	SAMPLE RECEIVED TIME: 10:21 am				
TEST START DATE: 04/02/2021	TEST COMPLETION DATE: 10/02/2021				
AMBIENT TEMPRATURE:	MINIMUM: 26 °C	MAXIMUM: 34 °C			
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 34 %			
WIND DIRECTION:	NW	WIND SPEED: 14.4 Km/h			
RESULT TABLE:					
SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	26.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	38.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.08	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.32	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method
Note: BDL: Below Detection Limit					
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.					
 AUTHORISED SIGNATORY: (SURESH MORADIA)			 PREPARED BY: (TECHNICAL MANAGER)		

END OF TEST REPORT/CERTIFICATE



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E-mail : office@earthcare.org.in / lab@earthcare.org.in / info@earthcare.org.in

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/2
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 14/2	Absorbing Media for each Gas & Filter papers for each PM
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 24 Hour	
SAMPLING DATE: 03/02/2021	SAMPLING TIME: Twice in a Month	
PROTOCOL(PURPOSE): EESPL/SOP/AIR/01	SAMPLE ID NO: EESPL21020303	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 04/02/2021	SAMPLE RECEIVED TIME: 10:21 am	
TEST START DATE: 04/02/2021	TEST COMPLETION DATE: 10/02/2021	

AMBIENT TEMPRATURE:	MINIMUM: 26 °C	MAXIMUM: 34 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 34 %
WIND DIRECTION:	NW	WIND SPEED: 14.4 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.42	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/3
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION: Ambient Nr. HCN Control room	LAB ID: 15/2	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 03/02/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21020304	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVE DATE: 04/02/2021	SAMPLE RECEIVE TIME: 10:21 am	
TEST START DATE: 04/02/2021	TEST COMPLETION DATE: 10/02/2021	

AMBIENT TEMPRATURE:	MINIMUM: 26 °C	MAXIMUM: 34 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 34 %
WIND DIRECTION:	NW	WIND SPEED: 14.4 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	32.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	40.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.18	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.36	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/4
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION: Ambient Nr. STP	LAB ID: 16/2	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 03/02/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21020305	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 04/02/2021	SAMPLE RECEIVED TIME: 10:21 am	
TEST START DATE: 04/02/2021	TEST COMPLETION DATE: 10/02/2021	

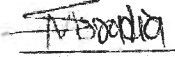
AMBIENT TEMPRATURE:	MINIMUM: 26 °C	MAXIMUM: 34 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 34 %
WIND DIRECTION:	NW	WIND SPEED: 14.4 Km/h


RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	42.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.22	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.56	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/5	
		ISSUE DATE: 24/02/2021	
SAMPLE DESCRIPTION: Ambient Nr. Main Gate		LAB ID: 59/2	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 17/02/2021		SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month		SAMPLE ID NO: EESPL21021702	
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 18/02/2021		SAMPLE RECEIVED TIME: 10:06 am	
TEST START DATE: 18/02/2021		TEST COMPLETION DATE: 24/02/2021	

AMBIENT TEMPRATURE:	MINIMUM: 22 °C	MAXIMUM: 31 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 74 %
WIND DIRECTION:	NW	WIND SPEED: 18.0 Km/h

RESULT TABLE:					
SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	28.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	40.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.12	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen (NO _x)	80	µg/m ³	0.36	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/6
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 60/2	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 17/02/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21021703	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 18/02/2021	SAMPLE RECEIVED TIME: 10:06 am	
TEST START DATE: 18/02/2021	TEST COMPLETION DATE: 24/02/2021	


AMBIENT TEMPRATURE:	MINIMUM: 22 °C	MAXIMUM: 31 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 74 %
WIND DIRECTION:	NW	WIND SPEED: 18.0 Km/h


RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	46.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.26	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.48	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/7
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control Room	LAB ID: 61/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	17/02/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21021704
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	18/02/2021	SAMPLE RECEIVED TIME: 10:06 am
TEST START DATE:	18/02/2021	TEST COMPLETION DATE: 24/02/2021

AMBIENT TEMPRATURE:	MINIMUM: 22 °C	MAXIMUM: 31 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 74 %
WIND DIRECTION:	NW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.22	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/8
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 62/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	17/02/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21021705
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	18/02/2021	SAMPLE RECEIVED TIME: 10:06 am
TEST START DATE:	18/02/2021	TEST COMPLETION DATE: 24/02/2021

AMBIENT TEMPRATURE:	MINIMUM: 22 °C	MAXIMUM: 31 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 74 %
WIND DIRECTION:	NW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	46.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.26	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.44	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


 AUTHORISED SIGNATORY:
 (SURESH MORADIA)


 PREPARED BY:
 (TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 136/1
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Ambient Nr. Main Gate	LAB ID: 10/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21030603
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 15/03/2021

AMBIENT TEMPERATURE:	MINIMUM: 27 °C	MAXIMUM: 36 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 44 %
WIND DIRECTION:	EW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	30.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	34.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.12	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.28	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	0.96	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/2
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Ambient Nr. ADM Building	LAB ID: 11/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21030604
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 15/03/2021

AMBIENT TEMPERATURE:	MINIMUM: 27 °C	MAXIMUM: 36 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 44 %
WIND DIRECTION:	EW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	32.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	36.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.16	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.32	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

J. J. Patil
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/3
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control room	LAB ID: 12/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21030605
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVE DATE:	08/03/2021	SAMPLE RECEIVE TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 15/03/2021

AMBIENT TEMPERATURE:	MINIMUM: 27 °C	MAXIMUM: 36 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 44 %
WIND DIRECTION:	EW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	30.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	32.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.22	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/4
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 13/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21030606
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 15/03/2021

AMBIENT TEMPERATURE:	MINIMUM: 27 °C	MAXIMUM: 36 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 44 %
WIND DIRECTION:	EW	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	46.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.18	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.36	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

J.P. Patel
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/5
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 73/3	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 22/03/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21032202	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 23/03/2021	SAMPLE RECEIVED TIME: 10:34 am	
TEST START DATE: 23/03/2021	TEST COMPLETION DATE: 30/03/2021	

AMBIENT TEMPERATURE:	MINIMUM: 25 °C	MAXIMUM: 37 °C
RELATIVE HUMIDITY:	MINIMUM: 19 %	MAXIMUM: 76 %
WIND DIRECTION:	WEST	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	34.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	40.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.18	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen (NO _x)	80	µg/m ³	0.32	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

D. J. Patil
PREPARED BY:
(TECHNICAL MANAGER)

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NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/6
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 74/3	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 22/03/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21032203	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 23/03/2021	SAMPLE RECEIVED TIME: 10:34 am	
TEST START DATE: 23/03/2021	TEST COMPLETION DATE: 30/03/2021	

AMBIENT TEMPERATURE:	MINIMUM: 25 °C	MAXIMUM: 37 °C
RELATIVE HUMIDITY:	MINIMUM: 19 %	MAXIMUM: 76 %
WIND DIRECTION:	WEST	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	38.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.38	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

J.P.P.
PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/7			
		ISSUE DATE: 30/03/2021			
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control Room	LAB ID: 75/3			
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM			
SAMPLING DATE:	22/03/2021	SAMPLING TIME: 24 Hour			
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21032204			
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed			
SAMPLE RECEIVED DATE:	23/03/2021	SAMPLE RECEIVED TIME: 10:34 am			
TEST START DATE:	23/03/2021	TEST COMPLETION DATE: 30/03/2021			
AMBIENT TEMPERATURE:		MINIMUM: 25 °C	MAXIMUM: 37 °C		
RELATIVE HUMIDITY:		MINIMUM: 19 %	MAXIMUM: 76 %		
WIND DIRECTION:		WEST	WIND SPEED: 18.0 Km/h		
RESULT TABLE:					
SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	34.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	36.8	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.28	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.44	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method
Note: BDL: Below Detection Limit For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.					
 AUTHORISED SIGNATORY: (SURESH MORADIA)			 PREPARED BY: (TECHNICAL MANAGER)		

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/8
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 76/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	22/03/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21032205
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	23/03/2021	SAMPLE RECEIVED TIME: 10:34 am
TEST START DATE:	23/03/2021	TEST COMPLETION DATE: 30/03/2021

AMBIENT TEMPERATURE:	MINIMUM: 25 °C	MAXIMUM: 37 °C
RELATIVE HUMIDITY:	MINIMUM: 19 %	MAXIMUM: 76 %
WIND DIRECTION:	WEST	WIND SPEED: 18.0 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.22	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 175/1
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 8/4	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 02/04/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21040203	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 03/04/2021	SAMPLE RECEIVED TIME: 10:07 am	
TEST START DATE: 03/04/2021	TEST COMPLETION DATE: 12/04/2021	

AMBIENT TEMPERATURE:	MINIMUM: 26 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 44 %	MAXIMUM: 78 %
WIND DIRECTION:	SW	WIND SPEED: 21.6 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	42.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.18	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/2
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Ambient Nr. ADM Building	LAB ID: 9/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	02/04/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21040204
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	03/04/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	03/04/2021	TEST COMPLETION DATE: 12/04/2021

AMBIENT TEMPERATURE:	MINIMUM: 26 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 44 %	MAXIMUM: 78 %
WIND DIRECTION:	SW	WIND SPEED: 21.6 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	42.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	50.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.32	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.52	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/3
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION: Ambient Nr. HCN Control room	LAB ID: 10/4	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 02/04/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21040205	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVE DATE: 03/04/2021	SAMPLE RECEIVE TIME: 10:07 am	
TEST START DATE: 03/04/2021	TEST COMPLETION DATE: 12/04/2021	

AMBIENT TEMPERATURE:	MINIMUM: 26 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 44 %	MAXIMUM: 78 %
WIND DIRECTION:	SW	WIND SPEED: 21.6 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	38.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	48.0	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.28	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.44	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

S.P. Ch
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/4
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 11/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	02/04/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21040206
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	03/04/2021	SAMPLE RECEIVED TIME: 10:07 am.
TEST START DATE:	03/04/2021	TEST COMPLETION DATE: 12/04/2021

AMBIENT TEMPERATURE:	MINIMUM: 26 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 44 %	MAXIMUM: 78 %
WIND DIRECTION:	SW	WIND SPEED: 21.6 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	44.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	56.8	IS: 5182 (Part 23): 2006 Ref.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.34	IS: 5182 (Part 2): 2001 Ref.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.48	IS: 5182 (Part 6): 2016 Ref.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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ISO :14001 2015
OH&S :45001 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/5
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION: Ambient Nr. Main Gate	LAB ID: 59/4	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 14/04/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21041402	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 15/04/2021	SAMPLE RECEIVED TIME: 10:19 am	
TEST START DATE: 15/04/2021	TEST COMPLETION DATE: 26/04/2021	

AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	30.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	36.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.20	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen (NO _x)	80	µg/m ³	0.40	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

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OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/6
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION: Ambient Nr. ADM Building	LAB ID: 60/4	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM	
SAMPLING DATE: 14/04/2021	SAMPLING TIME: 24 Hour	
PROTOCOL(PURPOSE): Twice in a Month	SAMPLE ID NO: EESPL21041403	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 15/04/2021	SAMPLE RECEIVED TIME: 10:19 am	
TEST START DATE: 15/04/2021	TEST COMPLETION DATE: 26/04/2021	

AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	34.2	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	38.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.38	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.50	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/7
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control Room	LAB ID: 61/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21041404
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	32.8	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	34.0	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.30	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.48	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/8
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 62/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 24 Hour
PROTOCOL(PURPOSE):	Twice in a Month	SAMPLE ID NO: EESPL21041405
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	36.0	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	40.4	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.32	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.46	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.4	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

S.Pct
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540202		CERTIFICATE NO: 240/1
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Ambient Nr. Main Gate	LAB ID: 113/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 24 Hours
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052806
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021

AMBIENT TEMPERATURE:	MINIMUM: 29 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 56 %	MAXIMUM: 75 %
WIND DIRECTION:	SW	WIND SPEED: 26 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	40.5	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	44.9	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.14	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.30	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	0.95	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

 AUTHORISED SIGNATORY: (SURESH MORADIA)	 PREPARED BY: (TECHNICAL MANAGER)
---	---

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/2			
		ISSUE DATE: 07/06/2021			
SAMPLE DESCRIPTION:	Ambient Nr. ADM Building	LAB ID: 114/5			
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM			
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 24 Hours			
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052807			
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed			
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am			
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021			
AMBIENT TEMPERATURE:		MINIMUM: 29 °C			
RELATIVE HUMIDITY:		MAXIMUM: 33 °C			
WIND DIRECTION:		MINIMUM: 56 %			
		MAXIMUM: 75 %			
WIND SPEED:		SW			
		WIND SPEED: 26 Km/h			
RESULT TABLE:					
SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	42.7	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	45.6	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.17	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.42	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	1.9	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method
Note: BDL: Below Detection Limit					
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.					
AUTHORISED SIGNATORY: (SURESH MORADIA)			PREPARED BY: (TECHNICAL MANAGER)		

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/3
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Ambient Nr. HCN Control room	LAB ID: 115/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 24 Hours
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052808
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVE DATE:	29/05/2021	SAMPLE RECEIVE TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021

AMBIENT TEMPERATURE:	MINIMUM: 29 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 56 %	MAXIMUM: 75 %
WIND DIRECTION:	SW	WIND SPEED: 26 Km/h

RESULT TABLE:

S.R. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	41.3	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	45.2	IS: 5182 (Part 23): 2006 Reff.2017
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.16	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.39	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	2.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

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PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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ISO :14001 2015
OH&S : 45001 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/4
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Ambient Nr. STP	LAB ID: 116/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Filter papers for each PM
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 24 Hours
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052809
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021

AMBIENT TEMPERATURE:	MINIMUM: 29 °C	MAXIMUM: 33 °C
RELATIVE HUMIDITY:	MINIMUM: 56 %	MAXIMUM: 75 %
WIND DIRECTION:	SW	WIND SPEED: 26 Km/h

RESULT TABLE:

SR. NO:	PARAMETER	Permissible Limit	UNIT	RESULT	TEST METHOD
01	PM _{2.5}	60	µg/m ³	43.6	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
02	PM ₁₀	100	µg/m ³	49.2	IS: 5182 (Part 23): 2006 Reff.2017.
03	Sulphur Dioxide(SO ₂)	80	µg/m ³	0.27	IS: 5182 (Part 2): 2001 Reff.2017
04	Oxides of Nitrogen(NO _x)	80	µg/m ³	0.52	IS: 5182 (Part 6): 2016 Reff.2017
05	HCL	-	µg/m ³	BDL	EPA method
06	HCN	-	µg/m ³	BDL	Chromatographic method
07	NH ₃	-	µg/m ³	3.5	CPCB Guideline, Vol-1 NAAQMS/36/2012-13
08	VOC(BTX)	-	ppm	BDL	GC Method

Note: BDL: Below Detection Limit
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

Patel
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

**EARTH CARE ENVIRO
SOLUTIONS PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at
Moradia House, 31-32, Shiv Ashish Industrial
Estate Co. Op. Society-II, South Zone Road,
Udhna Magadalla, Surat, Gujarat
in the field of

TESTING

Certificate Number TC-7843

Issue Date 11/09/2018

Valid Until 10/09/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



89076970100030001911

Anil Relia

Anil Relia
Chief Executive Officer

NABL 400



**National Accreditation Board for Testing
and Calibration Laboratories (NABL)**

Directory of Accredited Testing Laboratories

As on : 30-June-2020

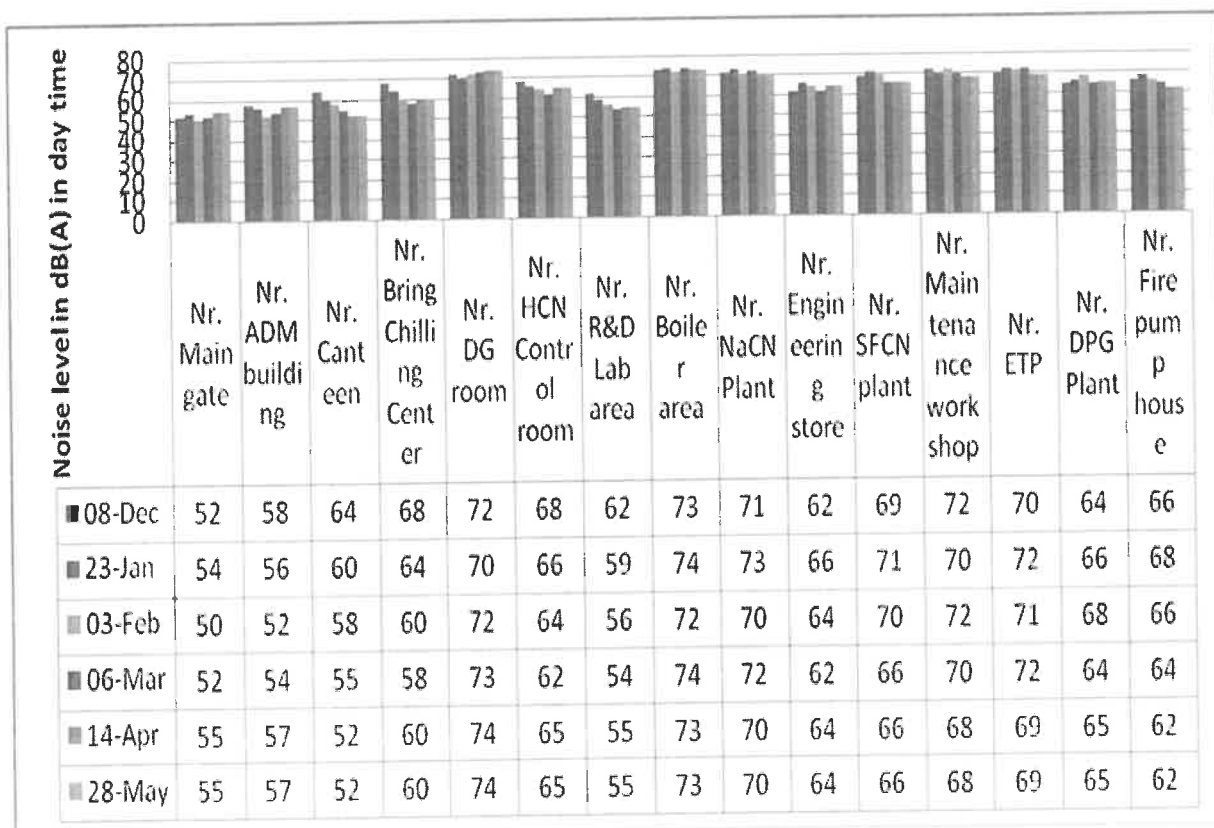
Noise Level Monitoring Methodology, Noise Level Report & Month Wise Comparison

Noise level monitoring:

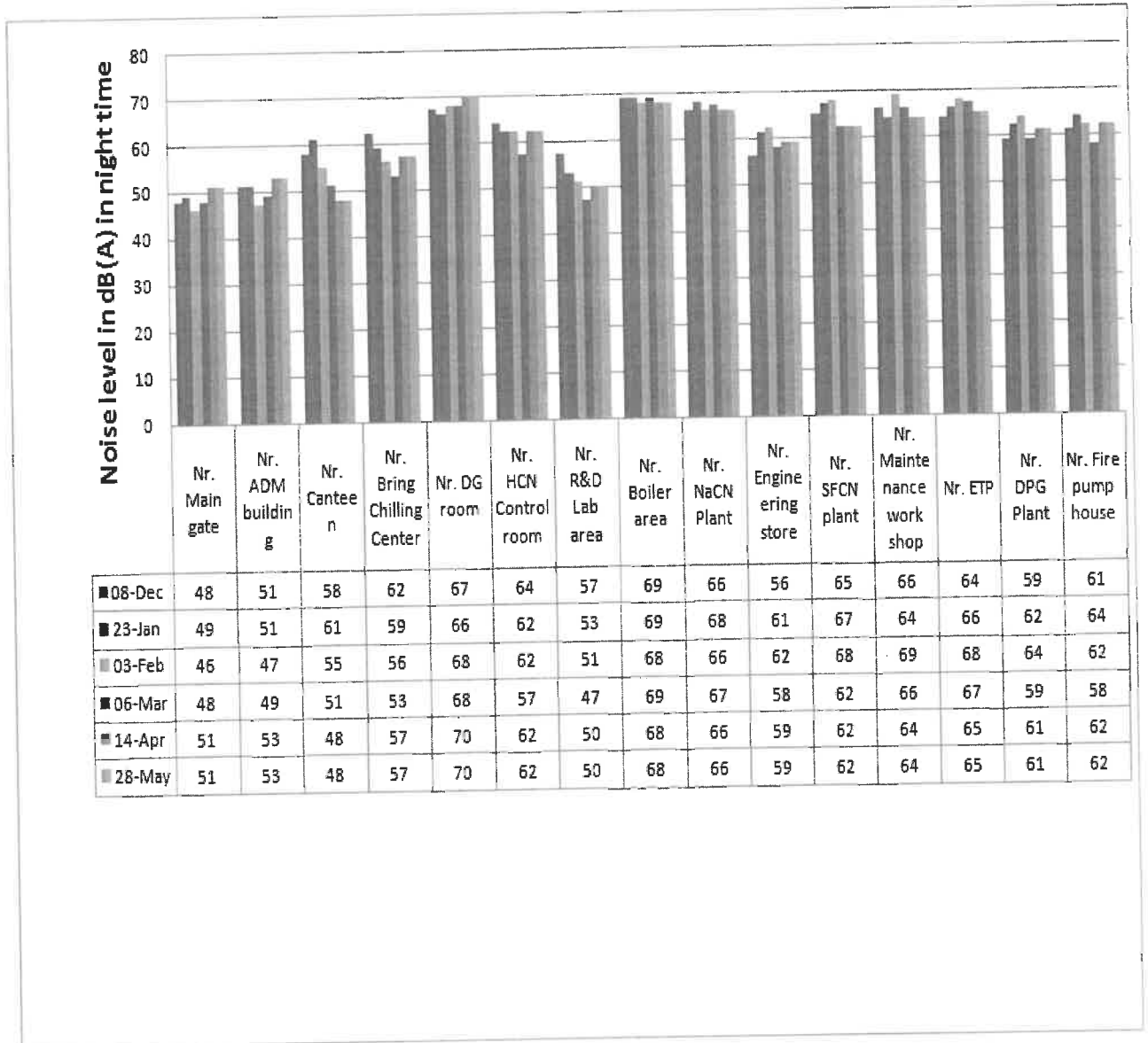
Noise level monitoring was carried out in the vicinity of the source, and nearby area within the factory premises where there is continuous presence of humans. Noise level monitoring was carried out during day time and night time at 15 locations in the premises and total 30 nos. of noise levels were recorded. Sound level meter was used for the noise monitoring.

Monthly Variation in Noise Level for the period of December 2020 to May 2021

1. Comparative Analysis & Graphical Presentation of Noise Level (Day Time)



2. Comparative Analysis & Graphical Presentation of Noise Level (Night Time)





ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/18
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 08/12/2020
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	52	48
02	Nr. ADM Building	dB	75	70	58	51
03	Nr. Canteen	dB	75	70	64	58
04	Nr. Bring Chilling Center	dB	75	70	68	62
05	Nr. DG room	dB	75	70	72	67
06	Nr. HCN Control Room	dB	75	70	68	64
07	Nr. R & D Lab Area	dB	75	70	62	57
08	Nr. Boiler Area	dB	75	70	73	69
09	Nr. NaCN Plant	dB	75	70	71	66
10	Nr. Engineering Store	dB	75	70	62	56
11	Nr. SFCN Plant	dB	75	70	69	65
12	Nr. Maintenance Work Shop	dB	75	70	72	66
13	Nr. ETP	dB	75	70	70	64
14	Nr. DPG Plant	dB	75	70	64	59
15	Nr. Fire Pump House	dB	75	70	66	61

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am
Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/18
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 23/01/2021
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	54	49
02	Nr. ADM Building	dB	75	70	56	51
03	Nr. Canteen	dB	75	70	60	61
04	Nr. Bring Chilling Center	dB	75	70	64	59
05	Nr. DG room	dB	75	70	70	66
06	Nr. HCN Control Room	dB	75	70	66	62
07	Nr. R & D Lab Area	dB	75	70	59	53
08	Nr. Boiler Area	dB	75	70	74	69
09	Nr. NaCN Plant	dB	75	70	73	68
10	Nr. Engineering Store	dB	75	70	66	61
11	Nr. SFCN Plant	dB	75	70	71	67
12	Nr. Maintenance Work Shop	dB	75	70	70	64
13	Nr. ETP	dB	75	70	72	66
14	Nr. DPG Plant	dB	75	70	66	62
15	Nr. Fire Pump House	dB	75	70	68	64

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am
Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/18
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 03/02/2021
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	50	46
02	Nr. ADM Building	dB	75	70	52	47
03	Nr. Canteen	dB	75	70	58	55
04	Nr. Bring Chilling Center	dB	75	70	60	56
05	Nr. DG room	dB	75	70	72	68
06	Nr. HCN Control Room	dB	75	70	64	62
07	Nr. R & D Lab Area	dB	75	70	56	51
08	Nr. Boiler Area	dB	75	70	72	68
09	Nr. NaCN Plant	dB	75	70	70	66
10	Nr. Engineering Store	dB	75	70	64	62
11	Nr. SFCN Plant	dB	75	70	70	68
12	Nr. Maintenance Work Shop	dB	75	70	72	69
13	Nr. ETP	dB	75	70	71	68
14	Nr. DPG Plant	dB	75	70	68	64
15	Nr. Fire Pump House	dB	75	70	66	62

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am
Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
(SURESH MORADIA)

PREPARED BY:
(TECHNICAL MANAGER)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/18
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 06/03/2021
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	52	48
02	Nr. ADM Building	dB	75	70	54	49
03	Nr. Canteen	dB	75	70	55	51
04	Nr. Bring Chilling Center	dB	75	70	58	53
05	Nr. DG room	dB	75	70	73	68
06	Nr. HCN Control Room	dB	75	70	62	57
07	Nr. R & D Lab Area	dB	75	70	54	47
08	Nr. Boiler Area	dB	75	70	74	69
09	Nr. NaCN Plant	dB	75	70	72	67
10	Nr. Engineering Store	dB	75	70	62	58
11	Nr. SFCN Plant	dB	75	70	66	62
12	Nr. Maintenance Work Shop	dB	75	70	70	66
13	Nr. ETP	dB	75	70	72	67
14	Nr. DPG Plant	dB	75	70	64	59
15	Nr. Fire Pump House	dB	75	70	64	58

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am
Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

AUTHORISED SIGNATORY:
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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/18
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 14/04/2021
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	55	51
02	Nr. ADM Building	dB	75	70	57	53
03	Nr. Canteen	dB	75	70	52	48
04	Nr. Bring Chilling Center	dB	75	70	60	57
05	Nr. DG room	dB	75	70	74	70
06	Nr. HCN Control Room	dB	75	70	65	62
07	Nr. R & D Lab Area	dB	75	70	55	50
08	Nr. Boiler Area	dB	75	70	73	68
09	Nr. NaCN Plant	dB	75	70	70	66
10	Nr. Engineering Store	dB	75	70	64	59
11	Nr. SFCN Plant	dB	75	70	66	62
12	Nr. Maintenance Work Shop	dB	75	70	68	64
13	Nr. ETP	dB	75	70	69	65
14	Nr. DPG Plant	dB	75	70	65	61
15	Nr. Fire Pump House	dB	75	70	62	62

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am
Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia

AUTHORISED SIGNATORY:
(SURESH MORADIA)

J.P. Patil

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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Page 14 of 14

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/14
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	AMBIENT NOISE LEVEL	SAMPLING DATE: 28/05/2021
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	PROTOCOL(PURPOSE): Monthly Monitoring

RESULT TABLE:

SR. NO:	LOCATION	UNIT	PERMISSIBLE LIMIT		RESULTS	
			DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
01	Nr. Main Gate	dB	75	70	55	51
02	Nr. ADM Building	dB	75	70	57	53
03	Nr. Canteen	dB	75	70	52	48
04	Nr. Bring Chilling Center	dB	75	70	60	57
05	Nr. DG room	dB	75	70	74	70
06	Nr. HCN Control Room	dB	75	70	65	62
07	Nr. R & D Lab Area	dB	75	70	55	50
08	Nr. Boller Area	dB	75	70	73	68
09	Nr. NaCN Plant	dB	75	70	70	66
10	Nr. Engineering Store	dB	75	70	64	59
11	Nr. SFCN Plant	dB	75	70	66	62
12	Nr. Maintenance Work Shop	dB	75	70	68	64
13	Nr. ETP	dB	75	70	69	65
14	Nr. DPG Plant	dB	75	70	65	61
15	Nr. Fire Pump House	dB	75	70	62	62

Note: Day time: Between 6:00 am to 10:00 pm & Night time: Between 10:00 pm to 6:00 am

Distance From the Source: 5.0 meter in Wind Direction.

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
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PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE

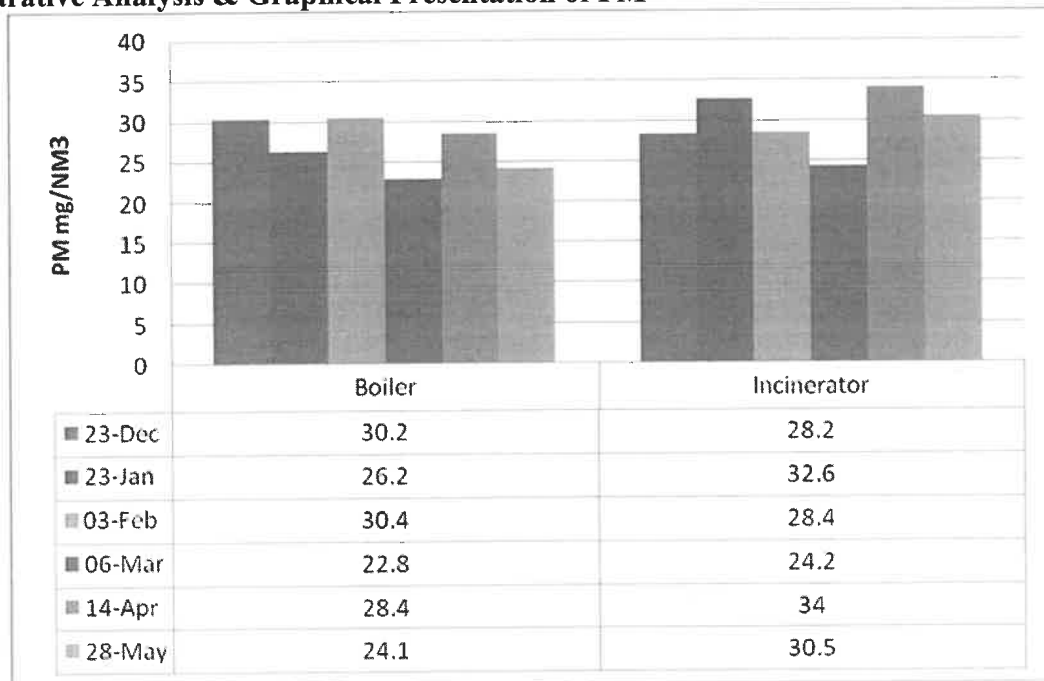
Annexure 12

Stack Monitoring & Analysis Methodology, Analysis Report & Month Wise Comparison

Sr. no.	Particulars	Method
1.	Sampling Procedure	Sampling & analysis was carried out as per the instruction manual and IS: 11255. PM sample was collected as per IS: 11255 Part I and SO ₂ sample as per IS 11255 Part II, NO _x sampling was carried out as per method given by EPA (PDA Method)
2.	Analysis Methodology	
i)	PM	IS: 11255(Part 1): 1985 Ref. 2014
ii)	SO ₂	IS: 11255(Part 2): 1985 Ref. 2014
iii)	NO _x	IS: 11255(Part 7): 2005 Ref. 2017

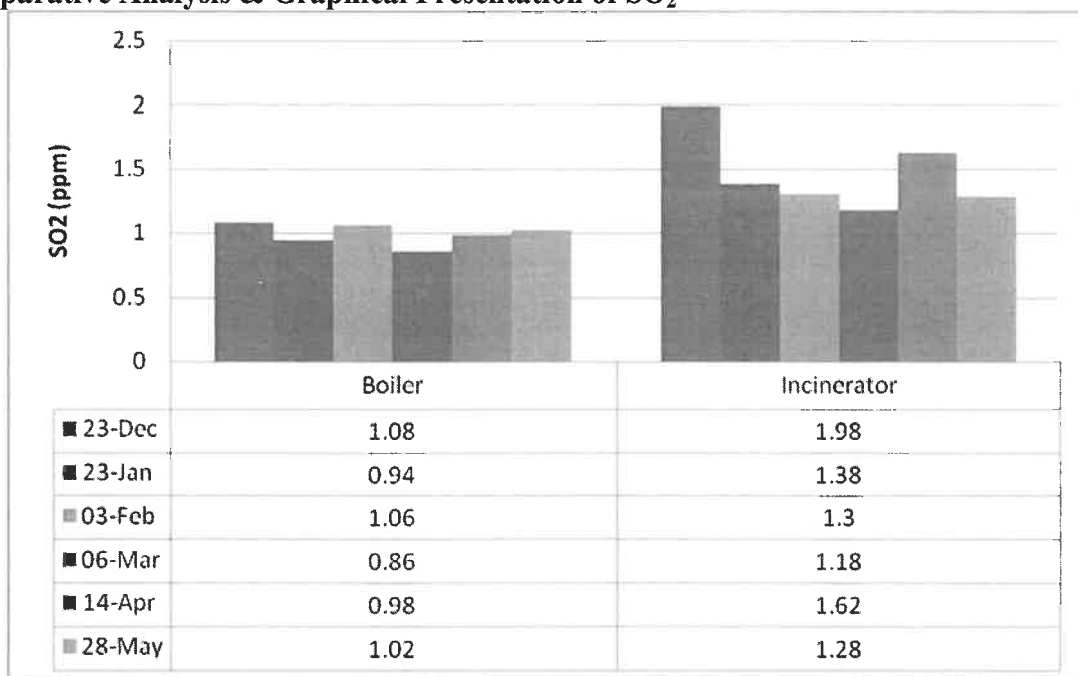
Monthly Variation in Stack Emission for the period of December 2020 to May 2021

1. Comparative Analysis & Graphical Presentation of PM



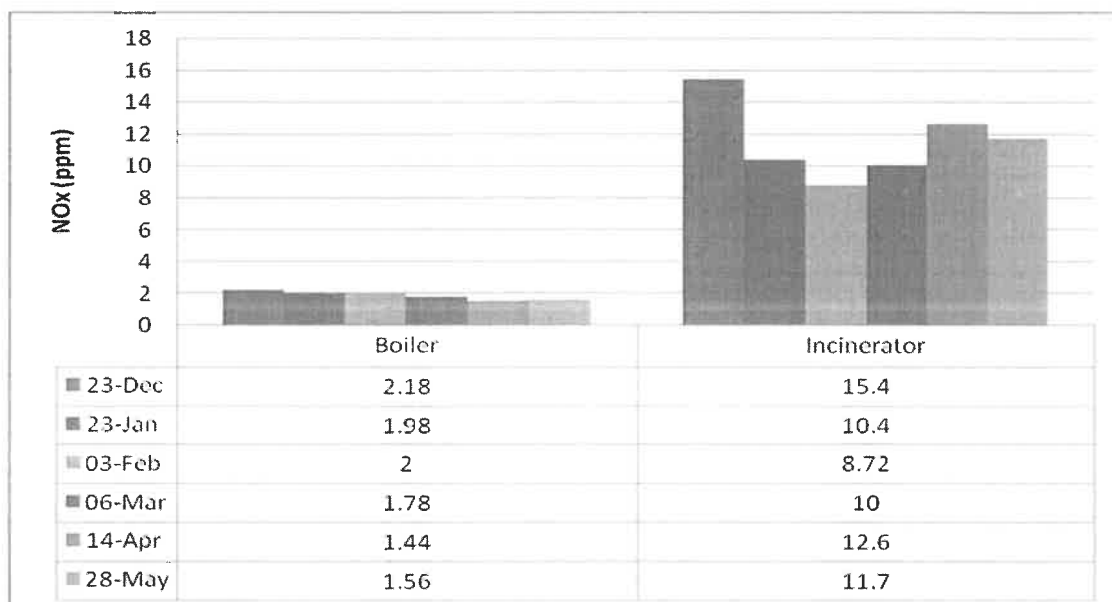
Note: All the values are expressed in mg/Nm³.

2. Comparative Analysis & Graphical Presentation of SO₂



Note: All the values are expressed in ppm.

3. Comparative Analysis & Graphical Presentation of NO_x



Note: All the values are expressed in ppm.



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ISO :14001 : 2015
OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/9
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Stack Attached to Boiler		LAB ID: 80/12
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE: 23/12/2020		SAMPLING TIME: 10:35 am To 11:45 am
PROTOCOL(PURPOSE): Monthly Monitoring		SAMPLE ID NO: EESPL20122306
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE: 24/12/2020		SAMPLE RECEIVED TIME: 10:17 am
TEST START DATE: 24/12/2020		TEST COMPLETION DATE: 26/12/2020

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPRATURE:	33 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	30.2	IS: 11255(Part 1): 1985 Ref. 2019
02	Sulphur Dioxide	ppm	100	1.08	IS: 11255(Part 2): 1985 Ref. 2019
03	Oxides Of Nitrogen	ppm	50	2.18	IS: 11255(Part 7): 2005 Ref. 2017
04	Temperature	°C	-	122	By Thermocouple
05	Velocity	m/s	-	7.17	IS: 11255(Part 3): 2008

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/10
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION: Stack Attached to Incinerator	LAB ID: 81/12	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM	
SAMPLING DATE: 23/12/2020	SAMPLING TIME: 01:40 pm To 02:46 pm	
PROTOCOL(PURPOSE): Monthly Monitoring	SAMPLE ID NO: EESPL20122307	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 24/12/2020	SAMPLE RECEIVED TIME: 10:17 am	
TEST START DATE: 24/12/2020	TEST COMPLETION DATE: 26/12/2020	

SR. No.	STACK/VENT DESCRIPTION
01	AIR POLLUTION CONTROL SYSTEM: ---
02	AMBIENT TEMPRATURE: 33 °C
03	STACK HEIGHT: 40 meter
04	STACK DIAMETER: 1.0 meter
05	FUEL USED: ---

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	28.2	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	ppm	100	1.98	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	ppm	50	15.4	IS: 11255(Part 7): 2005 Reff. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	130	By Thermocouple
08	Velocity	m/s	-	7.1	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

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ISO :14001 : 2015
OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/9
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Stack Attached to Boiler	LAB ID: 70/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 11:05 am To 12:21 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012306
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 29/01/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPRATURE:	30 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	26.2	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	ppm	100	0.94	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	ppm	50	1.98	IS: 11255(Part 7): 2005 Reff. 2017
04	Temperature	°C	-	114	By Thermocouple
05	Velocity	m/s	-	6.52	IS: 11255(Part 3): 2008

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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AUTHORISED SIGNATORY:
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S. S. Patil
PREPARED BY:
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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/10
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Stack Attached to Incinerator	LAB ID: 71/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 01:40 pm To 02:50 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012307
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 01/02/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	---
02	AMBIENT TEMPERATURE:	30 °C
03	STACK HEIGHT:	40 meter
04	STACK DIAMETER:	1.0 meter
05	FUEL USED:	---

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	32.6	IS: 11255(Part 1): 1985 Ref. 2019
02	Sulphur Dioxide	ppm	100	1.38	IS: 11255(Part 2): 1985 Ref. 2019
03	Oxides Of Nitrogen	ppm	50	10.4	IS: 11255(Part 7): 2005 Ref. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	126	By Thermocouple
08	Velocity	m/s	-	7.30	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


 AUTHORISED SIGNATORY:
 (SURESH MORADIA)


 PREPARED BY:
 (TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	87/9		
		ISSUE DATE:	24/02/2021		
SAMPLE DESCRIPTION:	Stack Attached to Boiler	LAB ID:	17/2		
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	Absorbing Media for each Gas & Thimble for PM		
SAMPLING DATE:	03/02/2021	SAMPLING TIME:	10:00 am To 12:22 pm		
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21020306		
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL:	Sealed		
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME:	10:21 am		
TEST START DATE:	04/02/2021	TEST COMPLETION DATE:	08/02/2021		

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPRATURE:	34 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	30.4	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	ppm	100	1.06	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	ppm	50	2.0	IS: 11255(Part 7): 2005 Reff. 2017
04	Temperature	°C	-	118	By Thermocouple
05	Velocity	m/s	-	6.774	IS: 11255(Part 3): 2008

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/10
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Stack Attached to Incinerator	LAB ID: 18/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	03/02/2021	SAMPLING TIME: 01:00 pm To 01:50 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21020307
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME: 10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE: 08/02/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	---
02	AMBIENT TEMPRATURE:	30 °C
03	STACK HEIGHT:	40 meter
04	STACK DIAMETER:	1.4 meter
05	FUEL USED:	---

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	28.4	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	ppm	100	1.30	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	ppm	50	8.72	IS: 11255(Part 7): 2005 Reff. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	1.09	By Thermocouple
08	Velocity	m/s	-	6.84	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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AUTHORISED SIGNATORY:
(SURESH MORADIA)

J.P. Patil
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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE


NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/9
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Stack Attached to Boiler	LAB ID: 14/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 01:05 pm To 02:21 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030607
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 12/03/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPERATURE:	36 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	22.8	IS: 11255(Part 1): 1985 Ref. 2019
02	Sulphur Dioxide	ppm	100	0.86	IS: 11255(Part 2): 1985 Ref. 2019
03	Oxides Of Nitrogen	ppm	50	1.78	IS: 11255(Part 7): 2005 Ref. 2017
04	Temperature	°C	-	102	By Thermocouple
05	Velocity	m/s	-	6.682	IS: 11255(Part 3): 2008

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/10
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION: Stack Attached to Incinerator	LAB ID: 77/3	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM	
SAMPLING DATE: 22/03/2021	SAMPLING TIME: 01:20 pm To 02:10 pm	
PROTOCOL(PURPOSE): Monthly Monitoring	SAMPLE ID NO: EESPL21032206	
SAMPLING METHOD: EESPL/SOP/AIR/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 23/03/2021	SAMPLE RECEIVED TIME: 10:34 am	
TEST START DATE: 23/03/2021	TEST COMPLETION DATE: 26/03/2021	


SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	---
02	AMBIENT TEMPERATURE:	30 °C
03	STACK HEIGHT:	40 meter
04	STACK DIAMETER:	1.4 meter
05	FUEL USED:	---

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	24.2	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	ppm	100	1.18	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	ppm	50	10.0	IS: 11255(Part 7): 2005 Reff. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	116	By Thermocouple
08	Velocity	m/s	-	7.06	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/9
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION: Stack Attached to Boiler		LAB ID: 63/4
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.		SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE: 14/04/2021		SAMPLING TIME: 01:15 pm To 02:30 pm
PROTOCOL(PURPOSE): Monthly Monitoring		SAMPLE ID NO: EESPL21041406
SAMPLING METHOD: EESPL/SOP/AIR/01		PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE: 15/04/2021		SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE: 15/04/2021		TEST COMPLETION DATE: 19/04/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPERATURE:	32 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	28.4	IS: 11255(Part 1): 1985 Ref. 2019
02	Sulphur Dioxide	ppm	100	0.98	IS: 11255(Part 2): 1985 Ref. 2019
03	Oxides Of Nitrogen	ppm	50	1.44	IS: 11255(Part 7): 2005 Ref. 2017
04	Temperature	°C	-	118	By Thermocouple
05	Velocity	m/s	-	6.77	IS: 11255(Part 3): 2008

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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J. P. P. P.
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/10
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Stack Attached to Incinerator	LAB ID: 64/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 01:35 pm To 02:25 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041407
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 21/04/2021

SR. No.	STACK/VENT DESCRIPTION
01	AIR POLLUTION CONTROL SYSTEM: ---
02	AMBIENT TEMPERATURE: 32 °C
03	STACK HEIGHT: 40 meter
04	STACK DIAMETER: 1.4 meter
05	FUEL USED: ---

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	34.0	IS: 11255(Part 1): 1985 Ref. 2019
02	Sulphur Dioxide	ppm	100	1.62	IS: 11255(Part 2): 1985 Ref. 2019
03	Oxides Of Nitrogen	ppm	50	12.6	IS: 11255(Part 7): 2005 Ref. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	109	By Thermocouple
08	Velocity	m/s	-	6.84	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

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PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/5
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Stack Attached to Boiler	LAB ID: 117/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 01:15 pm To 02:30 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052810
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	Cyclone Separator
02	AMBIENT TEMPERATURE:	33 °C
03	STACK HEIGHT:	31 meter
04	STACK DIAMETER:	0.7 meter
05	FUEL USED:	Natural Gas

RESULT TABLE:					
SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	24.1	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	Ppm	100	1.02	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	Ppm	50	1.56	IS: 11255(Part 7): 2005 Reff. 2017
04	Temperature	°C	-	112	By Thermocouple
05	Velocity	m/s	-	6.698	IS: 11255(Part 3): 2008

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Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

THRC
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/6
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Stack Attached to Incinerator	LAB ID: 118/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Absorbing Media for each Gas & Thimble for PM
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 01:35 pm To 02:25 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052811
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 03/06/2021

SR. No.	STACK/VENT DESCRIPTION	
01	AIR POLLUTION CONTROL SYSTEM:	---
02	AMBIENT TEMPERATURE:	33 °C
03	STACK HEIGHT:	40 meter
04	STACK DIAMETER:	1.4 meter
05	FUEL USED:	---

RESULT TABLE:

SR. No:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	Particulate Matter	mg/Nm ³	150	30.5	IS: 11255(Part 1): 1985 Reff. 2019
02	Sulphur Dioxide	Ppm	100	1.28	IS: 11255(Part 2): 1985 Reff. 2019
03	Oxides Of Nitrogen	Ppm	50	11.7	IS: 11255(Part 7): 2005 Reff. 2017
04	HCL	mg/Nm ³	20	BDL	EPA method
05	HCN	mg/Nm ³	30	BDL	Chromatographic method
06	HC	mg/Nm ³	-	BDL	IS: 5182(Part 17):1979
07	Temperature	°C	-	104	By Thermocouple
08	Velocity	m/s	-	6.95	IS: 11255(Part 3): 2008

NOTE: BDL: Below Detection Limits
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Moradia
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(SURESH MORADIA)

J.Pet
PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE

Annexure 13

Water Sampling & Analysis Method, Analysis Report & Month Wise Comparison

S. No.	Particulars	Test method
1.	pH	IS: 3025 (Part 11)-1983 Reff. 2017
2.	Temperature	IS: 3025 (Part 9) 1984 Re. 2017
3.	Turbidity	IS:3025 (Part 10) 1984 Reff. 2017
4.	Total Dissolved Solids	IS 3025 (Part 16)-1984 Reff. 2017
5.	DO	IS: 3025 (Part 38)-1989 Reff.2014
6.	BOD	IS: 3025 (Part 44)-1993 Reff.2014
7.	Nitrate	APHA23rd ed.2017,4500 NO3.B
8.	Total Phosphate	IS: 3025 (Part 31) 1988 Reff. 2003
9.	Chloride	IS 3025 (Part 32)-1988 Reff. 2014
10.	Sulphate	APHA 23 rd ed. 2017, 4500-SO42-C
11.	Total Hardness	IS:3025 (Part 21): 2014
12.	Calcium	IS: 3025 (Part 40):1991 Reff. 2014
13.	Magnesium	APHA 23rd ed.2017,3500-Mg B.
14.	Cyanides	IS:3025 (Part 27):1986 Reff.1998
15.	Chromium	IS: 3025 (Part 52):2003 Reff. 2014
16.	Copper	IS: 3025 (Part 42):1992 Reff. 2014
17.	Iron	APHA23 rd ed.2017,3500 Fe.B
18.	Zinc	IS:3025 (Part 49) :1994 Reff.2014
19.	Lead	IS 3025(Part 47):1994 Reff. 2014

Monthly Comparison of Water sample of Ganesh Automobiles Borewell

S.no.	Parameters	Unit	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21
01	pH	pH Unit	7.42	7.26	7.34	7.12	7.28	7.27
02	Temperature	°C	30	32	33	34	36	30
03	Turbidity	NTU	1.4	1.0	1.4	0.56	0.66	1.2
04	Total Dissolved Solids	mg/L	236	216	242	208	292	232
05	DO	mg/L	5.4	4.8	5.2	4.2	5.8	4.9
06	BOD	mg/L	<4	<4	<4	<4	<4	<4
07	Nitrate	mg/L	2.4	1.8	2.0	1.2	2.0	1.9
08	Total Phosphate	mg/L	0.36	0.30	0.36	0.15	0.20	0.34
09	Chloride	mg/L	124	104	116	102	130	112
10	Sulphate	mg/L	26	20.6	22.8	20.2	28.4	21.8
11	Total Hardness	mg/L	106.2	96	104	92	112	99
12	Calcium	mg/L	58.6	44.2	54.6	42.0	56.2	40.3
13	Magnesium	mg/L	47.6	51.8	49.4	50	55.8	50.2
14	Cyanides	mg/L	NIL	NIL	NIL	NIL	NIL	NIL
15	Chromium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
16	Copper	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
17	Iron	mg/L	0.032	0.026	0.034	0.022	0.030	0.031
18	Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
19	Lead	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
20	Total Alkalinity	mg/L	132	122	136	110	132	131
21	Silica	mg/L	6.04	5.76	6.28	4.32	6.26	5.3
22	Total Coli form	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/13
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles	LAB ID: 44/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	08/12/2020	SAMPLING TIME: 01:40 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL20120808
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE: 17/12/2020

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.42	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	-	30	IS: 3025 (Part 9): 1984 Reff.2017
03	Turbidity	NTU	5.0	1.4	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	236	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	-	5.4	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	-	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	2.4	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.36	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	124	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	26	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	106.2	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	58.6	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	47.6	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.032	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff. 2019
20	Total Alkalinity	mg/L	200	132	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	-	6.04	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Moradia
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OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/14
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Bore well Sample Nemlaxmi Books	LAB ID: 45/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	08/12/2020	SAMPLING TIME: 02:23 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL20120809
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE: 17/12/2020

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.64	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	29	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	1.0	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	148	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	5.0	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.8	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.32	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	86	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	22.8	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	86	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	60.8	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	25.2	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.034	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	140	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	7.34	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/15
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID: 46/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	08/12/2020	SAMPLING TIME: 02:50 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL20120810
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE: 17/12/2020

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.44	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	30	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.8	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	50	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	5.8	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.6	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.22	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	18.4	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	7.4	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	16.4	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	10.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	6.2	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.022	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	128	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.84	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/16
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID: 47/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	08/12/2020	SAMPLING TIME: 03:15 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL20120811
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE: 17/12/2020

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.28	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	31	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	1.2	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	58	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	6.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.0	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.26	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	20	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	8.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	20.6	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	12.4	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	8.2	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.058	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	168	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	7.02	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia

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(SURESH MORADIA)

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/13	
		ISSUE DATE: 03/02/2021	
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles	LAB ID:	74/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	23/01/2021	SAMPLING TIME:	11:37 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21012310
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME:	10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE:	03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.26	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	-	32	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	1.0	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	216	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	-	4.8	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	-	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.8	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.30	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	104	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	20.6	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	96	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	44.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	51.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.026	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	122	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	-	5.76	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/14
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Bore well Sample Nemlaxmi Books	LAB ID: 75/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 12:03 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012311
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.48	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	30	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.96	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	128	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.2	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.26	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	74	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	16.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	72	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	56.4	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	15.6	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.030	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	134	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.92	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/15
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID: 76/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 12:29 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012312
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.06	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	31	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	1.4	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	42	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	5.6	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.9	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.22	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	18.2	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	6.8	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	18	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	10.8	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	5.2	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.042	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	156	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.84	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/16	
		ISSUE DATE: 03/02/2021	
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID:	77/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	23/01/2021	SAMPLING TIME:	12:46 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21012313
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME:	10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE:	03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.34	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	32	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.92	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	34	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	5.0	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.0	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.18	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	16.8	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	6.0	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	14	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	8.9	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	5.1	APHA 23 rd ed.2017,3500-Mg.B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.014	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	118	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	5.96	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/13
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles	LAB ID: 21/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	03/02/2021	SAMPLING TIME: 11:47 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21020310
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME: 10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE: 13/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.34	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	-	33	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	1.4	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	242	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	-	5.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	-	<4	IS: 3025 (Part 44): 1993 Reff. 2019
07	Nitrate	mg/L	45	2.0	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.36	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	116	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	22.8	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	104	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	54.6	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	49.4	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.034	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	136	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	-	6.28	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/14
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION: Bore well Sample Nemlaxmi Books	LAB ID: 22/2	
SAMPLE COLLECTED BY: Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle	
SAMPLING DATE: 03/02/2021	SAMPLING TIME: 12:10 pm	
PROTOCOL(PURPOSE): Monthly Monitoring	SAMPLE ID NO: EESPL21020311	
SAMPLING METHOD: EESPL/SOP/WATER/01	PACKING/SEAL: Sealed	
SAMPLE RECEIVED DATE: 04/02/2021	SAMPLE RECEIVED TIME: 10:21 am	
TEST START DATE: 04/02/2021	TEST COMPLETION DATE: 13/02/2021	

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.54	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	32	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.98	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	138	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.6	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.4	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.30	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	82	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	20.4	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	82	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	60.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	21.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.032	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	144	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	7.22	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/15	
		ISSUE DATE: 24/02/2021	
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID:	23/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	03/02/2021	SAMPLING TIME:	12:20 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21020312
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME:	10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE:	13/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.32	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	30	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	1.2	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	38	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.7	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.20	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	16.4	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	6.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	16	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	8.02	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	7.98	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.040	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	150	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.20	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/16
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID: 24/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	03/02/2021	SAMPLING TIME: 12:50 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21020313
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME: 10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE: 13/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.16	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	31	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.86	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	32	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.6	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.8	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.16	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	14.8	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	4.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	12	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	8.12	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	3.88	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.010	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	108	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	5.24	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/13	ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles	LAB ID: 17/3	
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	06/03/2021	SAMPLING TIME:	11:30 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21030610
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME:	10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE:	19/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.12	IS:3025 (Part 11): 1983 Ref.2017
02	Temperature	°C	-	34	IS: 3025 (Part 9): 1984 Ref.2017
03	Turbidity	NTU	5.0	0.56	IS:3025 (Part 10): 1984 Ref.2017
04	Total Dissolved Solids	mg/L	500	208	IS:3025 (Part 16): 1984 Ref.2017
05	DO	mg/L	-	4.2	IS 3025 (Part 38): 1989 Ref.2019
06	BOD	mg/L	-	<4	IS: 3025 (Part 44): 1993 Ref.2019
07	Nitrate	mg/L	45	1.2	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.15	IS: 3025 (Part 31): 1988 Ref.2019
09	Chloride	mg/L	250	102	IS:3025 (Part 32): 1988 Ref 2019
10	Sulphate	mg/L	200	20.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	92	IS: 3025 (Part 21): 2009 Ref.2019
12	Calcium	mg/L	75	42.0	IS: 3025 (Part 40): 1991 Ref.2019
13	Magnesium	mg/L	30	50	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Ref.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Ref. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Ref. 2019
17	Iron	mg/L	0.3	0.022	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Ref.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Ref.2019
20	Total Alkalinity	mg/L	200	110	IS: 3025 (Part23): 1986 Ref. 2019
21	Silica	mg/L	-	4.32	IS: 3025 (Part 35): 1988 Ref.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/14
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Bore well Sample Nemlaxmi Books	LAB ID: 18/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 11:40 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030611
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 19/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.24	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	33	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.42	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	114	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	3.8	IS 3025 (Part 38): 1989 Reff. 2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.8	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.13	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	72	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	14.0	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	68	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	52.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	15.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.020	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	122	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	5.40	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/15
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID: 19/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 12:00 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030612
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 19/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.03	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	34	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.70	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	32	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	5.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.4	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.11	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	14.0	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	4.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	12	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	6.82	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	5.18	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.036	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	132	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	4.42	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/16
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID: 20/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 12:20 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030613
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 19/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.02	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	32	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.40	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	28	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.6	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.5	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.09	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	12.4	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	4.0	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	10	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	6.40	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	3.60	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.016	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	108	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	3.40	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/13
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles	LAB ID: 67/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 11:40 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041410
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.28	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	-	36	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.66	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	292	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	-	5.8	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	-	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	2.0	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.20	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	130	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	28.4	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	112	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	56.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	55.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.030	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	132	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	-	6.26	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	175/14
		ISSUE DATE:	26/04/2021
SAMPLE DESCRIPTION:	Bore well Sample Nemlaxmi Books	LAB ID:	68/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	14/04/2021	SAMPLING TIME:	11:53 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21041411
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME:	10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE:	26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.36	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	34	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.52	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	164	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.0	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.6	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.26	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	94	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	20.0	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	92	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	60.6	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	31.4	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.026	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	154	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	8.60	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/15
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID: 69/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 12:10 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041412
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.12	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	38	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.74	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	52	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.8	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.0	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.18	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	20.2	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	8.0	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	34	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	10.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	23.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.044	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	98	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.02	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/16
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID: 70/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 12:30 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041413
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.30	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	33	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.58	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	44	IS:3025 (Part 16): 1984 Reff.2017
05	DO	mg/L	--	4.2	IS 3025 (Part 38): 1989 Reff.2019
06	BOD	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.2	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.14	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	18.6	IS:3025 (Part 32):.1988 Reff 2019
10	Sulphate	mg/L	200	6.8	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	26	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	8.2	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	17.8	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.022	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	140	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	4.52	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	240/9
		ISSUE DATE:	07/06/2021
SAMPLE DESCRIPTION:	Bore well Sample Ganesh Automobiles.	LAB ID:	121/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	28/05/2021	SAMPLING TIME:	11:40 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21052814
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME:	10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE:	07/06/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.27	IS:3025 (Part 11): 1983 Reff.201
02	Temperature	°C	-	30	IS: 3025 (Part 9): 1984 Reff:201
03	Turbidity	NTU	5.0	1.2	IS:3025 (Part 10): 1984 Reff.201
04	Total Dissolved Solids	mg/L	500	232	IS:3025 (Part 16): 1984 Reff.201
05	Dissolved Oxygen	mg/L	-	4.9	IS 3025 (Part 38): 1989 Reff.201
06	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	-	<4	IS: 3025 (Part 44): 1993 Reff.201
07	Nitrate	mg/L	45	1.9	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	-	0.34	IS: 3025 (Part 31): 1988 Reff.201
09	Chloride	mg/L	250	112	IS:3025 (Part 32): 1988 Reff 201
10	Sulphate	mg/L	200	21.8	APHA 23 rd ed. 2017,4500-SO42-
11	Total Hardness	mg/L	300	99	IS: 3025 (Part 21): 2009 Reff.201
12	Calcium	mg/L	75	40.3	IS: 3025 (Part 40): 1991 Reff.201
13	Magnesium	mg/L	30	50.2	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.199
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 201
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 201
17	Iron	mg/L	0.3	0.031	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.201
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.201
20	Total Alkalinity	mg/L	200	131	IS: 3025 (Part23): 1986 Reff. 201
21	Silica	mg/L	-	5.93	IS: 3025 (Part 35): 1988 Reff.201
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
AUTHORISED SIGNATORY:
(SURESH MORADIA)

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NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/10
		ISSUE DATE: 07/06/2021
SAMPLE DESCRIPTION:	Bore well Sample Nemlaxmi Books	LAB ID: 122/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 11:53 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052815
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 07/06/2021

RESULT TABLE:

Sr. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.08	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	33	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	0.87	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	131	IS:3025 (Part 16): 1984 Reff.2017
05	Dissolved Oxygen	mg/L	--	4.3	IS 3025 (Part 38): 1989 Reff.2019
06	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	1.3	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.28	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	80	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	18.2	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	76	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	59.3	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	18.1	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.034	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	139	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.81	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia
 AUTHORISED SIGNATORY:
 (SURESH MORADIA)

[Signature]
 PREPARED BY:
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NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/11	
		ISSUE DATE: 07/06/2021	
SAMPLE DESCRIPTION:	Bore well Sample Surat Drums Factory	LAB ID:	123/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	28/05/2021	SAMPLING TIME:	12:10 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21052816
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME:	10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE:	07/06/2021

RESULT TABLE:

S.R. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.12	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	32	IS: 3025 (Part 9): 1984 Reff.:2017
03	Turbidity	NTU	5.0	1.3	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	39	IS:3025 (Part 16): 1984 Reff.2017
05	Dissolved Oxygen	mg/L	--	5.2	IS 3025 (Part 38): 1989 Reff.2019
06	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.8	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.021	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	17.5	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	6.4	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	27	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	19.4	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	6.94	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.047	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	153	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.53	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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AUTHORISED SIGNATORY:
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NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/12	
		ISSUE DATE: 07/06/2021	
SAMPLE DESCRIPTION:	Bore well Sample Masma Village	LAB ID:	124/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	2 Liter in Plastic carboy & 100 ml in Sterile bottle
SAMPLING DATE:	28/05/2021	SAMPLING TIME:	12:30 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21052817
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME:	10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE:	07/06/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	Desirable Limits (As per IS 10500)	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.35	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	--	34	IS: 3025 (Part 9): 1984 Reff:2017
03	Turbidity	NTU	5.0	0.90	IS:3025 (Part 10): 1984 Reff.2017
04	Total Dissolved Solids	mg/L	500	33	IS:3025 (Part 16): 1984 Reff.2017
05	Dissolved Oxygen	mg/L	--	4.8	IS 3025 (Part 38): 1989 Reff.2019
06	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	--	<4	IS: 3025 (Part 44): 1993 Reff.2019
07	Nitrate	mg/L	45	0.9	APHA23 rd ed.2017,4500 NO3.B
08	Total Phosphate	mg/L	--	0.17	IS: 3025 (Part 31): 1988 Reff.2019
09	Chloride	mg/L	250	15.4	IS:3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	200	5.3	APHA 23 rd ed. 2017,4500-SO42-C
11	Total Hardness	mg/L	300	13	IS: 3025 (Part 21): 2009 Reff.2019
12	Calcium	mg/L	75	8.11	IS: 3025 (Part 40): 1991 Reff.2019
13	Magnesium	mg/L	30	4.43	APHA 23 rd ed.2017,3500-Mg B.
14	Cyanides	mg/L	0.05	NIL	IS:3025 (Part 27): 1986 Reff.1998
15	Chromium	mg/L	0.05	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Copper	mg/L	0.05	<0.02	IS 3025 (Part 42): 1992 Reff. 2019
17	Iron	mg/L	0.3	0.012	APHA23 rd ed.2017,3500 Fe.B
18	Zinc	mg/L	0.05	<0.01	IS 3025 (Part 49): 1994, Reff.2019
19	Lead	mg/L	0.05	<0.1	IS 3025 (Part 47): 1994 Reff.2019
20	Total Alkalinity	mg/L	200	115	IS: 3025 (Part23): 1986 Reff. 2019
21	Silica	mg/L	--	6.01	IS: 3025 (Part 35): 1988 Reff.2019
22	Total Coli form	/100 ml	Absent	Absent	APHA 23 rd ed.2017,9221-D

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Annexure 14**Effluent Sampling & Analysis Method, Analysis Report & Month Wise Comparison**

S. No.	Particulars	Test method
1.	pH	IS: 3025 (Part 11)-1983 Reff. 2017
2.	Temperature	IS: 3025 (Part 9) 1984 Re. 2017
3.	Color	IS: 3025 (Part 39): 1991 Reff. 2014
4.	Total Dissolved Solids	IS 3025 (Part 16)-1984 Reff. 2017
5.	Suspended Solids	IS 3025 (Part 17)-1984 Reff. 2017
6.	COD	APHA 23 rd ed. 2017, 5220 B
7.	BOD	IS: 3025 (Part 44)-1993 Reff.2014
8.	Oil & Grease	IS 3025 (Part 39)-1991 Reff. 2014
9.	Chloride	IS 3025 (Part 32)-1988 Reff. 2014
10.	Sulphate	APHA 23 rd ed.2017, 4500-SO42-C
11.	Ammonical Nitrogen	IS: 3025 (Part 34) :1988 Reff. 2014
12.	Phenolic Compound	IS: 3025 (Part 43) 1992 Reff. 2014
13.	Cyanides	IS:3025 (Part 27):1986 Reff.1998
14.	Hexavalent Chromium	APHA 23 rd ed. 2017, 3500 Cr+6/B
15.	Total Chromium	IS: 3025 (Part 52) : 2003 Reff. 2014
16.	Sulphides	IS:3025 (Part 29) :1986 Reff.1992
17.	Fluoride	APHA23 rd ed. 2017, 4500F ⁻ .D
18.	Bio Assay Test	IS 6582 (Part 2) : 2001

Monthly Comparison of Effluent sample (Equalization Tank)

S. no.	Parameters	Unit	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21
01	pH	pH Unit	6.90	6.96	6.78	6.34	6.02	6.18
02	Temperature	°C	30	32	33	34	32	34
03	Color	Hazen	24	26	30	22	28	29
04	Total Dissolved Solids	mg/L	528	482	472	438	504	478
05	Suspended Solids	mg/L	6.2	5.4	3.8	2.6	6.8	4.7
06	COD	mg/L	62.8	56.2	52	60.8	74.2	66.2
07	BOD	mg/L	18.2	14.0	10	16.2	20.8	17.7
08	Oil & Grease	mg/L	2.2	2.6	2.2	1.4	2.0	1.8
09	Chloride	mg/L	42.76	38.22	34.48	26.72	32.80	31.07
10	Sulphate	mg/L	46	32	28	20	26.62	24.05
11	Ammonical Nitrogen	mg/L	1.2	1.6	1.0	0.92	1.8	1.4
12	Phenolic Compound	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
13	Cyanides	mg/L	NIL	NIL	NIL	NIL	NIL	NIL
14	Hexavalent Chromium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
15	Total Chromium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
16	Sulphides	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
17	Fluoride	mg/L	0.24	0.20	0.16	0.22	0.14	0.18

Monthly Comparison of Effluent sample (Final Outlet to ZLD)

Sr.no.	Parameters	Unit	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21
01	pH	pH Unit	7.04	7.12	7.02	7.32	7.20	7.26
02	Temperature	^o C	29	31	30	33	31	30
03	Color	Pt. Co	18	20	22	16	22	18
04	Total Dissolved Solids	mg/L	26	22	20	12	40	32
05	Suspended Solids	mg/L	0.82	0.92	0.78	0.66	1.6	1.2
06	COD	mg/L	NIL	1.46	1.06	1.32	3.08	2.34
07	BOD	mg/L	NIL	NIL	NIL	NIL	NIL	NIL
08	Oil & Grease	mg/L	1.0	1.4	1.0	0.84	1.2	0.98
09	Chloride	mg/L	14	12	10.62	8.26	10.16	9.17
10	Sulphate	mg/L	10	8.06	6.96	4.78	6.80	5.56
11	Ammonical Nitrogen	mg/L	1.0	0.82	0.64	0.80	0.64	0.73
12	Phenolic Compound	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
13	Cyanides	mg/L	NIL	NIL	NIL	NIL	NIL	NIL
14	Hexavalent Chromium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
15	Total Chromium	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
16	Sulphides	mg/L	BDL	BDL	BDL	BDL	BDL	BDL
17	Fluoride	mg/L	0.14	0.09	0.05	0.03	0.01	0.02
18	Bio Assay Test	%	98	97	98	98	96	97



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NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/11	
		ISSUE DATE: 26/12/2020	
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID:	42/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	5 Liter
SAMPLING DATE:	08/12/2020	SAMPLING TIME:	12:03 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL201120806
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME:	10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE:	17/12/2020

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.90	IS: 3025 (Part 11): 1983 Ref. 2017
02	Temperature	°C	30	IS: 3025 (Part 9): 1984 Ref. 2017
03	Color	Hazen	24	APHA 23 rd ed. 2017, 2120-C
04	Total Dissolved Solids	mg/L	528	IS: 3025 (Part 16): 1984 Ref. 2017
05	Suspended Solids	mg/L	6.2	IS: 3025 (Part 17): 1984 Ref. 2017
06	COD	mg/L	62.8	APHA 23 rd ed. 2017, 5220 B
07	BOD	mg/L	18.2	IS: 3025 (Part 44): 1993 Ref. 2019
08	Oil & Grease	mg/L	2.2	IS: 3025 (Part 39): 1991 Ref. 2019
09	Chloride	mg/L	42.76	IS: 3025 (Part 32): 1988 Ref. 2019
10	Sulphate	mg/L	46	APHA 23 rd ed. 2017, 4500-SO42-C
11	Ammonical Nitrogen	mg/L	1.2	IS: 3025 (Part 34): 1988 Ref. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Ref. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Ref. 1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017, 3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Ref. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Ref. 2019
17	Fluoride	mg/L	0.24	APHA 23 rd ed. 2017, 4500F-D

Note: BDL: Below detection Limit

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 AUTHORISED SIGNATORY:
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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/12
		ISSUE DATE: 26/12/2020
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID: 43/12
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	08/12/2020	SAMPLING TIME: 12:35 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL201120807
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	09/12/2020	SAMPLE RECEIVED TIME: 10:15 am
TEST START DATE:	09/12/2020	TEST COMPLETION DATE: 17/12/2020

RESULT TABLE:

S.R. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.04	IS:3025 (Part 11): 1983 Ref.2017
02	Temperature	°C	40	29	IS: 3025 (Part 9): 1984 Ref.2017
03	Color	Hazen	100	18	IS: 3025 (Part 4): 1991 Ref.2017
04	Total Dissolved Solids	mg/L	-	26	IS: 3025 (Part 16): 1984 Ref.2019
05	Suspended Solids	mg/L	100	0.82	IS: 3025 (Part 17): 1984 Ref.2017
06	COD	mg/L	250	NIL	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	30	NIL	IS: 3025 (Part 44): 1993 Ref.2019
08	Oil & Grease	mg/L	10	1.0	IS: 3025 (Part 39): 1991 Ref.2019
09	Chloride	mg/L	-	14	IS:3025 (Part 32): 1988 Ref.2019
10	Sulphate	mg/L	-	10	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	1.0	IS: 3025 (Part 34): 1988 Ref.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Ref.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Ref.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Ref.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Ref.2019
17	Fluoride	mg/L	1.5	0.14	APHA23 rd ed. 2017,4500F-D
18	Bio Assay Test	%	-	98	IS: 6582 (Part 2): 2001 Ref.2019

Note: BDL: Below detection Limit

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TEST REPORT / CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/11
		ISSUE DATE: 03/02/2021
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID: 72/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 10:53 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012308
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.96	IS: 3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	32	IS: 3025 (Part 9): 1984 Reff. 2017
03	Color	Hazen	26	APHA 23 rd ed.2017,2120-C
04	Total Dissolved Solids	mg/L	482	IS: 3025 (Part 16): 1984 Reff. 2017
05	Suspended Solids	mg/L	5.4	IS: 3025 (Part 17): 1984 Reff. 2017
06	COD	mg/L	56.2	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	14.0	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	2.6	IS: 3025 (Part 39): 1991 Reff. 2019
09	Chloride	mg/L	38.22	IS: 3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	32	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	1.6	IS: 3025 (Part 34): 1988 Reff. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Reff. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	0.20	APHA23 rd ed.2017,4500F.D

Note: BDL: Below detection Limit

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AUTHORISED SIGNATORY:
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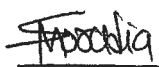
NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	51/12
		ISSUE DATE:	03/02/2021
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID:	73/1
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	5 Liter
SAMPLING DATE:	23/01/2021	SAMPLING TIME:	11:14 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21012309
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME:	10:07 am
TEST START DATE:	25/01/2021	TEST COMPLETION DATE:	03/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.12	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	40	31	IS: 3025 (Part 9): 1984 Reff.2017
03	Color	Hazen	100	20	IS: 3025 (Part 4): 1991 Reff.2017
04	Total Dissolved Solids	mg/L	-	22	IS: 3025 (Part 16): 1984 Reff.2019
05	Suspended Solids	mg/L	100	0.92	IS: 3025 (Part 17): 1984 Reff.2017
06	COD	mg/L	250	1.46	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	30	NIL	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	10	1.4	IS: 3025 (Part 39): 1991 Reff.2019
09	Chloride	mg/L	-	12	IS:3025 (Part 32): 1988 Reff.2019
10	Sulphate	mg/L	-	8.06	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	0.82	IS: 3025 (Part 34): 1988 Reff.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Reff.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Reff.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	1.5	0.09	APHA23 rd ed. 2017,4500F-D
18	Bio Assay Test	%	-	97	IS: 6582 (Part 2): 2001 Reff.2019

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
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END OF TEST REPORT/CERTIFICATE



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/11
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID: 19/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	03/02/2021	SAMPLING TIME: 11:10 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21020308
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME: 10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE: 12/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.78	IS: 3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	33	IS: 3025 (Part 9): 1984 Reff. 2017
03	Color	Hazen	30	APHA 23 rd ed.2017,2120-C
04	Total Dissolved Solids	mg/L	472	IS: 3025 (Part 16): 1984 Reff. 2017
05	Suspended Solids	mg/L	3.8	IS: 3025 (Part 17): 1984 Reff. 2017
06	COD	mg/L	52	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	10	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	2.2	IS: 3025 (Part 39): 1991 Reff. 2019
09	Chloride	mg/L	34.48	IS: 3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	28	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	1.0	IS: 3025 (Part 34): 1988 Reff. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Reff. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	0.16	APHA23 rd ed.2017,4500F ⁻ D

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE


NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/12
		ISSUE DATE: 24/02/2021
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID: 20/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	03/02/2021	SAMPLING TIME: 11:24 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21020309
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME: 10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE: 12/02/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.02	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	40	30	IS: 3025 (Part 9): 1984 Reff.2017
03	Color	Hazen	100	22	IS: 3025 (Part 4): 1991 Reff.2017
04	Total Dissolved Solids	mg/L	-	20	IS: 3025 (Part 16): 1984 Reff.2019
05	Suspended Solids	mg/L	100	0.78	IS: 3025 (Part 17): 1984 Reff.2017
06	COD	mg/L	250	1.06	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	30	Nil	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	10	1.0	IS: 3025 (Part 39): 1991 Reff.2019
09	Chloride	mg/L	-	10.62	IS:3025 (Part 32): 1988 Reff.2019
10	Sulphate	mg/L	-	6.96	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	0.64	IS: 3025 (Part 34): 1988 Reff.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Reff.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Reff.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	1.5	0.05	APHA 23 rd ed. 2017,4500F.D
18	Bio Assay Test	%	-	98	IS: 6582 (Part 2): 2001 Reff.2019

Note: BDL: Below detection Limit

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NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/11
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID: 15/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 11:00 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030608
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 17/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.34	IS: 3025 (Part 11): 1983 Ref. 2017
02	Temperature	°C	34	IS: 3025 (Part 9): 1984 Ref. 2017
03	Color	Hazen	22	APHA 23 rd ed. 2017, 2120-C
04	Total Dissolved Solids	mg/L	438	IS: 3025 (Part 16): 1984 Ref. 2017
05	Suspended Solids	mg/L	2.6	IS: 3025 (Part 17): 1984 Ref. 2017
06	COD	mg/L	60.8	APHA 23 rd ed. 2017, 5220 B
07	BOD	mg/L	16.2	IS: 3025 (Part 44): 1993 Ref. 2019
08	Oil & Grease	mg/L	1.4	IS: 3025 (Part 39): 1991 Ref. 2019
09	Chloride	mg/L	26.72	IS: 3025 (Part 32): 1988 Ref. 2019
10	Sulphate	mg/L	20	APHA 23 rd ed. 2017, 4500-SO42-C
11	Ammonical Nitrogen	mg/L	0.92	IS: 3025 (Part 34): 1988 Ref. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Ref. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Ref. 1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017, 3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Ref. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Ref. 2019
17	Fluoride	mg/L	0.22	APHA 23 rd ed. 2017, 4500F-D

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE


NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/12
		ISSUE DATE: 30/03/2021
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID: 16/3
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	06/03/2021	SAMPLING TIME: 11:15 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21030609
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	08/03/2021	SAMPLE RECEIVED TIME: 10:00 am
TEST START DATE:	08/03/2021	TEST COMPLETION DATE: 17/03/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.32	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	40	33	IS: 3025 (Part 9): 1984 Reff.2017
03	Color	Hazen	100	16	IS: 3025 (Part 4): 1991 Reff.2017
04	Total Dissolved Solids	mg/L	-	12	IS: 3025 (Part 16): 1984 Reff.2019
05	Suspended Solids	mg/L	100	0.66	IS: 3025 (Part 17): 1984 Reff.2017
06	COD	mg/L	250	1.32	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	30	Nil	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	10	0.84	IS: 3025 (Part 39): 1991 Reff.2019
09	Chloride	mg/L	-	8.26	IS:3025 (Part 32): 1988 Reff.2019
10	Sulphate	mg/L	-	4.78	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	0.80	IS: 3025 (Part 34): 1988 Reff.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Reff.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Reff.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	1.5	0.03	APHA 23 rd ed. 2017,4500F.D
18	Bio Assay Test	%	-	98	IS: 6582 (Part 2): 2001 Reff.2019

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/11
		ISSUE DATE: 26/04/2021
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID: 65/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: 5 Liter
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 11:15 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041408
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL: Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.02	IS: 3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	32	IS: 3025 (Part 9): 1984 Reff. 2017
03	Color	Hazen	28	APHA 23 rd ed.2017,2120-C
04	Total Dissolved Solids	mg/L	504	IS: 3025 (Part 16): 1984 Reff. 2017
05	Suspended Solids	mg/L	6.8	IS: 3025 (Part 17): 1984 Reff. 2017
06	COD	mg/L	74.2	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	20.8	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	2.0	IS: 3025 (Part 39): 1991 Reff. 2019
09	Chloride	mg/L	32.80	IS: 3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	26.62	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	1.8	IS: 3025 (Part 34): 1988 Reff. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Reff. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	0.14	APHA23 rd ed.2017,4500F.D

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	175/12
		ISSUE DATE:	26/04/2021
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID:	66/4
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	5 Liter
SAMPLING DATE:	14/04/2021	SAMPLING TIME:	11:34 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21041409
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME:	10:19 am
TEST START DATE:	15/04/2021	TEST COMPLETION DATE:	26/04/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.20	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	40	31	IS: 3025 (Part 9): 1984 Reff.2017
03	Color	Hazen	100	22	IS: 3025 (Part 4): 1991 Reff.2017
04	Total Dissolved Solids	mg/L	-	40	IS: 3025 (Part 16): 1984 Reff.2019
05	Suspended Solids	mg/L	100	1.6	IS: 3025 (Part 17): 1984 Reff.2017
06	COD	mg/L	250	3.08	APHA 23 rd ed. 2017,5220 B
07	BOD	mg/L	30	Nil	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	10	1.2	IS: 3025 (Part 39): 1991 Reff.2019
09	Chloride	mg/L	-	10.16	IS:3025 (Part 32): 1988 Reff.2019
10	Sulphate	mg/L	-	6.80	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	0.64	IS: 3025 (Part 34): 1988 Reff.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Reff.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Reff.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	1.5	0.01	APHA 23 rd ed. 2017,4500F-.D
18	Bio Assay Test	%	-	96	IS: 6582 (Part 2): 2001 Reff.2019

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


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TEST REPORT / CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	240/7
		ISSUE DATE:	07/06/2021
SAMPLE DESCRIPTION:	Water Sample (Equalization Tank)	LAB ID:	119/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	5 Liter
SAMPLING DATE:	28/05/2021	SAMPLING TIME:	11:15 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21052812
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME:	10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE:	07/06/2021


RESULT TABLE:

SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	pH	pH Unit	6.18	IS: 3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	34	IS: 3025 (Part 9): 1984 Reff. 2017
03	Color	Hazen	29	APHA 23 rd ed.2017,2120-C
04	Total Dissolved Solids	mg/L	478	IS: 3025 (Part 16): 1984 Reff. 2017
05	Suspended Solids	mg/L	4.7	IS: 3025 (Part 17): 1984 Reff. 2017
06	Chemical Oxygen Demand	mg/L	66.2	APHA 23 rd ed. 2017,5220 B
07	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	17.7	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	1.8	IS: 3025 (Part 39): 1991 Reff. 2019
09	Chloride	mg/L	31.07	IS: 3025 (Part 32): 1988 Reff 2019
10	Sulphate	mg/L	24.05	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	1.4	IS: 3025 (Part 34): 1988 Reff. 2019
12	Phenolic Compound	mg/L	BDL	IS: 3025 (Part 43): 1992 Reff. 2019
13	Cyanides	mg/L	NIL	IS: 3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	<0.03	IS: 3025 (Part 52): 2003 Reff. 2019
16	Sulphides	mg/L	BDL	IS: 3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	0.18	APHA23 rd ed.2017,4500F-D

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.


AUTHORISED SIGNATORY:
(SURESH MORADIA)


PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT / CERTIFICATE



ISO 9001 : 2015
ISO 14001 : 2015
OH&S 45001 : 2018

EARTH CARE

ENVIRO SOLUTIONS PVT. LTD.

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POLLUTION CONTROL CONSULTANTS, AUDITOR & ENGINEERS

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E-mail : office@earthcare.org.in / lab@earthcare.org.in / info@earthcare.org.in

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO:	240/8
		ISSUE DATE:	07/06/2021
SAMPLE DESCRIPTION:	Water Sample (Final Outlet to ZLD)	LAB ID:	120/5
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	5 Liter
SAMPLING DATE:	28/05/2021	SAMPLING TIME:	11:34 am
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21052813
SAMPLING METHOD:	EESPL/SOP/WATER/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME:	10:47 am
TEST START DATE:	29/05/2021	TEST COMPLETION DATE:	07/06/2021

RESULT TABLE:

SR. NO:	PARAMETER	UNIT	PERMISSIBLE LIMIT	RESULT	TEST METHOD
01	pH	pH Unit	6.5 to 8.5	7.26	IS:3025 (Part 11): 1983 Reff.2017
02	Temperature	°C	40	30	IS: 3025 (Part 9): 1984 Reff.2017
03	Color	Hazen	100	18	IS: 3025 (Part 4): 1991 Reff.2017
04	Total Dissolved Solids	mg/L	-	32	IS: 3025 (Part 16): 1984 Reff.2019
05	Suspended Solids	mg/L	100	1.2	IS: 3025 (Part 17): 1984 Reff.2017
06	Chemical Oxygen Demand	mg/L	250	2.34	APHA 23 rd ed. 2017,5220 B
07	Biochemical Oxygen Demand (3 days at 27°C)	mg/L	30	Nil	IS: 3025 (Part 44): 1993 Reff.2019
08	Oil & Grease	mg/L	10	0.98	IS: 3025 (Part 39): 1991 Reff.2019
09	Chloride	mg/L	-	9.17	IS:3025 (Part 32): 1988 Reff.2019
10	Sulphate	mg/L	-	5.56	APHA 23 rd ed. 2017,4500-SO42-C
11	Ammonical Nitrogen	mg/L	50	0.73	IS: 3025 (Part 34): 1988 Reff.2019
12	Phenolic Compound	mg/L	1.0	BDL	IS: 3025 (Part 43): 1992 Reff.2019
13	Cyanides	mg/L	0.2	NIL	IS:3025 (Part 27): 1986 Reff.1998
14	Hexavalent Chromium	mg/L	0.1	<0.03	APHA 23 rd ed. 2017,3500 Cr+6/B
15	Total Chromium	mg/L	2.0	<0.03	IS: 3025 (Part 52): 2003 Reff.2019
16	Sulphides	mg/L	2.0	BDL	IS:3025 (Part 29): 1986 Reff.2019
17	Fluoride	mg/L	1.5	0.02	APHA 23 rd ed. 2017,4500F-D
18	Bio Assay Test	%	-	97	IS: 6582 (Part 2): 2001 Reff.2019

Note: BDL: Below detection Limit

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

Suresh Moradia

AUTHORISED SIGNATORY:
(SURESH MORADIA)

Prat

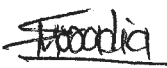

PREPARED BY:
(TECHNICAL MANAGER)

END OF TEST REPORT/CERTIFICATE

ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018**EARTH CARE**
ENVIRO SOLUTIONS PVT. LTD.**POLLUTION CONTROL CONSULTANTS, AUDITOR & ENGINEERS**31-32, Moradia House, Shiv Ashish Industrial Society-II, Opp. S.M.C. Community Hall, B/H. Raj Carrying Cargo Pvt. Ltd.,
South Zone Road, Nr. Chosath Jogani Mata Mandir, Udhna Magdalla Road, Surat - 394 210. www.earthcare.org.in
E-mail : office@earthcare.org.in / lab@earthcare.org.in / info@earthcare.org.in

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 505/17		
		ISSUE DATE: 26/12/2020		
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID:	82/12	
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	Filter Paper	
SAMPLING DATE:	23/12/2020	SAMPLING TIME:	10:00 am To 06:04 pm	
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL20122308	
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL:	Sealed	
SAMPLE RECEIVED DATE:	24/12/2020	SAMPLE RECEIVED TIME:	10:17 am	
TEST START DATE:	24/12/2020	TEST COMPLETION DATE:	25/12/2020	
AMBIENT TEMPRATURE:	MINIMUM: 27 °C	MAXIMUM: 33 °C		
RELATIVE HUMIDITY:	MINIMUM: 26 %	MAXIMUM: 37 %		
WIND DIRECTION:	SE	WIND SPEED: 10.0 Km/h		
RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.316	IS: 5182 (Part 23): 2006 Reff.2017
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.				
				
AUTHORISED SIGNATORY: (SURESH MORADIA)		PREPARED BY: (TECHNICAL MANAGER)		

END OF TEST REPORT/CERTIFICATE



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ISO :14001 : 2015
OHS : 45001 : 2018

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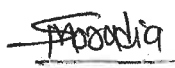



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 51/17		
		ISSUE DATE: 03/02/2021		
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID: 78/1		
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Filter Paper		
SAMPLING DATE:	23/01/2021	SAMPLING TIME: 10:12 am To 06:15 pm		
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21012314		
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed		
SAMPLE RECEIVED DATE:	25/01/2021	SAMPLE RECEIVED TIME: 10:07 am		
TEST START DATE:	25/01/2021	TEST COMPLETION DATE: 27/01/2021		
AMBIENT TEMPRATURE:	MINIMUM: 28 °C	MAXIMUM: 30 °C		
RELATIVE HUMIDITY:	MINIMUM: 30 %	MAXIMUM: 47 %		
WIND DIRECTION:	EAST	WIND SPEED: 11.0 Km/h		
RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.274	IS: 5182 (Part 23): 2006 Reff.2017
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.				
 AUTHORISED SIGNATORY: (SURESH MORADIA)			 PREPARED BY: (TECHNICAL MANAGER)	

END OF TEST REPORT/CERTIFICATE



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 ISO :14001 : 2015
 OH&S : 45001 : 2018

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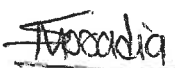

TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 87/17	
		ISSUE DATE: 24/02/2021	
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID:	25/2
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY:	Filter Paper
SAMPLING DATE:	03/02/2021	SAMPLING TIME:	10:37 am To 06:37 pm
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO:	EESPL21020314
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL:	Sealed
SAMPLE RECEIVED DATE:	04/02/2021	SAMPLE RECEIVED TIME:	10:21 am
TEST START DATE:	04/02/2021	TEST COMPLETION DATE:	05/02/2021

AMBIENT TEMPRATURE:	MINIMUM: 26 °C	MAXIMUM: 34 °C
RELATIVE HUMIDITY:	MINIMUM: 18 %	MAXIMUM: 34 %
WIND DIRECTION:	NW	WIND SPEED: 14.4 Km/h

RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.326	IS: 5182 (Part 23): 2006 Reff.2017

For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.

 AUTHORISED SIGNATORY: (SURESH MORADIA)	 PREPARED BY: (TECHNICAL MANAGER)
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END OF TEST REPORT/CERTIFICATE



ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018

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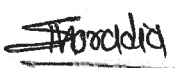



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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 136/17		
		ISSUE DATE: 30/03/2021		
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID: 78/3		
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Filter Paper		
SAMPLING DATE:	22/03/2021	SAMPLING TIME: 10:10 am To 06:10 pm		
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21032207		
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed		
SAMPLE RECEIVED DATE:	23/03/2021	SAMPLE RECEIVED TIME: 10:34 am		
TEST START DATE:	23/03/2021	TEST COMPLETION DATE: 25/03/2021		
AMBIENT TEMPERATURE:	MINIMUM: 25 °C	MAXIMUM: 37 °C		
RELATIVE HUMIDITY:	MINIMUM: 19 %	MAXIMUM: 76 %		
WIND DIRECTION:	WEST	WIND SPEED: 18.0 Km/h		
RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.426	IS: 5182 (Part 23): 2006 Reff.2017
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.				
 AUTHORISED SIGNATORY: (SURESH MORADIA)			 PREPARED BY: (TECHNICAL MANAGER)	

END OF TEST REPORT/CERTIFICATE



ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018

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TEST REPORT/CERTIFICATE

NAME & ADDRESS OF CUSTOMER: M/s. Hindusthan Chemicals Company GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 175/17		
		ISSUE DATE: 26/04/2021		
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID: 71/4		
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Filter Paper		
SAMPLING DATE:	14/04/2021	SAMPLING TIME: 10:00 am To 06:00 pm		
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21041414		
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed		
SAMPLE RECEIVED DATE:	15/04/2021	SAMPLE RECEIVED TIME: 10:19 am		
TEST START DATE:	15/04/2021	TEST COMPLETION DATE: 16/04/2021		
AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C		
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %		
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h		
RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.392	IS: 5182 (Part 23): 2006 Reff.2017
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.				
 AUTHORISED SIGNATORY: (SURESH MORADIA)		 PREPARED BY: (TECHNICAL MANAGER)		

END OF TEST REPORT/CERTIFICATE



ISO :9001 : 2015
ISO :14001 : 2015
OH&S : 45001 : 2018

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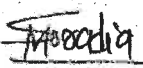

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E-mail : office@earthcare.org.in / lab@earthcare.org.in / info@earthcare.org.in

Page 13 of 14

NAME & ADDRESS OF CUSTOMER: M/s. HINDUSTHAN CHEMICALS COMPANY GIDC Industrial Estate, P.O. Olpad, Tal.: Olpad, Dist.: Surat-394540		CERTIFICATE NO: 240/13		
		ISSUE DATE: 07/06/2021		
SAMPLE DESCRIPTION:	Near NaCN Packing Area	LAB ID: 125/5		
SAMPLE COLLECTED BY:	Earth Care Enviro Solutions Pvt. Ltd.	SAMPLE QUANTITY: Filter Paper		
SAMPLING DATE:	28/05/2021	SAMPLING TIME: 10:00 am To 06:00 pm		
PROTOCOL(PURPOSE):	Monthly Monitoring	SAMPLE ID NO: EESPL21052818		
SAMPLING METHOD:	EESPL/SOP/AIR/01	PACKING/SEAL: Sealed		
SAMPLE RECEIVED DATE:	29/05/2021	SAMPLE RECEIVED TIME: 10:47 am		
TEST START DATE:	29/05/2021	TEST COMPLETION DATE: 07/06/2021		
AMBIENT TEMPERATURE:	MINIMUM: 28 °C	MAXIMUM: 32 °C		
RELATIVE HUMIDITY:	MINIMUM: 39 %	MAXIMUM: 52 %		
WIND DIRECTION:	NW	WIND SPEED: 10.8 Km/h		
RESULT TABLE:				
SR. NO:	PARAMETER	UNIT	RESULT	TEST METHOD
01	Inhalable Dust	mg/m ³	0.238	IS: 5182 (Part 23); 2006 Reff.2017
For EARTH CARE ENVIRO SOLUTIONS PVT. LTD.				
 AUTHORISED SIGNATORY: (SURESH MORADIA)			 PREPARED BY: (TECHNICAL MANAGER)	

END OF TEST REPORT/CERTIFICATE

TEST REPORT/CERTIFICATE

Annexure-16

Information for Environment Clearance of 13th March 2020

**THE TIMES OF INDIA
FRIDAY, MARCH 20, 2020**

ers quarantined stamp on their from bringing in public in view
eir hands, were de-boarded at of the coronavirus outbreak. PTI

**PUBLIC NOTICE
ENVIRONMENTAL CLEARANCE**

It is hereby informed that the Ministry of Environment, Forests and Climate Change, IA Division, Government of India, New Delhi, has accorded Environmental Clearance for Manufacturing of Sodium Cyanide and Other Cyanide based Products manufacturing unit at Plot No. 26-37,54-57,122,143, Vill: Asnabad, Tehsil: Olpad, District Surat (Gujarat) of **M/s. Hindusthan Chemicals Company** vide letter No. J-11011/466/2011-IA-II(I) dated 13/03/2020, under the provision of EIA Notification dated 14th September 2006.

Copies of Clearance letter are available with the SPCB and may also be seen at website of MoEFCC, www.envfor.nic.in

**AUTHORIZED SIGNATORY
HINDUSTHAN CHEMICALS COMPANY LTD.**

Date : 14.03.2020

**GUJARAT SAMACHAR
FRIDAY, MARCH 20, 2020**

માહિતી/૨૫૯૮/૧૯-૨૦

ગુજરાત સરકાર, ગોપીનગર

**ખબર સુચના
પર્યાવરણની મંજૂરી**

આ સાર્વજનિક જાણવામાં આવે છે કે પર્યાવરણ વન અને ક્ષયાર્થિત વેન્જ મંત્રાલય આઈ.એ. વિભાગ, ભારત સરકાર, નવી દિલ્હી દ્વારા હિન્દુસ્થાન કેમીકલ્સ કંપની, પ્લોટ નં. ૨૬-૩૭,૫૪-૫૭,૧૨૨,૧૪૩, ગ્રામ : આસનાબાદ, તા : ઓલપાડ, જિલ્લો સુરત (ગુજરાત) ખાતે સાયનાઈડ અને સાયનાઈડ બેઝ પ્રોડક્ટ્સ માટેનો પર્યાવરણીય મંજૂરી તારીખ ૧૩/૦૩/૨૦૨૦ ના પત્ર ક્રમાંક - J-11011/466/2011-IA-II(I) દ્વારા ઈ.આઈ.એ. નોટીફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ જોગવાઈ હેઠળ આપેલ છે.

ઉપરોક્ત પત્ર નો નકલ સ્ટેટ પોલ્યુશન કન્ટ્રોલ બોર્ડ ઉપરાંત MoEFCC ની વેબસાઈટ <http://envfor.nic.in> ઉપર ઉપલબ્ધ છે.

**AUTHORIZED SIGNATORY
HINDUSTHAN CHEMICALS COMPANY LTD.**

Date : 14.03.2020




આંચલ ઈન્ડિયા નેચરલ ગેસ કોર્પોરેશન લિમિટેડ

એ સ્ટે એ પ્રો વી ફો: અ

Annexure-17**LIST OF HAZARDOUS CHEMICAL STORE & USED**

Sr. No.	Hazardous Chemical List	Unit	Received /Store	Used/Consumption
1	Ammonia	M.T	2019.625	2023.5
2	Aniline	M.T	0	0
3	Benzaldehyde	M.T	501.38	529.98
4	Liquid Cl2 gas	M.T	0	0
5	Caustic Potash Lye	D.M.T	43.757	43.757
6	Caustic Soda Lye	D.M.T	2344.076	2423.318
7	HCl	M.T	18.35	14
8	H2SO4 98%	M.T	1061.25	1046.37
9	MPBAD	M.T	94.95	94.275
10	Cyclohexanone Commercial	M.T	11.4	33.77
11	Pentanone	M.T	16	16.2
12	Acetic Acid	Kg	1000	1600
13	Toluene	Ltr	8140	6710
14	Industrial Solvent	M.T	2964.625	6120
15	H2O2	Kg	0	500
16	Phosphoric Acid	M.T	9000	9400
17	Sodium Hypochloride	M.T	16	15.8

CER Activities Letter

		સત્યમેવ જયતે ઓલપાડ ગ્રુપ ગ્રામ પંચાયત મુ.પો- ઓલપાડ, તા- ઓલપાડ, જી. સુરત-૩૯૪૫૪૦. oipad.group1173@gmail.com	ફોન નં. : ૨૨૧૫૭૩
જા.નં./ /૨૦૨૦- ૨૦૨૧			તારીખ :- ૧/૧૨/૨૦૨૦
પ્રતિ, શ્રી મેનેજર સાહેબશ્રી ડિલ્હુસ્તાન કેમીકલ્સ કંપની અસ્નાબાદ તા.ઓલપાડ			
વિષય :- ઓલપાડ ગ્રુપ ગ્રામ પંચાયત વિસ્તારમાં રોડ ની બન્ને બાજુ સ્ટ્રીટલાઇટ-પોલ નાંખવાના કામ અર્થે લોકડાળો આપવા બાબત..			
બનસ્કાર ,			
સવિનય સહ ઉપરોક્ત વિષય બાબતે આપશ્રી સાહેબશ્રીને જણાવવાનું કે હાલ ઓલપાડ ગ્રુપ ગ્રામ પંચાયત વિસ્તારમાં માનનીય ઘાસસભ્યશ્રી મુકેશભાઈ ઝેડ.પટેલ નાં માર્ગદર્શન હેઠળ ગ્રામ પંચાયત ની ટીમ દ્વારા ગામમાં ખુબ સારો એવો વિકાસ કરી રહ્યા છે. અને ગ્રામ પંચાયત ઓલપાડ દ્વારા આપશ્રી પાસે ઓલપાડ પશ્ચિમ સીનેમા થી પેટ્રોલ પંપ સુધી રોડ ની બન્ને બાજુ સ્ટ્રીટ લાઇટ નાં પોલ નાંખવાની માંગણી કરવામાં આવેલ હતી અને ઓલપાડ ગામમાં થતા વિકાસ માં સહભાગીદાર થવા પત્ર લખેલ જે પત્રનાં સંદર્ભ માં આપશ્રીની કંપની દ્વારા ઓલપાડ ગ્રુપ ગ્રામ પંચાયત વિસ્તારમાં રોડ ની બન્ને બાજુ સ્ટ્રીટ લાઇટનાં પોલ નાંખવા માટે પોલની ખરીદી માટે રૂપિયા ૩,૦૦,૦૦૦/- ની રકમ નુ અનુદાન (લોકડાળો) ચેક દ્વારા ગ્રામ પંચાયત કચેરી ને આપવામાં આવેલ છે. જે બદલ ગ્રામ પંચાયત નાં સરપંચશ્રી તરીકે ઉપ-સરપંચશ્રી , ગ્રામ પંચાયત નાં સભ્યશ્રીઓ તથા ગ્રામ જનો વતી આપશ્રીનો તથા આપશ્રીની કંપનીનો ગ્રામ પંચાયત ખુબ ખુબ આભાર માને છે.			
			 ઓલપાડ ગ્રુપ ગ્રામ પંચાયત
		સ્વસ્થ ઓલપાડ...	સ્વસ્થ ઓલપાડ...

EC Intimation to Panchayat

 **HINDUSTHAN CHEMICALS COMPANY**
(An enterprise of THE HINDUSTHAN GROUP) CIN: U93000WB1998PLC086303
GIDC INDUSTRIAL ESTATE OLPAD 394 540, DIST. SURAT GUJARAT (INDIA) Website: www.hcc-cyanides.com
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F.65:TECH:HCC:2020-21/

The Sarpanch,
Olpad Group Gram Panchayat,
Olpad,
Dist. Surat 394540

Dear Sir,

We are hereby submitting letter No.F.No.J-11-11/466/2011-IA II(I) dtd.13.03.2020 received from Ministry of Environment & Forest, and Climate Change (IA-II Section) for your information.

Thanking you,

Yours faithfully,
For Hindusthan Chemicals Company


(Narinder Rathore)
Dy. General Manager (Personnel)

Encl : a/a.