



**Bharat
RASAYAN LIMITED**

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

Ref. BRL-Dahej/DIR/MoEF/2023/11

Date: 30th June, 2023

To,

Scientific C,

Integrated Regional Office,

Ministry of Environment & Forests

Aranya Bhavan, Sector 10,

Gandhinagar- 382 010

SUB: Submission of six monthly EC Compliance Report for the Period December-2022 to May-2023

Ref.: EC granted vide letter F. No. J-11011/961/2008-1A-II(I) dated 19th October, 2020

Dear Sir,

With Reference to above subject, we are submitting herewith the Six-month EC compliance Report for the period December-2022 to May-2023. Said compliance report is uploaded on Parivesh portal also.

Please find the above in order and acknowledge receipt.

Thanking You,

Yours faithfully,

For **BHARAT RASAYAN LIMITED**

(OLD NAME: SIRIS CROP SCIENCE LTD)

Ajay Gupta

(Director Operation)

Copy to:

1. The Secretary, Department of Environment and Forest, Govt. Of Gujarat, Secretariat, Gandhinagar - 382010.
2. The Chairman, Central Pollution Control board, Parivesh Bhavan, CBD-Cum Office Complex, East Arjun Nagar, New Delhi - 110032.
3. Monitoring Cell, Ministry Of Environment and Forest, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector - 10A, Gandhinagar - 382010.

CIN : L24119DL1989PLC036264

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EC COMPLIANCE REPORT

(Dec 2022 to May 2023)

For

**M/s. Bharat Rasayan Limited (Unit-II)
(Manufacturing of Agrochemicals &
Agrochemicals Intermediate)**

Plot No. 42/4, Amod Road, Dahej- I GIDC Industrial Estate,
District-Bharuch, Gujarat, India.

Submitted to:

The Ministry of Environment, Forests & Climate Change

Regional Office, Western Region, "Kendriya
Paryavaran Bhavan", Link Road No.3,
E-5, Ravishankar Nagar, Bhopal - 462
016, State: M.P, India.

Sr. No.	Content	Page no.
1	A - MONITORING REPORT - DATA SHEET	3
2	EC Compliance Report	8
3	Annexure 1 -Compliance report of Environmental Clearance	8
4	Annexure 2 -Compliance report of CC&A/CTO and its Amendment	81
5	Annexure 3 -COPY OF EC, CC&A/CTO & its Amendment	97
6	Annexure 4 -Annual Return - Form - 4 (2022-2023)	126
7	Annexure 5 -Environment Statement - Form - 5 (2022-2023)	139
8	Annexure 6 - Analysis report of the stack monitoring/AAQ/Noise monitoring	158

A - MONITORING REPORT - DATA SHEET

Monitoring the Implementation of Environmental Safeguards

Ministry of Environment, Forests & Climate Change
Regional Office (W), Bhopal

PART - 1

From: 01.12.2022 to 31.05.2023

1	Project Type : River-Valley / Mining Industry / Thermal / Nuclear / other (Specify)	:	Agrochemicals & their Intermediates
2	Name of the Project	:	Expansion of Agrochemicals & their Intermediates at Existing unit M/s. Bharat Rasayan Limited (Unit-II).
3	Clearance Letter(s)/ OM No. & Date	:	J-11011/961/2008-IA-II(I) dated 19th October, 2020
4	Location		
	a]. District (s)	:	Bharuch
	b]. State (s)	:	Gujarat
	c]. Latitude / Longitude	:	21° 43' 25.01" N / 72° 35' 33.9" E
5	Address for Correspondence	:	Plot No. 42/4, GIDC Estate, Dahej, Tal: Vagra, Dist. Bharuch, Gujarat.
	a]. Address of Concerned Project Chief Engineer With Pin code & Telephone / Telex / Fax Numbers.	:	Mr Ajay Gupta Mobile No.: 7046500020 E-mail: ajay.gupta@bharatgroup.co.in
	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr Ajay Gupta Mobile No.: 7046500020
6	Salient Features		
	a]. Of the Project	:	As detailed below
	Components		Proposed Scenario
	EC No.		J-11011/961/2008-IA-II(I)
	Environmental Clearance accorded for -		Product name attached.
	Total Power Requirement		7000 KVA
	Source of Power		DGVCL
	Fresh Water requirement		3122 KLD
	Source of Water Supply		GIDC water Supply
	Wastewater Generation		Industrial: 1815 m ³ /day [Low COD and Low TDS (865 m ³ /day), Cooling Tower blow down (150 m ³ /day), High COD, high TDS effluent (800 m ³ /day)]

EC Compliance Report

		Domestic: 100 m ³ /day
	Process Emissions	HCl, SO ₂ , HBr, Br ₂ , H ₂ S, NO _x , NH ₃ , VOC, Cl ₂ , DMA, PM and NaCN
	Flue Gas Emission	PM, SO ₂ , NO _x
	Fuel Type	Natural Gas Or Furnace Oil Or Coal & HSD
	Fuel Requirement	Natural Gas: 80000 SM ³ / day OR Furnace Oil: 90 MT/Day OR Coal: 200 MT/Day & HSD: 17 KL/Day
	Man power	Existing : 350 Nos. direct employees + 250 Nos. indirect employees
	b]. Of the Environmental Management Plans	: As follows.
Sr. No.	Activity	Status
1	Formulation of EHS cell Constitutes EHS in charge, ETP super visor and operators, Lab chemist and assistants	EHS cell consists of EHS In charge, ETP super visor and operators, Lab chemist and assistants.
2	For Air Environment Management - To monitor the ambient air quality parameters and flue & process gas emissions within premises and also in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken. - Work place monitoring to be carried out periodically to check fugitive emissions, if any. - To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition. - To follow proper loading and unloading practices to minimize dusting - To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation	- Company maintains its own records and monitors the Ambient air and flue gas emission within premises periodically. Monitoring of ambient air & flue gas analysis is done by Siddhi Green Excellence Pvt Ltd., Ankleshwar. - Work place monitoring to be carried out periodically. Analysis report of the same has been attached herewith. - Unit has developed & maintained green belt area. - Unit is having closed system for loading and unloading of chemicals. - Unit is maintaining records for the fuel consumption, start-up time and duration of boiler operation towards energy conservation
3	For Water Environment Management - To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation - Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained. - To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CC&A of GPCB - The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden break-down.	- Reuse and recycling options are being investigated together with feasibility of rainwater harvesting. - Unit is maintaining records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics. - The adequacy and efficiency of ETP is maintained well and the effluent is treated appropriately at all the stages. It is ensured that the treated effluent meets specified norms of as specified in CC&A of GPCB. - The effluent collection and discharge

EC Compliance Report

		• Proper house-keeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains.	drainages, effluent handling and treatment system are maintained and regularly Monitored to prevent leakages or sudden break-down by preventive maintenance of all ETP units is taken periodically by taking appropriate proactive actions. • Good house-keeping practices have been implemented by the unit to prevent spillages and • Contaminated surface runoff going to storm water drains.
4	For Hazardous / Non-hazardous waste management • Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. • Proper signboards to be provided at relevant places. • All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules - 2003 to be followed and adhered with. • The transportation of hazardous waste to the TSDF Site to be as per the guidelines and accompanied with Form-9. • Monthly records of generation, storage and disposal of hazardous waste should be maintained in a record register as per the format of Form-3 as per amended Hazardous Waste rules - 2003 and annual returns of disposal to be submitted to SPCB in prescribed form - 4 and form - 3.	• Appropriate storage and handling arrangements for all the hazardous waste are provided as per the conditions specified in the authorization granted by GPCB. • Signboards are provided at relevant places. • Unit is following all the applicable regulatory procedures as per the amended Hazardous Waste Management & Handling Rules - 2016. • Unit is following guidelines for transportation of hazardous waste to all the TSDF & CHWIF and is accompanied with form-10. • Monthly records of generation, storage and disposal of hazardous waste are maintained in a record register as per the format of Form 3 as per amended Hazardous Waste rules - 2016 and annual returns of disposal of all the hazardous waste are Submitted to GPCB in prescribed forms-4 and form-3. Acknowledgment copy of the same has been attached herewith.	
7	Break Up of the Project Area	:	Unit is located at GIDC Industrial Estate, Dahej
	a]. Submergence area : forest & Non-forest		
	b]. Others		
8	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Not applicable since unit is located at GIDC Industrial Estate, Dahej

EC Compliance Report

	a]. SC , ST / Advises	:	---																																
	b]. Others	:	---																																
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	---																																
9	Financial Details	:																																	
	a]. Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Rs. 200 Crore (For Proposed Expansion only)																																
	b]. Allocation made for environmental Management plans with item wise and year wise break-up.	:	As follows																																
	<table border="1"> <thead> <tr> <th>Sr. No.</th><th>Particulars</th><th>Recurring Cost Per Annum [Rs. In lakh]</th><th>Capital Cost [Rs. In lakh]</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Air Pollution Control</td><td>70</td><td>150</td></tr> <tr> <td>2.</td><td>Water Pollution Control</td><td>2200</td><td>1100</td></tr> <tr> <td>3.</td><td>Noise Pollution Control</td><td>0.1</td><td>5</td></tr> <tr> <td>4.</td><td>Environment Monitoring & Management</td><td>20</td><td>150</td></tr> <tr> <td>5.</td><td>Occupational Health & Safety</td><td>20</td><td>50</td></tr> <tr> <td>6.</td><td>Green Belt development & maintenance</td><td>10</td><td>50</td></tr> <tr> <td>7.</td><td>Solid waste management</td><td>400</td><td>95</td></tr> </tbody> </table>			Sr. No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost [Rs. In lakh]	1.	Air Pollution Control	70	150	2.	Water Pollution Control	2200	1100	3.	Noise Pollution Control	0.1	5	4.	Environment Monitoring & Management	20	150	5.	Occupational Health & Safety	20	50	6.	Green Belt development & maintenance	10	50	7.	Solid waste management	400	95
Sr. No.	Particulars	Recurring Cost Per Annum [Rs. In lakh]	Capital Cost [Rs. In lakh]																																
1.	Air Pollution Control	70	150																																
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4.	Environment Monitoring & Management	20	150																																
5.	Occupational Health & Safety	20	50																																
6.	Green Belt development & maintenance	10	50																																
7.	Solid waste management	400	95																																
	c]. Benefit cost ratio / Internal rate of return and the year of assessment	:	CTE No has been issued by GPCB; CTE No:15590 Dated: 09/08/2019 and applied for Partial CTO vide application no. 280829 dated 18/05/2023																																
	d]. Whether (c) includes the cost of environmental management as shown in the above	:	Yes																																
	e]. Actual expenditure incurred on the project so far	:	--																																
	f]. Actual expenditure incurred on the environment management so far	:	--																																
10	Forest land Requirement	:	Not applicable since unit is located at GIDC Industrial Estate, Dahej																																
	a]. The status of approval for diversion of forest land for non-forestry use	:	--																																
	b]. The Status of clearing fell in	:	--																																
	c]. The status of compensatory afforestation, if any	:	--																																
	d]. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:	--																																
11	The status of clear felling in non-forest areas	:	Not applicable since unit is located at GIDC Industrial																																

EC Compliance Report

	(Such as submergence area of reservoir, approach roads), if any with quantitative information.		Estate, Dahej
12	Status of construction	:	
	a]. Date of commencement (Actual and / or Planned).	:	20th November, 2020
	b]. Date of completion (Actual and / or Planned)	:	Partial Project is completed on 31/04/2023 and 100 % will be completed on or before 31/12/2023
13	Reasons for the delay if the project is yet to start	:	Partial Project is completed. Project is delayed due to Corona Pandemic.
14	Dates of site visits		
	a]. The dates on which the project was monitored by the Regional Office on Previous occasions, if any	:	- Team of EAC members from MOEF New Delhi or RO MOEF Bhopal or RO GPCB visited site - RO GPCB Bharuch visited site on 17/01/2023 - IRO, MoEF&CC Gandhinagar visited site on 13/03/2023 - RO GPCB Bharuch Visited site on 31/03/2023 - RO GPCB Bharuch Visited site on 15/06/2023
	b]. Date of site visit for this monitoring project	:	
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	:	No correspondence yet
	(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently.)	:	--

Annexure-I Half yearly EC compliance report from Dec 2022 to May 2023

Compliance Report For Stipulated Conditions Of Environmental Clearance EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020																	
Conditions										Compliance Status							
1	This has reference to your online proposal No. IA/GJ/IND2/114039/2008 dated 7 th September 2019 and 7 th July 2020 for environmental clearance to the above mentioned project.									Noted.							
2	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of agrochemicals and their intermediates manufacturing unit from 12,300 TPA to 29,200 TPA by M/s. Bharat Rasayan Limited (Unit-II) in an area of 105106.75 sqm. Located at plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, Gujarat									Noted.							
3	The details of existing and proposed products and capacity are as under:-									Complied Unit manufactures product as per CTO and comply with the condition.							
	Sr. No	Name of Product	CAS No.	Existing (TPA)	Proposed (TPA)	Total (TPA)	End use	LD50-oral (Rat) mg/kg	Remarks	Existing Production from Dec 2022 to May 2023 is herewith.							
	PRODUCTION FROM DEC 2022 TO MAY 2023																
	1.	2,4-D-Ethyl Ester	533-23-3	0	700	700	Weedicide	650 – 800	New Product	Product Name	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Total MT
										Cypermethrin technical	-	-	-	-	7.165	-	7.165
	2.	4-acetyl-2-methylbenzoic acid (AMBA)	55860-35-0	0	50	50	Intermediate	>300 (Mouse)	New Product	Diafenthiuron technical	-	-	35.61	134.57	37	34	241.18
										Diuron technical	146.57	90.15	97.23	107.67	103.83	25.71	571.16
	3.	Atrazine	1912-24-9	0	400	400	Herbicide	2220	New Product	Ethion technical	77	65	75.67	52.165	67	17.813	354.648
	4.	Azoxystrobin Technical	131860-33-8	0	200	200	Fungicide	>2000	New Product	Lambda cyhalothrin technical	57.3	75.76	53.6	66.1	20.51	9.5	282.77
	5.	Bispyribac sodium	125401-92-	0	200	200	Herbicide	2635	New Product	Metaphenoxy benzaldehyde	175.2	156.4	144.7	162.071	172.2	126.89	937.461

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status							
		salt	5							Metaphenoxy benzyl alcohol	18.125	10.075	-	35.7	45.125	15.15	124.175
6.	Butachlor Technical	23184-66-9	0	1000	1000	Herbicide	1740	New Product		Metribuzine technical	43.6	46	20.5	23	41.5	27.23	201.83
7.	Carfentraz one-ethyl	128639-02-1	0	50	50	Herbicide	5143	New Product		Phenthoate technical	38.565	46.1	31.05	20.584	5.57	0	141.869
8.	Cartap Hydrochloride	15263-52-2	0	300	300	Insecticide	250	New Product		Penoxsulam	-	-	-	-	-	3.165	3.165
										Pymetrozine	-	-	-	-	-	10.15	10.15
										Thiamethoxam technical	79.1	58.6	48.06	39.42	68.2	54	347.38
9.	Cypermethrin acid chloride (CMAC)	52314-67-7	0	2000	2000	Intermediate	>600	New Product		Tebuconazole technical 93%	13.21	7.17	-	-	-	-	20.38
										Total	648.67	555.255	506.42	641.28	568.1	323.608	
10.	Isopropyl 5-chloro-4-Methyl-2-nitrobenzoate (CMNBP)	1204518-43-3	0	100	100	Intermediate	>500	New Product									
11.	Cymoxanil Technical (98%)	57966-95-7	0	300	300	Fungicide	1100	New Product									
12.	3,6-dichloropyridazin-4-ol (DCHD)	2779-81-9	0	100	100	Intermediate	>200 (Fish)	New Product									
13.	Deltameth	52918	0	300	300	Insecticide	>5000	New									

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		rin Technical	-63-5				cide		Product	
	14.	Fenoxapro p-P-ethyl	71283 -80-2	0	200	200	Herbici de	3150 - 4000	New Product	
	15.	Fenpropat hrin Technical (90% min)	64257 -84-7	0	150	150	Insecti cide	1000 (Skin & Eye)	New Product	
	16.	Halosulfu ron- methyl	10078 4-20- 1	0	50	50	Herbici de	8866	New Product	
	17.	2-hydroxy propyloxy mine hydrochlo ride (HPOA HCl)	95059 5-72- 9	0	100	100	Interm ediate	>300 (Mouse)	New Product	
	18.	Icaridin	11951 5-38- 7	0	15	15	Insecti cide	4743	New Product	
	19.	Imibencon azole	86598 -92-7	0	100	100	Fungic ide	2800	New Product	
	20.	Isofetamid	87591 5-78- 9	0	100	100	Fungic ide	1302 - 6690	New Product	
21.	Lambda Cyhalothri c Acid	72748 -35-7	0	1000	1000	Interm ediate	980	New Product		

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
	22.	M,N,O-1,2 dimethyl-N-nitrosourea	25570 8-80-8	0	100	100	Intermediate	>500	New Product	
	23.	Paclobutrazol	76738 -62-0	0	50	50	Plant growth	1300	New Product	
	24.	Penoxsulam	21971 4-96-2	0	100	100	Herbicide	>5000	New Product	
	25.	Picoxystrobin Technical	11742 8-22-5	0	50	50	Fungicide	>5000	New Product	
	26.	Pymetrozine	12331 2-89-0	0	100	100	Insecticide	>5000	New Product	
	27.	Pyrithiobac Sodium	12334 3-16-8	0	50	50	Herbicide	3300	New Product	
	28.	Spiromesifen Technical	28359 4-90-1	0	50	50	Insecticide	>2500	New Product	
	29.	Thielfluzamide	13000 0-40-7	0	170	170	Fungicide	>6500	New Product	
30.	Thiodicarb Technical (94%)	59669 -26-0	0	150	150	Insecticide	120	New Product		

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
	31.	Thiophan ate-methyl	23564 -05-8	0	200	200	Fungic ide	6640	New Product	
	32.	Tolfenpyr ad	12955 8-76- 5	0	50	50	Insecti cide	260 - 386	New Product	
	33.	Topramez one	21063 1-68- 8	0	50	50	Herbici de	>2000	New Product	
	34.	Zeta Cypermet hrin	52315 -07-8	0	350	350	Insecti cide	>5000	New Product	
	35.	Zineb	12122 -67-7	0	200	200	Fungic ide	1850 - 8900	New Product	
	36.	Dimefluth rin Technical	27124 1-14- 6	0	15	15	Insecti cide	>2000	New Product	
	37.	Meperflut hrin Technical	91528 8-13- 0	0	8	8	Insecti cide	>2000	New Product	
	38.	Pilot products#	--	0	100	100	--	--	New Product	
	39.	Acetamipr id Technical	13541 0-20- 7	100	500	600	Insecti cide	217	Expansion	
	40.	Alpha Cypermet hrin Technical	67375 -30-8	100	300	400	Insecti cide	>2000 (Skin & Eye)	Expansion	
41.	4-acetyl-2-	10952	25	75	100	Interm	>300	Expansion		

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		methyben zamide (AMBAD)	75- 06-1				ediate	(Mouse)		
42.		Bifenthrin Technical	82657 -04-3	100	600	700	Insecti cide	>2000 (Rabbit) (Dermal)	Expansion	
43.		Chlorpyrif os-methyl Technical	5598- 13-0	100	400	500	Insecti cide	3000	Expansion	
44.		Clodinafo p Propargyl Technical	10551 2-06- 9	250	50	300	Herbici de	1392	Expansion	
45.		Cypermethrin Technical	52315 -07-8	400	800	1200	Insecti cide	7180	Expansion	
46.		Chlorimuron Ethyl Technical (95%)	90982 -32-4	10	15	25	Herbici de	4102	Expansion	
47.		Diafenthiuron Technical	80060 -09-9	300	500	800	Insecti cide	2068	Expansion	
48.		Propanil Technical	709- 98-8	50	100	150	Herbici de	367	Expansion	
49.		Diuron Technical	330- 54-1	900	300	1200	Herbici de	3400	Expansion	
50.		Difenoconazole	11944 6-68-	50	250	300	Fungic ide	1453	Expansion	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		Technical	3							
	51.	3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	13033 6-16-2	25	75	100	Intermediate	>300 (Mouse)	Expansion	
	52.	Ethion Technical	563-12-2	700	300	1000	Insecticide	1084	Expansion	
	53.	Fipronil Technical	12006 8-37-3	60	540	600	Insecticide	>2000 (Skin & Eye)	Expansion	
	54.	Fenpyroximate Technical	13409 8-61-6	15	10	25	Insecticide	245	Expansion	
	55.	Isoprothiolane Technical (96%)	50512 -35-1	100	50	150	Fungicide	1190	Expansion	
	56.	Imidacloprid Technical	13826 1-41-3	250	350	600	Insecticide	410	Expansion	
	57.	Indoxacarb Technical	14417 1-61-9	20	80	100	Insecticide	268	Expansion	
58.	Imazethapyr Technical (97%)	81335 -77-5	50	50	100	Herbicide	>5000	Expansion		

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
	59.	Lambda Cyhalothri n Technical	91465 -08-6	600	400	1000	Insecti cide	632 - 696 (Skin & Eye)	Expansion	
	60.	m- Phenoxyb enzaldehy de	39515 -51-0	2200	90	2290	Interm ediate	1222	Expansion	
	61.	Metsulfur on-methyl Technical	74223 -64-6	20	10	30	Herbici de	>5000	Expansion	
	62.	Metribuzi n Technical	21087 -64-9	300	600	900	Herbici de	1100	Expansion	
	63.	Novaluro n Technical	11671 4-46- 6	10	90	100	Insecti cide	>5000	Expansion	
	64.	Propargite Technical	2312- 35-8	25	75	100	Insecti cide	2800	Expansion	
	65.	Pendimet halin Technical	40487 -42-1	600	400	1000	Herbici de	3956	Expansion	
	66.	Phenthoat e Technical	2597- 03-7	400	100	500	Insecti cide	435	Expansion	
	67.	Permethtri n Technical	52645 -53-1	250	250	500	Insecti cide	383	Expansion	
68.	Pretilachlo	51218	100	400	500	Herbici	2200	Expansion		

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		r Technical	-49-6				de			
69.		Pyrazosulf uron-ethyl Technical (97%)	93697 -74-6	25	25	50	Herbici de	>5000	Expansion	
70.		Sulfosulfu ron Technical	14177 6-32- 1	20	30	50	Herbici de	>5000	Expansion	
71.		Tricyclazo le Technical	41814 -78-2	200	100	300	Fungic ide	250	Expansion	
72.		Transfluth rin Technical	11871 2-89- 3	60	90	150	Insecti cide	>5000	Expansion	
73.		Thiameth oxam Technical	15371 9-23- 4	600	400	1000	Insecti cide	1563	Expansion	
74.		Tebucona zole Technical (93%)	10753 4-96- 3	100	500	600	Fungic ide	1700	Expansion	
75.		Flumethri n Technical	69770 -45-2	15	15	30	Insecti cide	500 - 1000	Expansion	
76.		Imiprothri n Technical	72963 -72-5	8	12	20	Insecti cide	2400	Expansion	
77.		Metofluth	24049	4	18	22	Insecti	>2000	Expansion	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		rin Technical	4-70- 6				cide			
78.		Flumethri c Acid	88419 -72-1	15	35	50	Interm ediate	>5000	Expansion	
79.		Propoxy Ethyl Chloride	42149 -74-6	100	100	200	Interm ediate	204	Expansion	
80.		Fenvalerat e Technical	51630 -58-1	200	0	200	Insecti cide	451	No change	
81.		Hexacona zole Technical	79983 -71-4	150	0	150	Fungic ide	>2000 (Dermal)	No change	
82.		m- Phenoxyb enzyl Alcohol	13826 -35-2	400	0	400	Interm ediate	1496	No change	
83.		Myclobuta nil Technical	88671 -89-0	15	0	15	Fungic ide	1600	No change	
84.		Prallethrin Technical	23031 -36-9	25	0	25	Insecti cide	640	No change	
85.		Profenof s Technical	41198 -08-7	200	0	200	Insecti cide	358	No change	
86.		Propicon azole Technical	60207 -90-1	150	0	150	Fungic ide	1517	No change	
87.		Cloquinto	99607	50	0	50	Herbici	>2000	No change	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		cet-mexyl Technical (Safener Technical)	-70-2				de			
88.		Temephos Technical	3383- 96-8	50	0	50	Insecti cide	1000	No change	
89.		Triclopyr Technical	55335 -06-3	50	0	50	Herbici de	630	No change	
90.		Methanes ulfonamid e, N-(2- cyanophe nyl)-1,1,1- trifluoro (TSBN)	53718 -42-6	50	0	50	Interm ediate	>300 (Mouse)	No change	
91.		Amitraz Technical	33089 -61-1	60	0	60	Insecti cide	400	No change	
92.		Bromoben zene	108- 86-1	250	0	250	Interm ediate	2383	No change	
93.		Buprofezi n Technical	69327 -76-0	140	(-140)	0	Insecti cide	2198	Discontin ue	
94.		Chlorpyrif os Technical	2921- 88-2	910	(-910)	0	Insecti cide	135 - 163	Discontin ue	
95.		Dichlorvo s Technical	62- 73-7	150	(-150)	0	Insecti cide	435	Discontin ue	
96.		Glyphosat	1071-	50	(-50)	0	Herbici	>5000	Discontin	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions										Compliance Status
		e Technical	83-6				de		ue	
	97.	Paraquat Technical	4685- 14-7	43	(-43)	0	Herbici de	113	Discontin ue	
	98.	Triazopho s Technical	24017 -47-8	100	(-100)	0	Insecti cide	>2000 (skin & eye)	Discontin ue	
	Total			12300	16900	29200				
	Formulation Products									
	1.	Pesticide Formulati on (Solid)	6000	0	6000	--	--	No Change	1.	
	2.	Pesticide Formulati on (Liquid)	6000	0	6000	--	--	No Change	2.	
	Note: # Pilot products shall be carried out for the betterment of proposed products (Sr. No. 1 to 37) only. Hence, Total Pollution load from pilot products shall be disposed to common incinerator.									
4.	Existing Land Area is 105106.75 sqm. No Additional land area will be required. Industry has already developed greenbelt in an area of 33.10% i.e. 34792.00 sqm. Out of total area of the project. The estimated project Cost is Rs. 200 Crore (for expansion only) & existing investment is Rs.90.15 Crore. Total cost earmarked towards environmental pollution control measures is Rs. 16 Crore and the recurring cost (operation and maintenance) will be about Rs. 27.20 Crore per annum (for expansion only). Total employment will be of 1500 persons after expansion.									Unit has already developed greenbelt in an area of 33.10 % i.e. 34792.00 sqm. Out of total area of the project. It is a continuous process as more than 7200 plants have been planted. - Total Plant area - 105000 M2 - Total Build-up Plot area - 45714 M2 - Total Greenbelt area - 34792 M2

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status

Please see the below Photographs of Greenbelt is attached herewith



Environment Budget Allocation Sheet is given below

Sr. No.	Particulars	Capital Cost for expansion (Rs. In lakh)	Basis of cost estimation	Additional Recurring Cost Per Annum (Rs. In lakh)	Basis of cost estimation
1	Air Pollution Control	150	ESP for new boiler, Bag filter for TFH, Scrubber systems for process gas emission control, Installation of	70	Power and material consumption of APCM, manpower costs, maintenance

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
					stacks with platform and sampling arrangements, local exhaust and dust collector systems	e of APCM systems
		2	Water Pollution Control	1100	New Effluent treatment plant, MEE, Effluent drainage network for new plants, drains around plants and storages, new STP	Treatment cost, pumping costs, Discharge charges, manpower costs, power consumption, maintenance costs
		3	Noise Pollution Control	5	Acoustic enclosures for utility housing, D.G set	Noise monitoring
		4	Env. Monitoring & Manage	150	Installation of online monitoring systems, detectors,	EMS cell activities, environmental audits, compliance

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
			ment		augmenting in-house monitoring and analytical facilities, third party monitor	audits, statutory compliances, third party monitoring expenses, service and calibration of online monitoring system
		5	Occupational Health & Safety	50	Additional fire extinguishers, augmenting Fire hydrant system, PPE and augmentation / upgradation of OHC	20 Medical examinations and FMO charges, OHC expenses, safety equipment testing and services
		6	Green Belt enhancement & Maintenance	50	Filling new soil having proper composition and furnishing it with conditioners and	10 Maintaining the greenbelt by hiring agency, irrigation and fertilizer,

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status					
			ance		micronutrients & additional Plantation at green belt areas		pesticides Costs
		7	Solid waste Management	95	Augmentation of storage areas for different types of wastes in compliance with the HW rules together with necessary infrastructure and equipment for collection and transport	400	Manpower costs, transportation costs, charges for disposal at common disposal facilities
			Total	1600		2720.1	
5.	Total water requirement is 3122 m³/day of which fresh water requirement of 1512 m³/day will be met from GIDC supply. Industrial Effluent of 1815 m³/day will be treated through Effluent Treatment Plant (ETP). 150 m³/day cooling tower blow down will be treated through RO/Filtration and approx... 130 m³/day RO permeate shall be used as make up water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 800 m³/day industrial effluent will be treated through pre-treatment, stripper and MEE system. 760 m³/day MEE condensate and 865 m³/day industrial effluent shall be treated in ETP. 783 m³/day ETP treated effluent will be treated through RO, MEE and approximately 564 m³/day RO permeate and 209 m³/day MEE condensate shall be used as make up water in		Complied As we have consume water consumption less than water requirement of 3122 m3/day. Industrial effluent generation is also less than 1815 m3/day. Effluent stream are segregated into High TDS/COD, Low TDS/COD, and Domestic waste. However High TDS/COD stream has been treated in Stripper column followed by MEE and ATFD. Dilute stream having low TDS/COD has been treated in Biological system followed by MBR and Reverse Osmosis (RO) Plant. RO Permit water has been recycle in Cooling tower make up in utility. Domestic waste has been treated separately in STP plant. The details of water consumption for the period of Dec 2022 to May 2023 is provided				

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
Boiler. Treated effluent (837 m³/day) from ETP shall be passed through cartridge filter and 700 KLD shall be used for processing, APCM and washing purpose and 137 KLD shall be used as cooling tower make up Domestic effluent of 100 m³/day will be treated through Sewage treatment Plant.(STP)	below:	GIDC Water consumption from Dec-22 to May-23				
		Month	KL/Month			
		Dec-22	13525			
		Jan-23	12215			
		Feb-23	11505			
		March-23	13489			
		April-23	13888			
		May-23	12789			
		Min	11505			
		Max	13888			
		Average KL/Month	12901.833			
		Average KL/Day	430.061			
		High TDS/COD Effluent Generation Data of Dec-22 to May-23				
		Month	Total in KL	Min	Max	Avg.
				KLD		
		Dec-22	2944	73	101	95
		Jan-23	2941	48	101	95
		Feb-23	2700	88	102	96
		March-23	3020	89	110	97
		April-23	2607	59	103	87
		May-23	2623	33	118	85
		Low TDS/COD Effluent Generation Data of Dec-22 to May-23				
		Month	Total in KL	Min	Max	Avg.
				KLD		
		Dec-22	7445	171	298	240
		Jan-23	6560	139	261	212

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status					
		Feb-23	7427	202	313	265	
		March-23	7420	163	289	239	
		April-23	6861	142	288	229	
		May-23	6575	58	294	212	
		STP Effluent Generation Data for the month of Dec-22 to May-23					
		Month	TOTAL in KL	Min	Max	Avg.	
				KLD			
		Dec-22	1194	2	64	38.5	
		Jan-23	2265	11	106	46.6	
		Feb-23	960	7	59	34.3	
		March-23	956	0	72	30.8	
		April-23	1130	15	73	37.7	
		May-23	1192	9	66	38.5	
		Final Treated Effluent Discharge to GIDC from Dec-22 to May-23					
		Month	Total in KL	Min	Max	Avg.	
				KLD			
		Dec-22	679	0	96	22	
		Jan-23	632	0	135	20	
		Feb-23	0	0	0	0	
		March-23	0	0	0	0	
		April-23	0	0	0	0	
		May-23	0	0	0	0	
6.	Power requirement after expansion will be 7000 KVA including existing 25 KVA and will be met from Dakshin Gujarat Vij Company Ltd. (DGVCL). Existing unit has 2 Nos. DG set of 750 KVA capacity of each, additionally 2 Nos. DG sets of 1500 KVA Of each will be used as standby during power failure for proposed expansion. Existing 1 No. DG set of 750 KVA shall be discontinued after expansion. Stack (15	Complied					
		Power consumption for the month of Dec-22 to May-23					
		Month		KW			
		Dec-22		2099040			

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
m height) will be provided as per CPCB norms. Existing unit has Multi fuel boilers (1 No. 18 MT/h & 1 No. 12 MT/h standby) and Thermic Fluid Heaters (2 Nos.4 Lakh kcal/h each- 1 operational + 1 standby). Additionally, multi fuel boiler (1 No.25 MT/h) and Thermic Fluid Heaters (2 Nos. 4 lakh kcal/h each) will be installed. ESP shall be provided to Boilers and Bag Filter shall be continuous monitoring. Natural gas OR Furnace Oil & Coal is used as Fuel for MFBs & TFHs, HSD is used as Fuel for DG Set and same will be used after expansion.		Jan-23	1943571			
		Feb-23	1822419			
		March-23	2051830			
		April-23	1894457			
		May-23	1787599			
		Min	1787599			
		Max	2099040			
		Avg	1962263.4			
		Fuel consumption for the month of Dec-22 to May-23				
		Month	Coal (MT)	H.S.D(LTS)		
		Dec-22	1600.5	615		
		Jan-23	1454	5406		
		Feb-23	1193	980		
		March-23	1347	0		
		April-23	1242	3331		
		May-23	1206.5	486		
		Min	1193	0		
		Max	1600.5	5406		
		Average	1367.3	2066.4		
		ESP and Automatic Lime Injection System are provided with boiler, Bag filter is provided with TFH and all process vent are connected with scrubber. M/s. Siddhi Green Env. Consultancy carries third party analysis. Analysis report are attached herewith.				
		Month of Dec-22 to May-23 (Boiler Stack)				
		Parameter	Result			GPCB Norms
			Min	Max	Avg	
		PM	79	103	92.8	150 mg/Nm3

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions				Compliance Status								
		SO2		46	58	51.6	100 ppm					
		Nox		31	37	34.67	50 ppm					
		Month of Dec-22 to May-23 DG set 1,2 and 3										
		Param eter	DG set - 1 Result			DG set - 2 Result			DG set - 3 Result			GPC B Nor ms
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
		PM	72	79	76	70	76	74	71	76	74	150 mg/ Nm3
		SO2	24	30	27	22	28	25	21	29	24	100 ppm
		NOx	29	39	33	27	38	34	24	35	32	50 ppm
		Month of Dec-22 to May-23 Process Vent - 1										
		Parameter	Result			GPCB Norms						
			Min	Max	Avg							
		HCl	2.5	3.5	2.85	20 mg/Nm3						
		Cl2	0.5	0.7	0.6	5 mg/Nm3						
		HBr	BDL	BDL	BDL	5 mg/Nm3						
		BR2	BDL	BDL	BDL	2 mg/Nm3						
		BDL-Below detection limit										
		Month of Dec-22 to May-23 Process Vent - 2										
		Parameter	Result			GPCB Norms						
			Min	Max	Avg							

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status					
		H ₂ S	BDL	BDL	BDL	5 mg/Nm ³	
		VOC	BDL	BDL	BDL	-	
		BDL-Below detection limit					
		Month of Dec-22 to May-23 Process Vent - Plant B					
		Parameter	Result			GPCB Norms	
			Min	Max	Avg		
		HCl	BDL	2.1	1.0	20 mg/Nm ³	
		SO ₂	BDL	25	14.7	40 mg/Nm ³	
		H ₂ S	BDL	BDL	BDL	05 mg/Nm ³	
		BDL-Below detection limit					
		Month of Dec-22 to May-23 Process Vent Plant C					
		Parameter	Result			GPCB Norms	
			Min	Max	Avg		
		DMA	BDL	BDL	BDL	-	
		SO ₂	19	25	21.5	40 mg/Nm ³	
		HCl	1.2	2.2	1.5	20 mg/Nm ³	
		VOC	BDL	BDL	BDL	-	
		BDL-Below detection limit					
7.	The project/activity is covered under category A of item 5 (b) 'Pesticides industry and pesticide specific intermediates (excluding formulations)' of the schedule to the EIA Notification, 2006 and requires appraisal/ approval at Central level in the Ministry.	Complied Our Project is cover under category A of item 5 (b) Pesticides Industry and Pesticide specific intermediate (excluding formulations) of the schedule to the EIA notification 2006 and will took approval from MoEF only.					
8.	The TOR was granted by the Ministry vide letter dated 11 th April, 2019. Public hearing is exempted as per para7 (),Stage (3), (i) (b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site	Complied There is no mitigation pending on us.					

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status
	is located in the notified industrial area. No mitigation is pending against the proposal.	
9.	The Ministry had issued EC earlier vide letter No. No. J-11011/961/2008-IA-II(I);dated 13th July,2009 for manufacturing of agrochemicals manufacturing unit in favour of M/S. Siris Crop Science Limited, the said EC further transferred to the name of M/s. Bharat Rasayan Limited (Unit-II) on 5 th September, 2012 and amendment in EC granted for product mix change on 5th September,2012. Further, the corrigendum granted on 10th January, 2013. The Certified compliance report dated 2nd July,2019 on the compliance status of the EC condition has been forwarded by the Ministry's Regional Office at Bhopal. Further, the Regional office of the Ministry has Forwarded the Action taken report on partial complied points vide email dated 15th April, 2020. The Committee deliberated the complied report and found in order.	Complied EC had already transfer on name of M/s. Bharat Rasayan Limited, CCA from GPCB is also taken on same name, and company is operated with the same name. Certified compliance report issued by MoEF on 28th May, 2020 with 100% compliance. We have re-certified the report which issued by the IRO-Gandhinagar and received on 29th May with 23 complied, 7 are partially complied and 3 are agreed to comply by unit. After that unit has submitted the action taken report to MoEF on 24th June 2023 with respect to reply of partially complied conditions.
10.	The Proposal was earlier considered by the EAC in its meeting held during October 2019, February 2020, April 2020 & May, 2020 followed by site visit. The Sub-Committee, in its report recommended for consideration of project for grant of EC with certain actions/compliances. Based on the complete information submitted by the PP, The proposal was again considered by the EAC in its 22nd meeting held on 17-19 August, 2020 in the Ministry, wherein the project proponent and their consultant M/s. Siddhi Green Excellence Pvt. Ltd. presented the EIA/EMP report as per TOR. The committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.	Complied Ministry had issued Environment Clearance vide order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020.
11.	The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the project proponent. The EAC noted that Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no	Complied Our Project was submitted by NABET accredited consultancy M/s. Siddhi Green Excellence Private Limited- Ankleshwar.

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status
	information has suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.	
12.	The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environment concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. Additional information submitted by the project proponent to be satisfactory and addressing the concerns of the committee. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.	Complied Our EIA/EMP report is in compliance of the TOR issued for the project.
13.	The environmental clearance granted to the project/activity is strictly under the provision of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate Legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.	Noted
14.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of agrochemicals and their intermediates manufacturing	Noted, and agreed with terms & Conditions

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
	unit from 12,300 TPA to 29,200 TPA by M/s Bharat Rasayan Limited (Unit-II), Located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, Gujarat, under the provision of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as Under:					
A.	SPECIFIC CONDITION :					
(i)	The Sub- Committee of EAC has visited the Unit and suggested certain actions/compliances. The Project Proponent shall implement all the recommendations of the Sub-Committee w.r.t. control of emission, layout design, risk assessment & its mitigation measures. The Committee,after deliberation, also recommended that the layout of the project shall be audited by reputed Organization to safeguard of the environment. The audited report shall be submitted before the EAC/Ministry within 6 months.	Noted				
(ii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All th recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented	Complied				
		CONSTRUCTION & OPERATION STAGE POTENTIAL IMPACTS & MITIGATIVE MEASURES				
		Environmental Components	Potential Impacts	Sources of Impact	Mitigative Measure	Status
		Water Quality	Deteriorat ion of water quality	Constructio n activity & abstraction of water for construction requirement and sanitation in housing for workers.	Proper management of surface water runoff is made. Effluent treatment plant (ETP)	Unit had installed 200 + 200 KLD + 350 KLD MEE-Stripper & ATFD and 715 KLD of Dilute stream treatment facility consist full fledge ETP, MBR followed by RO

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
				Discharge of process effluents, sewage and utility wastewater		plant. Discharge of treated effluent to GIDC drain. Discharge standards specified by authorities are meet to discharge criteria.
		Air Quality	Increase in SO ₂ , NO _X , SPM & HCl concentrations in ambient air	Process emissions, Fugitive emissions & Utility stack emissions	Control equipment for fugitive emissions Adequate stack heights & APCE	No remarkable increase in GLCs. NAAQ Standards are met Minor adverse impacts on ambient air quality
		Socio-Economic	Overall growth & development of area, increased employment, improvement in infrastruc	Project activities	General area planning in advance by GIDC and classified as notified industrial estate by GIDC	Beneficial change

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status			
			ture and growth of downstream industries		
		Terrestrial Ecology	Minor loss of habitat-flora & fauna, loss of agricultural land	Project activities	Green belt Proper management of solid waste
		Noise	Increased noise level	Project operation	Noise abatement at generation point & green belt before receptor
		Infrastructure & Services	Improved communication, transport, housing, educational & medical facilities	Project	Development has been gradual
					Beneficial impact

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status																																
		Environmental Hazards	Risk to environment & neighboring population	Handling and storage of chemicals, solvents & fuels	On site & off site Disaster management plan & Safe practices	No impact																												
(iii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensure within 03 years for existing as well as expansionproject and afterwards no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.	Noted Unit already maintain ZLD on trial since Feb-23. There is no discharge since 01 st Feb 2023.																																
(iv)	Total fresh water requirement shall not exceed 1512 cum/day, proposed to be met from GIDC. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system	Complied Rain water harvesting system has been installed & put in operation. <table><tr><td rowspan="2">Old RMS</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr><tr><td>(50Mx50M)</td><td>2500</td><td>1875</td></tr><tr><td rowspan="2">New RMS</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr><tr><td>(50Mx26M)</td><td>1300</td><td>975</td></tr><tr><td rowspan="2">New Admin</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr><tr><td>(20Mx20M)</td><td>400</td><td>300</td></tr><tr><td rowspan="2">Main Gate /OHC/Bath room</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr><tr><td>(30Mx15M)</td><td>450</td><td>337.5</td></tr></table> Note: Considering 30 inch rain per year					Old RMS	AREA	M2	Water Harvest in KL	(50Mx50M)	2500	1875	New RMS	AREA	M2	Water Harvest in KL	(50Mx26M)	1300	975	New Admin	AREA	M2	Water Harvest in KL	(20Mx20M)	400	300	Main Gate /OHC/Bath room	AREA	M2	Water Harvest in KL	(30Mx15M)	450	337.5
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Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status

Photographs Of Rain Water harvesting System



(v) As proposed 0.75 % of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR	In accordance with MoEF&CC's OM dated 01/05/2018 regarding "Corporate Environment Responsibility" (CER), Brownfield projects having investment >100 crores have to contribute 0.75% of the Capital investment. Accordingly, proponent has committed to allocated to Rs.1.5 crores for CER activities to be conducted. <table border="1"> <thead> <tr> <th>Sr. no.</th><th>CER activities done by M/s. Bharat Rasayan Limited</th></tr> </thead> <tbody> <tr> <td></td><td>Infrastructure</td></tr> <tr> <td>1</td><td>Tree plantation in Dahej-Bharuch Highway and Amleshwar School</td></tr> <tr> <td>2</td><td>Provided steel barricade from Dahej Crossing to Dahej Panchayat</td></tr> <tr> <td>3</td><td>Donation to Bharuch collector under the scheme My liveable Ankleshwar/Bharuch</td></tr> <tr> <td>4</td><td>Provided Solar light at Amleshwar School</td></tr> <tr> <td>5</td><td>Room repairing and terrace IPS of Sadanand Vidhyamandir, Amleshwar</td></tr> <tr> <td>6</td><td>Renovation of 5 house in Tribal area of Dahej village</td></tr> <tr> <td></td><td>Education and Training</td></tr> <tr> <td>7</td><td>Teacher salary of Shri. P J Chhada Vidhyalaya, Dahej and Sanskar Vidhyalay Dahej</td></tr> <tr> <td></td><td>Health</td></tr> <tr> <td>8</td><td>Various activities to help the community during Covid-19</td></tr> <tr> <td>9</td><td>Installed Oxygen Plant at CHC, Gadkhhol</td></tr> <tr> <td>10</td><td>Donation to CM relief fund during Corona Pandemic</td></tr> <tr> <td></td><td>Amenities and sanitation</td></tr> <tr> <td>11</td><td>3 computer set provide in SP office Bharuch 1 computer set provided in Mamlatdar and Executive Magistrate Kacheri, Vagra</td></tr> <tr> <td>12</td><td>Distribution of Eco-friendly stove at Sadanand Vidhyamandir, Amleshwar Village</td></tr> <tr> <td>13</td><td>Contributed in the auspicious occasion of Samuh Lagna held at Bhutnath temple</td></tr> </tbody> </table>	Sr. no.	CER activities done by M/s. Bharat Rasayan Limited		Infrastructure	1	Tree plantation in Dahej-Bharuch Highway and Amleshwar School	2	Provided steel barricade from Dahej Crossing to Dahej Panchayat	3	Donation to Bharuch collector under the scheme My liveable Ankleshwar/Bharuch	4	Provided Solar light at Amleshwar School	5	Room repairing and terrace IPS of Sadanand Vidhyamandir, Amleshwar	6	Renovation of 5 house in Tribal area of Dahej village		Education and Training	7	Teacher salary of Shri. P J Chhada Vidhyalaya, Dahej and Sanskar Vidhyalay Dahej		Health	8	Various activities to help the community during Covid-19	9	Installed Oxygen Plant at CHC, Gadkhhol	10	Donation to CM relief fund during Corona Pandemic		Amenities and sanitation	11	3 computer set provide in SP office Bharuch 1 computer set provided in Mamlatdar and Executive Magistrate Kacheri, Vagra	12	Distribution of Eco-friendly stove at Sadanand Vidhyamandir, Amleshwar Village	13	Contributed in the auspicious occasion of Samuh Lagna held at Bhutnath temple
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(vi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be	Complied Acoustic Enclosures has provided with DG set for controlling the noise pollution.																																				

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
provided to DG set for controlling the noise pollution.	
(vii) Continuous online (24*7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Complied. For Existing Operating Continuous On line (24*7) monitoring of treated water Discharge from plant is being done and transmitted online data to CPCB/GPCB server. Other Conditions will be fulfilled when ZLD will be followed.  

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
(viii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic Compounds (VOCs)/Fugitive emissions shall be Controlled at 99.9975 with effective chillers/modern technology.	Complied We have provided two stage condenser system for the process vessels (primary condenser with cooling water and secondary condenser with chilled brine) where solvent recovery operations are carried out. All the solvent tanks are having breather valve and tank vents and condensers are connected to the chillers. All the solvent operations are been in closed loop to prevent losses. Further to control fugitive emissions, we have installed pumps with Carbon phased Mechanical seals with O ring and monitoring the Total VOCs with ION Science meter. We have been provided Chilled brine based condensers. 

Form No. 37 are also attached herewith:

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

Register Containing particulars of monitoring of working environment required under Section-7
1. Name of the Department / Plant: A(2)(e)
2. Raw Materials, by Products and finished products involved in the process: Plant - A

3. Particulars of Sampling

Sr. No.	Location monitored	Identified Contaminant	Sampling Instrument used	Number of Samples taken	Range	Average value
01	plant A	chlorine	Gas Detector	05 times	0.5 ppm	0.5 ppm
02	" "	Hydrogen	" "	05 times	0.5 ppm	0.5 ppm
03	" "	Sulphur	" "	05 times	0.5 ppm	0.5 ppm
04	" "	Hydrochloric acid	" "	05 times	0.5 ppm	0.5 ppm
05	" "	Ammonia	" "	05 times	0.5 ppm	0.5 ppm

Date: 12-01-2024
Signature: [Signature]
Name: [Name]

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

Register Containing particulars of monitoring of working environment required under Section-7
1. Name of the Department / Plant: A(2)(e)
2. Raw Materials, by Products and finished products involved in the process: Plant - A

3. Particulars of Sampling

Sr. No.	Location monitored	Identified Contaminant	Sampling Instrument used	Number of Samples taken	Range	Average value
01	plant A	Ammonia	Gas Detector	05 times	0.5 ppm	0.5 ppm

Date: 12-01-2024
Signature: [Signature]
Name: [Name]

Conditions

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

Register Containing particular of monitoring of working environment required under Section-7

1. Name of the Department / Plant A2(2)(e)

2. Raw Materials, by Products and finished products involved in the process. plant-B

3. Particulars of Sampling 1) H₂ 2) SO₂ 3) DMF

[illegible]

ફોર્મ નંબર. ૩૭
જા. ૧૨-બી મુખબ
પ્રદુષણ નીવારણ અંગેનું ૨૭૨૨૨

TWA concentrations/Ac given in Second Schedule	Reference Method	Number of Workers exposed at the location being monitored (material sheet)	Remarks	Signature person taking samples (sign to not write without sig)	Name (in block letters) new
8	9	10	11	12	13
0.8 ppm	Instrument checked	01		<u>Sh. Shrivastava</u> Assistant Manager HSE	Ketan Patil KPPD
0.8 ppm	—	01		<u>Sh. Shrivastava</u>	
1.4 ppm	—	01		<u>Sh. Shrivastava</u>	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
(ix) Occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Complied. Photograph of Occupational health given below:   Front View of Occupational Center Photograph of Ambulance   Bed for Patient Male Nurse of OHC
(x) The unit shall make the arrangement for protection of possible fire hazards during	Complied

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

manufacturing process in material handling. Fire- fighting system shall be as per the norms

Compliance Status

Unit have arrangement for Protection of possible fire hazard.
 Please, see the details of Fire and safety arrangement is attached below:
DETAILS OF FIRE AND SAFETY ARRANGEMENT FOR PROTECTION OF POSSIBLE FIRE HAZARDS.

• Details of Fire Hydrant System

Sr. No	Name Of Pump	Capacity	Head	Starting (on) water Pressure
1	Main pump	273 m3/hr	70M	5 kg/cm2
2	Diesel pump	273 m3/hr	70M	4 kg/cm2
3	jockey pump	10.8 m3/hr	70M	6 kg/cm2

• Details of EHS Equipment List

Sr. No	Equipment List	Quantity
1	Fire Escape Hydrant	47 Nos
2	Water Monitor	05 Nos
3	Water / Foam Monitor	11 Nos
4	Hose Reel Hose	51 Nos
5	Water Sprinkler system	05 Nos
6	Chemical Spill Kit	07 Nos
7	Foam Trolley	11 Nos
8	Chlorine kit (cl2)	02 nos
9	SCBA Set	15 nos
10	Foam Solution (AFFF)	5500 ltr
11	Exp. Meter (potable)	02 nos
12	Oxygen Meter (potable)	01 nos
13	VOC Meter	01 nos

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status																														
		14	Safety Net	20 nos																												
		15	Fire Blanket	20 nos																												
		16	Total D.C.P Fire Exiting.	126 nos																												
		17	Total Foam Fire Exiting.	105 nos																												
		18	Total Co2 Fire Exiting.	97 nos																												
		19	Total Fire Extinguisher in safety office	43 nos																												
		20	Total D.C.P Fire Exiting.	126 nos																												
		21	Sand Drum	22 nos																												
		Total Foam Solution Details in Plant:																														
	<table><tr><th>Sr. No.</th><th>Location</th><th>Quantity</th></tr><tr><td>1</td><td>Safety Office</td><td>1000 Ltr in stock</td></tr><tr><td>2</td><td>Plant-A</td><td>500 Ltr.</td></tr><tr><td>3</td><td>Plant-B</td><td>500 Ltr.</td></tr><tr><td>4</td><td>Plant-C</td><td>400 Ltr.</td></tr><tr><td>5</td><td>Planxt-D</td><td>800 Ltr.</td></tr><tr><td>6</td><td>Solvent Storage Area</td><td>500 Ltr.</td></tr><tr><td>7</td><td>R.M Store</td><td>200 Ltr.</td></tr></table>	Sr. No.	Location	Quantity	1	Safety Office	1000 Ltr in stock	2	Plant-A	500 Ltr.	3	Plant-B	500 Ltr.	4	Plant-C	400 Ltr.	5	Planxt-D	800 Ltr.	6	Solvent Storage Area	500 Ltr.	7	R.M Store	200 Ltr.							
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(xi)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Complied. Training record Details as Below.																														
		<table><tr><th>SR NO</th><th>Month</th><th>No. Of Safety Training</th><th>No of Participants</th><th>Total Man Hours</th></tr><tr><td>1</td><td>Dec-22</td><td>102</td><td>1443</td><td>3454.5</td></tr><tr><td>2</td><td>Jan-23</td><td>114</td><td>1735</td><td>1273</td></tr><tr><td>3</td><td>Feb-23</td><td>98</td><td>1126</td><td>1815.5</td></tr><tr><td>4</td><td>March-23</td><td>98</td><td>1154</td><td>1463</td></tr><tr><td>5</td><td>April-23</td><td>111</td><td>1211</td><td>2499</td></tr></table>	SR NO	Month	No. Of Safety Training	No of Participants	Total Man Hours	1	Dec-22	102	1443	3454.5	2	Jan-23	114	1735	1273	3	Feb-23	98	1126	1815.5	4	March-23	98	1154	1463	5	April-23	111	1211	2499
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Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status				
		6	May-23	125	1069	1577
		Total		648	7738	12082
(xii)	Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/any wastewater shall not be allowed to mix with storm water.	Our Process drain and storm water drain are separated and Storm water drain should always found in dry and clean condition. We had already installed Mechanical sluice gate valve which is always found in closed condition except Monsoon. Storm water return arrangement to ETP is also available in case contamination. Storm water return arrangement, Mechanical Gate Valve and Storm water drain Photograph are attached herewith:  				

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status																													
		 Rain water harvesting system has been installed & put in operation. <table border="1"> <tr> <td rowspan="2">Old RMS</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr> <tr> <td>(50Mx50M)</td><td>2500</td><td>1875</td></tr> <tr> <td rowspan="2">New RMS</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr> <tr> <td>(50Mx26M)</td><td>1300</td><td>975</td></tr> <tr> <td rowspan="2">New Admin</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr> <tr> <td>(20Mx20M)</td><td>400</td><td>300</td></tr> <tr> <td rowspan="2">Main Gate /OHC/Bath room</td><td>AREA</td><td>M2</td><td>Water Harvest in KL</td></tr> <tr> <td>(30Mx15M)</td><td>450</td><td>337.5</td></tr> </table>		Old RMS	AREA	M2	Water Harvest in KL	(50Mx50M)	2500	1875	New RMS	AREA	M2	Water Harvest in KL	(50Mx26M)	1300	975	New Admin	AREA	M2	Water Harvest in KL	(20Mx20M)	400	300	Main Gate /OHC/Bath room	AREA	M2	Water Harvest in KL	(30Mx15M)	450	337.5
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(xiii)	Solvent management shall be carried out as Follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and Solvent handling pump shall have mechanical seals to prevent leakages.(c) Solvents shall be stored in a separated space specified with all safety measures. (d) Proper earthling shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The Solvent storage tanks shall be provided with breather valve to	Complied A. Yes, we have our own utilities and provided Brine/Chilling condenser and Column to reactors. B. Yes, all the pumps installed in plants are having standard mechanical seal C. Yes, the condensers are having sufficient Heat Transfer Area (HTA) and recovery more than 95% achieving.																													

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	D. Solvent are stored in a separate space specified with all safety measures. E. Proper earthing are provided in all the electrical equipment wherever solvents handling are done. F. All plant area are been flame proof and the solvent storage tanks are provided with breather valve to prevent losses as per PESO guideline.

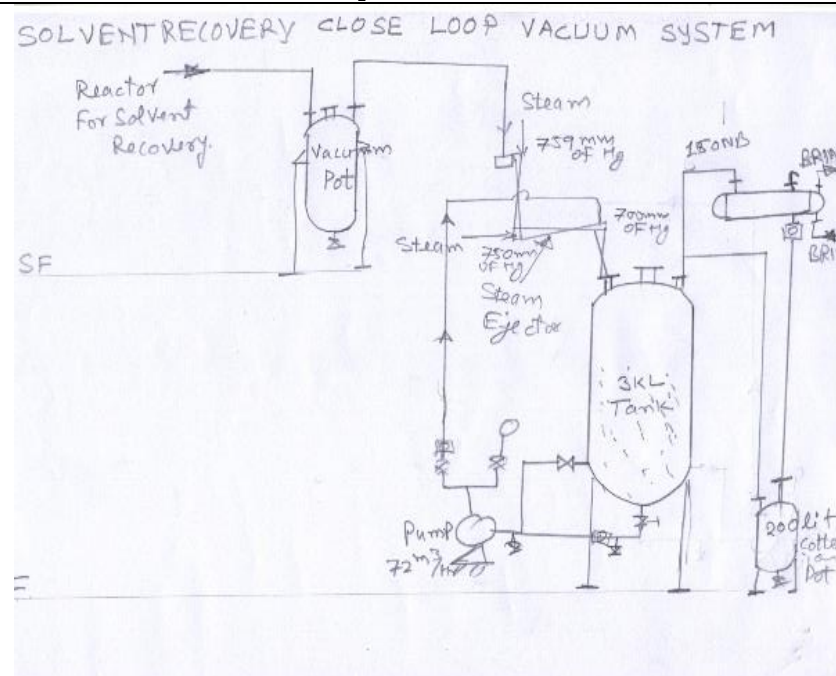
Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
	 All the chemicals which must be stored under negative pressure (as per PESO requirements) are stored in storage tanks under negative pressure to avoid any leakages. We have been provided the spark arrestor, breather system, N2 Blanketing, condensers and chilling for all the tanks to minimize vapour losses. We have been provided the closed handling systems for chemicals & solvents

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



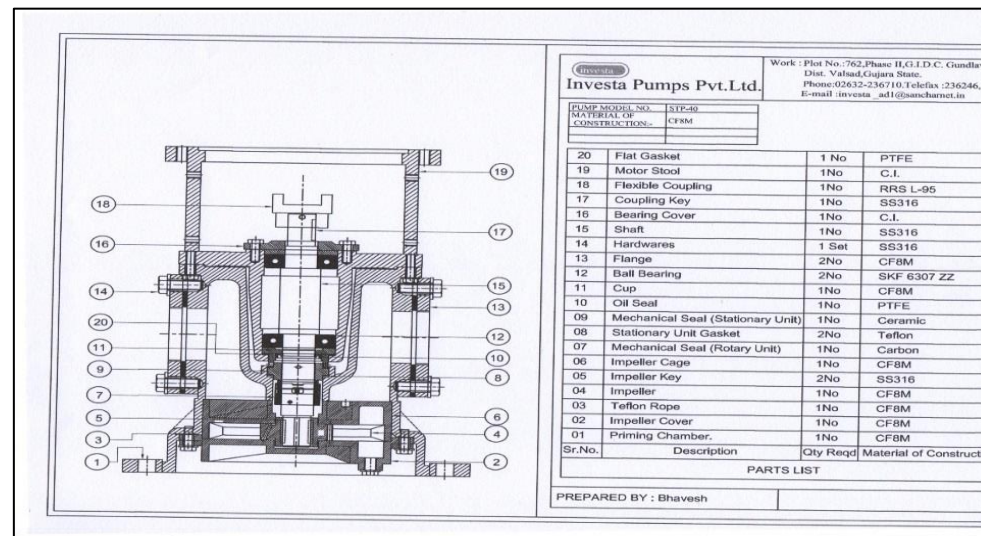
We have provided multi spring, carbon phase, silicon carbide, o ring and gasket seals for pumps and agitators.

TO minimize the use of Drums, we are storing most of liq. RM in tanks and few LRM are being stored in dedicated drums (suitable MOC)

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



We have been provided Chilled brine based condensers



Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

(xiv) Process organic residue and spent carbon, if any, shall be sent to cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.

Compliance Status

Complied
 Membership copy and HW disposal manifest copy are attached herewith.



BANAS RESOURCES LLP
 101, VIRAJ COMPLEX, NEAR OLD VASNA JAKAT NAKA
 SYED - VASNA ROAD, VADODARA - 390 015 GUJARAT, INDIA.
 M : +91 9825014769, +91 9979706779, +91 9033024009
 Email : banasresources6779@gmail.com

Date: 05.09.2022

To,
 M/s Bharat Rasayan Limited,
 Plot No:42/4,
 GIDC Dahej-392130,
 Ta-Vagra, Dis-Bharuch

Sub: Membership Certificate for Receiving pre-processing/Co-processing waste at Banas Resources LLP

Dear Sir,

This is to certify that Banas Resources LLP is agreed to receive the Hazardous waste from M/s Bharat Rasayan Limited at their pre-processing/Co-processing facility located at Plot No.D-2/CH 378 to 380, GIDC -2, Taluka-Vagra, Dis:-Bharuch, Dahej-392130. The category and quantity of the waste are as per under.

Sr.No	Waste Name	Category	Accepted Quantity (MT/Year)
1	Process Waste/Waste Residue Containing pesticides	29.1	2066

We assure you that we work in the most economical way as per legal requirements and environmentally suitable manners.

Thanking You,


Authorized Sign
AUTHORISED SIGNATORY

Plant : Plot No D/2/CH 378 To 380, GIDC Dahej II Rd, Samatpur, Next To Lewens Lab Pvt Ltd.;
 Revenue Survey No 237/P, & 238/P, Galenda, Taluka Vagra, Bharuch - 392 130, Gujarat



Certificate

Certificate No: **CTAW1B0006**

To Whomsoever it may concern
 This is to certify that
BHARAT RASAYAN LTD

PLOT NO 42/4,
 AMOD ROAD,
 GIDC, DAHEJ
 DAHEJ

is a valid member of
Recycling Solutions Private Limited
 for Alternate Fuel Resource Facility.
 This membership is valid for a period of
10 Years

Date of issue: **22/01/2015**
 Date of expiration: **21/01/2025**
 Place of issue: **Pavani**

For, Recycling Solutions Private Limited

 Director/Authorized signatory

SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	DISTILLATION RESIDUE	360.000	2	PROCESS WASTE	1,100.000
Total Sign Qty (TPA) :				1,460.000	

SUBJECT TO BHARUCH JURISDICTION

Site Address: Plot No. 228, GIDC Estate Pavani, Faroli 394 118 (Dist. Bharuch), Gujarat. Phone : 026-8 273029
 Registered office: Block 132, 20, Tirdoo Road, Halli AIL, Mumbai 400 034, Maharashtra
 Email: info@rspl.com Website: www.rspl.com



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

REF: BEIL/ANK/2021

01ST FEBRUARY, 2021

To,
BHARAT RASAYAN LTD.
PLOT NO.42/4,
DAHEJ INDUSTRIAL ESTATE,
GIDC, DAHEJ,
DIST. BHARUCH.

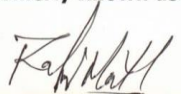
Sub: Membership Certificate for Common Solid Waste Disposal Facility

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by For, BEIL INFRASTRUCTURE LIMITED (Formerly Known as Bharuch Enviro Infrastructure Ltd)., at GIDC, Dahej. You have booked solid waste quantity **7500 MT/ Year** (Original Booked Quantity **6000 MT** + Increased Quantity **1500 MT**). Your Membership No. is **OTH/280**.

Thanking you,

Yours faithfully,
For, BEIL Infrastructure Limited
(Formerly Known as Bharuch Enviro Infrastructure Ltd)


AUTHORISED SIGNATORY

CIN NO : U45300GJ1997PLC032696
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225226 Fax : (02642) 222849 E-mail : dalwadibd@beil.co.in



DETOX INDIA
operated by **VEOLIA**

"Certificate"

Certificate No.:100293

To Whomsoever it may concern

This is to certify that
BHARAT RASAYAN LTD.

PLOT NO. 42/4,
GIDC DAHEJ,
TAL: VAGRA,
BHARUCH

is a valid member of

SAFE ENVIRO PRIVATE LIMITED

SEPL - Magnad

for

Integrated Common Hazardous Waste Management Facility

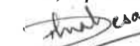
This membership is valid for a period of

05 Years

Date of issue : 05/07/2021
Date of expiration : 05/07/2026

Place of issue : Surat

For, Safe Enviro Private Limited


Director

SUBJECT TO SURAT JURISDICTION

Safe Enviro Private Limited

Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA
Ph. : +91 261 2351248, 2346181, E-mail : sepl.magnad@gmail.com | CIN : U51101GJ2015PTC083237



Certificate

Certificate No.: 1200000178

To Whomsoever it may concern

This is to certify that

BHARAT RASAYAN LIMITED

PLOT NO.42/4,
GIDC DAHEJ,
TAL:VAGRA,

BHARUCH
is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for

Integrated Common Incineration Facility

This membership is valid for a period of

5 Years

Date of Issue : 14.02.2023

For, Saurashtra Enviro Projects Pvt. Ltd.

Date of Expiration : 13.02.2028

Place of Issue : Surat

Director

SUBJECT TO SURAT JURISDICTION

R.S.No. : 417, Vill. : Juna Kataria, B/h. Gail Pump Station, Samakhiali-Radhanpur Highway, Tal. : Bhachau, Dist. : Kutch-370 150 (GUJARAT).

Regd Office: 3rd Floor, K.G. Chambers, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat - 395002. (GUJARAT)

Phone. No.- +91 261 2351248, 2346181, E-mail info@detoxgroup.in | Website: www.detoxgroup.in | CIN: U51100GJ2006PTC047689

AGREEMENT FOR SAFELY DISPOSAL OF HAZARDOUS WASTE

BY AND BETWEEN

This agreement is made at Ankleshwar on 19th February, 2021.

M/s. BHARAT RASAYAN LTD. having its facility at Plot No: 42/4, Amod Road, GIDC Dahej, Dist- Bharuch, Gujarat, hereinafter referred to as the "First Party - Waste Generator". Which expression shall, unless repugnant to the context or meaning hereof, mean and include its representatives successors in interest, executors, administrators, liquidators and permitted assigns) through its duly authorized signatory of the first part.

And

M/s. 3R ENVIRO INDIA PVT. LTD., (Provide better solutions for disposal of waste) Having its Registered Office at 11, Vashishth vaniyya complex, Near Railway Stations, Vidyanagar, Anand, Gujarat, India Hereinafter referred to as the "Second Party-Consultant / Intermediary Service Provider". Which expression shall, unless repugnant to the context or meaning hereof, mean and include its representatives' successors in interest, executors, administrators, liquidators and permitted assigns) through its duly authorized signatory of the second part.

And

M/s Shree Cement Limited having its facility at:

- 1) Bangur Nagar, Post Box No. 33, Beawar - 305 901, District - Ajmer, Rajasthan.
- 2) Village: Ras, Tehsil: Jaitaran, Dist. Pali.

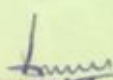
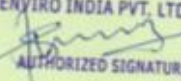
For, Bharat Rasayan Ltd.
Authorized Signatory

Second Party
FOR, 3R ENVIRO INDIA PVT. LTD.
AUTHORIZED SIGNATURE



19.3. Any dispute between the Parties arising out of or related to this that is not resolved shall be settled through arbitration conducted in accordance with the Arbitration and Conciliation Act, 1996 and amended from time to time. The arbitration shall be conducted at Mumbai, India. The arbitration proceedings shall be conducted in English and a record of the proceedings shall be maintained in English. All cost and expenses arising from this such arbitration shall be borne by the parties to such arbitration proceeding equally.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE SIGNED AND SUBSCRIBED THEIR RESPECTIVE HANDS ON THE DAY AND THE YEAR FIRST HEREIN ABOVE WRITTEN

M/s BHARAT RASAYAN LTD. (First Party)	M/s. 3R ENVIRO INDIA PVT. LTD (Second Party)	M/s SHREE CEMENT LIMITED (Third Party)
 Bharat Rasayan Ltd. Authorized Signatory	FOR, 3R ENVIRO INDIA PVT. LTD.  AUTHORIZED SIGNATURE	 Authorized Signatory
Mr. AJAY KUMAR GUPTA	Mr. TRAMOD PATHAK.	Mr. Rajar Goswami.

Bharat Rasayan Ltd.
Authorized Signatory
First Party

Second Party

Third Party



Banas Resources LLP [77438]

Manifest No:
2129101
20/06/2023

Copy 6

SER 203

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details			
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]		
Address	GIDC, DAHEJ,- Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427
Receiver's Details			
State	Gujarat	Type of Facility	Pre- processing
Facility Details	Banas Resources LLP [77438]		
Contact Details	9979706779 girishbhojak@gmail.com	GPS Coordinates	Lat :21.738327130542135 Long:72.66327108165221
Address	Plot No. D-2/CH 378 to 380, Dahej Industrial Area,Revenue Survey No. 237/P, 238/P Taluka :VAG Distict:BHA Pin no:392130		
Waste Details			
Waste Details	I~29~29.1~Process wastes or residues		
Waste Intended for	Preprocessing	Total Qty	10.815MT
		Consistency	liquid
Transporter Details			
Name	MAA TRADING		
Contact Details	9825411662 info@maatradingcompany.com		
Address	D-2/2237/P,238/P,, 378 TO 380 DAHEJ INDUSTRIAL ARE,MATRUCHAYYA RESIDENCY District :Bharuch Taluka :Vagra		
Vehicle Details			
Vehicle no	GJ16AV9253 (IMEI No :358980100426882)	GPS Enabled	Yes
Type of Vehicle	Truck		
Driver name	Rahul Yadav	Driver Contact No	9555012731
Waste Transportation Details			
Vehicle Depart.	20/06/2023 6:15PM	Number of Drums	44
Loose Waste	10.815		
Remarks	PROCESS WASTE AND WASTE RESIDUE		
	No of bags	0	

Sender's Declaration :
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.

For, BHARAT RASAYAN LTD.
Name and stamp of sender:
Date: 20/06/23
Signature: [Signature]
Authorised Signatory

Transporter's Acknowledgement of Receipt of waste
Stamp:
Date: 20/06/23
Signature: [Signature]

Receiver's Certification of Receipt of Hazardous waste
Stamp:
Date: 20/06/23
Signature: [Signature]

By scanning QR code, copy of transporter will be display. (All copy has same information)

Print by 33612 @ 20/06/2023 06:22:49 PM 22075e87-ac9d-4076-a160-c3566d6c9eca

Page 1 of 1



Safe Enviro Private Limited [53681]

Manifest No:
2116060
04/06/2023

Copy 4

To be forwarded by To be returned by the transporter by the operator of facility/recycler after accepting waste.

Sender's Details			
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]		
Address	GIDC, DAHEJ,- Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427
Receiver's Details			
State	Gujarat	Type of Facility	Common TSDF
Facility Details	Safe Enviro Private Limited [53681]		
Contact Details	9510860178 info@detoxindia.com	GPS Coordinates	Lat :22.038579882827026 Long:72.85685783252949
Address	966 to 976, 1040 , 1045 to 1049,- Taluka :JAM Distict:RHA Pin no:392150		
Waste Details			
Waste Details	I~35~35.3~Chemical sludge from waste water treatment		
Waste Intended for	LandFill	Total Qty	21.915MT
		Consistency	Solid
Transporter Details			
Name	DEEPAK TRANSPORT		
Contact Details	8238031964 international.envirocare@gmail.com		
Address	S 205 GIDC Multi Level Shed,,Near Asian Paints chokdi District :Ankleshwar Taluka :Ankleshwar		
Vehicle Details			
Vehicle no	GJ18AU9927 (IMEI No :358980100171652)	GPS Enabled	Yes
Type of Vehicle	Truck		
Driver name	Roshan Kumar	Driver Contact No	9301302149
Waste Transportation Details			
Vehicle Depart.	04/06/2023 5:30PM	Number of Drums	0
Loose Waste	21.915		
Remarks	ETP SLUDGE AND MEE SALT		
	No of bags	0	

Sender's Declaration :
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.

For, BHARAT RASAYAN LTD.
Name and stamp of sender:
Date: 04/06/23
Signature: [Signature]
Authorised Signatory

Transporter's Acknowledgement of Receipt of waste
Stamp:
Date: 04/06/23
Signature: [Signature]

Receiver's Certification of Receipt of Hazardous waste
Stamp:
Date: 04/06/23
Signature: [Signature]

By scanning QR code, copy of transporter will be display. (All copy has same information)

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Page 1 of 1



BEIL Infrastructure Ltd [40137]

Manifest No:
2085052
03/05/2023

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details			
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]		
Address	GIDC, DAHEJ, Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427
Receiver's Details			
State	Gujarat	Type of Facility	Common HWIF
Facility Details	BEIL Infrastructure Ltd [40137]		
Contact Details	9099057365 mistryrg@beil.co.in	GPS Coordinates	Lat :21.7240193450719 Long:72.59621502850457
Address	GIDC , DAHEJ, Taluka :VAG Distict:BHA Pin no:392130		
Waste Details			
Waste Details	I~29~29.1~Process wastes or residues		
Waste Intended for	Incineration	Total Qty	10.275MT
		Consistency	semi solid
Transporter Details			
Name	M/s. Maa Chamunda Earth Movers	Contact Details	6352972931 yuvraj.mech94@gmail.com
Address	FB/T-1, PLOT NO.1201, JALDHARA CHSL,NR JALDHARA CIRCLE, GIDC ESTATE District :Bharuch Taluka :Bharuch		
Vehicle Details			
Vehicle no	GJ06Y5199 (IMEI No :862112138000124)	GPS Enabled	Yes
Driver name	Ramjatan	Driver Contact No	7700874817
Type of Vehicle	Truck		
Waste Transportation Details			
Vehicle Depart.	03/05/2023 2:55PM	Number of Drums	0
Remarks	PROCESS WASTE FOR INCINERATION	Loose Waste	10.275
		No of bags	0
Sender's Declaration :			
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and are all in all respects in proper condition for transport by road according to applicable national government regulations.			
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.			
Name and stamp of sender:		Date: 03/05/23	
Bharat Rasayan Ltd. Plot No.42/4, Dahej Industrial Estate, G.I.D.C. Tal. : Vagda Dist. : Bharuch Pin : 392130, Gujarat		Signature: <i>[Signature]</i> For, Bharat Rasayan Ltd. Authorised Signatory	
Transporter's Acknowledgement of Receipt of waste			
Stamp:	Maa Chamunda Earth Movers Nr. Barbori Mata Temple, Dahej, Vagra Dist. Bharuch	Date: 03/05/23	Signature: <i>[Signature]</i>
Receiver's Certification of Receipt of Hazardous waste			
Stamp:		Date: 03/05/23	Signature: <i>[Signature]</i>

By scanning QR code, copy of transporter will be display. (All copy has same information)

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Page 1 of 1



BEIL Infrastructure Ltd [40137]

Manifest No:
2053361
02/04/2023

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details			
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]		
Address	GIDC, DAHEJ, Taluka :VAG Distict:BHA Pin no:392130		
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427
Receiver's Details			
State	Gujarat	Type of Facility	Common TSDF
Facility Details	BEIL Infrastructure Ltd [40137]		
Contact Details	9099057365 mistryrg@beil.co.in	GPS Coordinates	Lat :21.7240193450719 Long:72.59621502850457
Address	GIDC , DAHEJ, Taluka :VAG Distict:BHA Pin no:392130		
Waste Details			
Waste Details	I~35~35.3~Chemical sludge from waste water treatment		
Waste Intended for	Landfill	Total Qty	15.115MT
		Consistency	Solid
Transporter Details			
Name	MAA CHAMUNDA EARTH MOVERS	Contact Details	8401471022 aagohil1411@gmail.com
Address	NEAR BARBORI MATA TEMPLE,DAHEJ District :Bharuch Taluka :Vagra		
Vehicle Details			
Vehicle no	GJ23Y7220 (IMEI No :867556043897209)	GPS Enabled	Yes
Driver name	RUPESH PATEL	Driver Contact No	8543980785
Type of Vehicle	Truck		
Waste Transportation Details			
Vehicle Depart.	02/04/2023 5:15PM	Number of Drums	0
Remarks	ETP SLUDGE AND MEE SALT	Loose Waste	15.115
		No of bags	0
Sender's Declaration :			
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and are all in all respects in proper condition for transport by road according to applicable national government regulations.			
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.			
Name and stamp of sender:		Date: 02/04/23	
Bharat Rasayan Ltd. Plot No.42/4, Dahej Industrial Estate, G.I.D.C. Tal. : Vagda Dist. : Bharuch Pin : 392130, Gujarat		Signature: <i>[Signature]</i> For, BHARAT RASAYAN LTD. Authorised Signatory	
Transporter's Acknowledgement of Receipt of waste			
Stamp:	Maa Chamunda Earth Movers Nr. Barbori Mata Temple, Dahej, Vagra Dist. Bharuch	Date: 02/04/23	Signature: <i>[Signature]</i>
Receiver's Certification of Receipt of Hazardous waste			
Stamp:		Date: 02/04/23	Signature: <i>[Signature]</i>

Stamp:

Date:

Signature: *[Signature]*

By scanning QR code, copy of transporter will be display. (All copy has same information)

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Page 1 of 1



Shree Cement Ltd (Karnataka
Cement Project) [1000015]

Manifest No:
1941213
06/01/2023

Copy 2

To be forwarded by To be Carried by the occupier after taking signature on it form the transporter.

Sender's Details				
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]			
Address	GIDC, DAHEJ,- Taluka :VAG Dist: BHA Pin no:392130			
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427	
Receiver's Details				
State	Karnataka	Type of Facility	Co- processing	
Facility Details	Shree Cement Ltd (Karnataka Cement Project) [1000015]			
Contact Details	9214358170 sahuop@shreecement.com	GPS Coordinates	Lat :17.021664 Long:77.124647	
Address	Shree Cement Ltd (Karnataka Cement Project)			
Waste Details				
Waste Details	1~29~29.1~Process wastes or residues			
Waste Intended for	Co-Processing	Total Qty	21.275MT	Consistency semi solid
Transporter Details				
Name	SAI WASTE MANAGEMENT CO	Contact Details	9879114740 rohit@peregrine.co.in	
Address	Peregrine House A1/110 Diamond Estates ,Peregrine House A1/110 Diamond Estates District :Bharuch Taluka :Bharuch			
Vehicle Details				
Vehicle no	GJ16AV9906 (IMEI No :862095058896819)	GPS Enabled	Yes	Type of Vehicle Truck
Driver name	IMAM ALI	Driver Contact No	9328024745	
Waste Transportation Details				
Vehicle Depart.	06/01/2023 10:51AM	Number of Drums	100	Loose Waste 21.275
Remarks	Process waste and waste residue		No of bags	0
Sender's Declaration :				
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.				
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.				
BHARAT RASAYAN LTD. Plot No. 42/4, Dahej Industrial Estate, Dist. Bharuch, Gujarat, India Ph.: (02641) 2920123		Date: 06/01/23 Signature: Authorised Signatory		
Transporter's Acknowledgement of Receipt of waste				
Stamp:	Date: 06/01/23		Signature:	
Receiver's Certification of Receipt of Hazardous waste				

In Principal Approval Details :Accepted - 06/01/2023 12:57PM - Remarks :ok

Stamp: Date: Signature:

By scanning QR code, copy of transporter will be display. (All copy has same information)

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Page 1 of 1



Shree Raipur Cement Plant (A Unit
of Shree Cement Ltd.) [1000004]

Manifest No:
1983454
18/02/2023

Copy 2

To be forwarded by To be Carried by the occupier after taking signature on it form the transporter.

Sender's Details				
Sender Name	Bharat Rasayan Ltd.(Old Name:Siris Crop Science Limited) [33612]			
Address	GIDC, DAHEJ,- Taluka :VAG Dist: BHA Pin no:392130			
Contact Details	7046500020 ajay.gupta@bharatgroup.co.in	GPS Coordinates	Lat :21.72251 Long :72.59427	
Receiver's Details				
State	Chhattisgarh	Type of Facility	Co- processing	
Facility Details	Shree Raipur Cement Plant (A Unit of Shree Cement Ltd.) [1000004]			
Contact Details	9214358170 sahuop@shreecement.com	GPS Coordinates	Lat :21.354184 Long:82.021424	
Address	Shree Raipur Cement Plant (A Unit of Shree Cement Ltd.)			
Waste Details				
Waste Details	1~29~29.1~Process wastes or residues			
Waste Intended for	Co-Processing	Total Qty	26.205MT	Consistency semi solid
Transporter Details				
Name	Sai waste managment	Contact Details	9824544438 rohit@peregrine.co.in	
Address	Peregrine House , Plot No A1/110, Diamond Estate „Behind Giriraj Hotel NH-8 District :Bharuch Taluka :Bharuch			
Vehicle Details				
Vehicle no	GJ16AV6495 (IMEI No :869604062319404)	GPS Enabled	Yes	Type of Vehicle Truck
Driver name	MAHENDRASINGH	Driver Contact No	7573929018	
Waste Transportation Details				
Vehicle Depart.	18/02/2023 8:20PM	Number of Drums	115	Loose Waste 0.000
Remarks	Process Waste AND Waste Residue		No of bags	0
Sender's Declaration :				
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.				
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.				
BHARAT RASAYAN LTD. Plot No. 42/4, Dahej Industrial Estate, Dist. Bharuch, Gujarat, India Ph.: (02641) 2920123		Date: 18/02/23 Signature: Authorised Signatory		
Transporter's Acknowledgement of Receipt of waste				
Stamp:	Date: 18/02/23		Signature:	
Receiver's Certification of Receipt of Hazardous waste				

In Principal Approval Details :Accepted - 18/02/2023 8:29PM - Remarks :Ok

Stamp: Date: Signature:

By scanning QR code, copy of transporter will be display. (All copy has same information)

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Page 1 of 1

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status
(xv)	The company shall undertake waste minimization measures as below (a) Metering and Control of quantities of the active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system in to batch reactors. (e) Venting equipment through vapor recovery System. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Complied as we have been undertaken the following waste minimization measures • Provided magnetic flow meter for charging with metering pumps. • Vent gases re-use for internal other processes and made valuable products. Company use automated material transfer system to minimize spillage in closed loop. • Provided closed feed system into batch reactors • Maximize recovery system. We have provided Jet cleaning machine with safety standard to reduce waste water generation with high cleaning performance.
(xvi)	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.	Complied Please, see the Photographs of Greenbelt attached below:
		
		
	Green Belt near Admin area	Green Belt Near Main Gate
		Front view of Green Belt

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

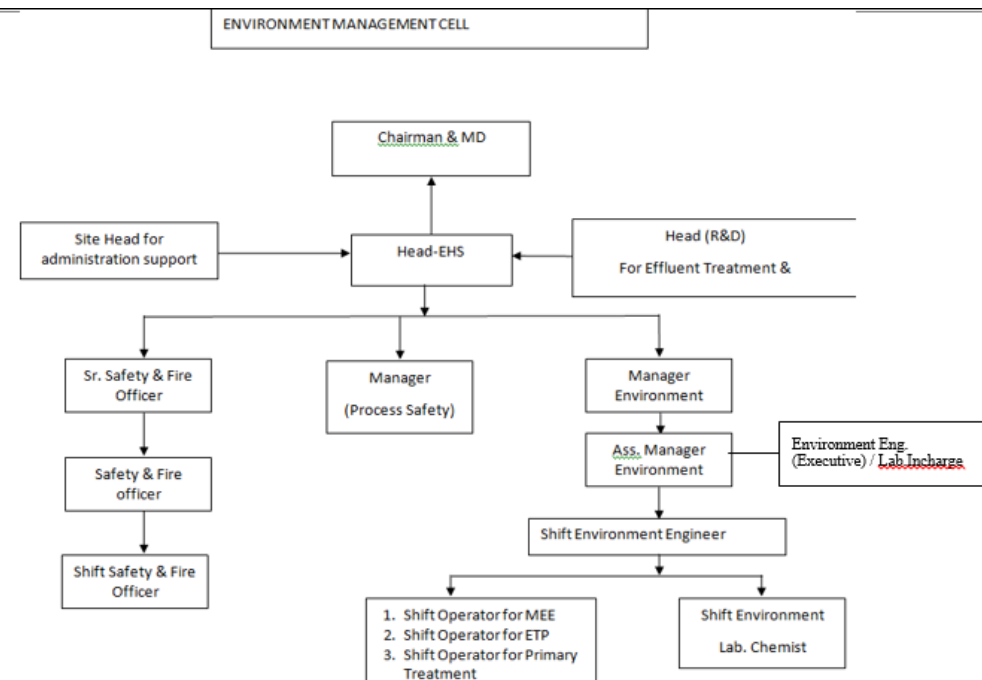
Conditions		Compliance Status	
			
	Green Belt All Around Boundary Wall Near Plant Area	Green Belt Near ETP All Around Boundary Wall	Green Belt near All Around Boundary Wall
(xvii)	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/Specialization in the project area) equipped with full- fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.		Complied We are having separate Environmental Management Cell. Please, see the details of Environment Management cell attached below: INTRODUCTION The organization has established and maintains the documented environmental objectives and targets, at each relevant function and level within the organization. When establishing and reviewing its objectives, organization has considered the environmental policy, legal requirements, and significant environmental aspects. We have also considered our financial and business requirement in views of regulatory and customer's requirements, while framing these objectives and the targets. These targets has been discussed during the management review meetings and progress rate been evaluated for their effective implementation within the define

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status

time frame.



EHS COMMITTEE

1. Objectives

- i. To contribute to protection of environment by
 1. Improving the environmental management system to enhance the overall environmental performance
 2. Comply relevant environmental legislation and regulation
 3. Conserve relevant natural resources like fuel, water, energy and promote greening of the environment
- ii. To promote safety & health of the employees and others associated with our

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
	operations by 1. Implementation of best practices in safety and health management system. 2. Compliance with the applicable safety and health legislation 2. Scope i. The subjected report is applicable for Bharat Rasayan Limited, Plot No. 42/4, GIDC Industrial area, Dahej. Dist. - Bharuch. ii. The subjected report provides guidelines / directions for 1. Defining the responsibilities 2. Defining the detailed instructions and / or references for various activities. 3. Responsibility - o Organization of the team responsible is illustrated with the help of following team organization chart - o Responsibilities of different functions (team members) indicated in the organization chart are as follows: Director - Operations: • To collect data from various team members as described above. • To ensure that all operations are in accordance as specified in objective and scope. • To ensure that adequate financial provision is made in budget of the environmental safe guard. Funds so earmarked shall not be diverted for any other purpose. Production: • To ensure that reactors shall be connected with suitable heat exchanger to achieve a recovery of about 95 %. • In process and solvent used in production shall be stored in a separate space with all safety measure. • Proper earthing is be provided in all electrical equipment wherever solvent

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
	handling is done. - Entire plant shall be flame proof. The solvent storage tanks shall be provided with flame arrestor was ever applicable. - To ensure that influent process water generated in the process is directed to effluent treatment plant. - To ensure that polybags and drums are decontaminated before reuse /sale /disposal. Engineering - To provide suitable utilities in plant to prevent solvent loss through vaporization. - The water intake shall not exceed 1419 KL/Day. - To provide monitoring arrangements with stacks /vents and proper prevent maintenance to control the air emission. - To ensure building & facilities are provided with suitable drains to avoid mixup of storm water with domestic waste water. - To ensure that waste oil produced is neatly maintained in dedicated containers and sold to authorized recyclers. - To provide suitable arrangements in equipment and ancillary system so as to minimize loss of fuel water and energy. - The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures. Electrical - Proper earthing is being provided in all electrical equipment wherever solvent handling is done. - Entire plant shall be flame proof. - Double earthing provides the all solvent storage tanks and process reactors. - Monitoring and control the DG Set operation (DG sets for power failure/any emergency only) Electrical consumption details are measured and monitoring to control the energy levels and reduce the energy consumption every year.

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
	HR & Admin: • To provide manpower for maintaining activities as defined in objective. • To ensure that housekeeping and gardening in factory is well maintained. • Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Gujarat factory rules. • To select the qualified and experienced employees for effective operation to reduce spillage and accidents. • To maintain the competence profile and Department HOD are minimum environment awareness and training will be given to employees for environment protection. Ware House and Accounts: • Minimum and maximum stock inventory maintain for continuous operation of Air pollution control equipment and effluent treatment plant for reduce the breakdown hours. • Financial help was providing the hazardous waste disposal and GIDC Intake water and Treated effluent water drain disposal charges and GPCB pending amounts given to timely. • Materials are stored as per compatibility to reduce the spillage and incidents. • Training was given to contract and company employees for material handling. QA & QC • Materials are stored as per compatibility to reduce the spillage and incidents. • Training was given to contract and company employees for material handling. • MSDS providing for new raw materials and product before use. • Follow the waste water disposal and Hazardous waste disposal. • Decontamination will be carried out before disposal to ETP. EHS • Minimum and maximum stock inventory maintain for continuous operation

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status
		of Air pollution control equipment and effluent treatment plant for reduce the breakdown hours. • Materials are stored as per compatibility to reduce the spillage and incidents. • Training was given to contract and company employees for material handling and equipment's operation. • Training and awareness given to employees for environment protection. • Monitoring and measurement for environment performance. Timely dispose to Hazardous waste for GPCB authorized party and transporters also. • Improve the environment management system to enhance the overall environmental performance. • Comply relevant environmental legislation and regulation. • Conserve relevant natural and resources like fuel water and energy and promote greening of the environment. Compliance with the applicable safety and health legislation.
14.1	GENERAL CONDITION:	
(i)	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/ SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
(ii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	For existing plant we are already using LED light, & we will follow it in expansion. Photograph of LED light is attached herewith:

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status																																			
																																					
(iii)	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 the Environment (protection) Act, 1986 Rules, 1989 viz. 75 dB A(day time) and 70 dBA (night time).	Complied. M/s. Siddhi Green Env. Consultancy carries third party analysis. Analysis report are attached herewith. Noise Monitoring Data from Dec-22 to May-23 are attached herewith: Noise level data Sheet Dec-22 to May-23 <table><tr><th rowspan="2">SR No</th><th rowspan="2">Location</th><th colspan="2">Day Time</th><th colspan="2">Night Time</th></tr><tr><th>Min dB(A)</th><th>Max dB(A)</th><th>Min dB(A)</th><th>Max dB(A)</th></tr><tr><td>1</td><td>Near Security Main Gate</td><td>63</td><td>67</td><td>55</td><td>62</td></tr><tr><td>2</td><td>Near ADM office</td><td>56</td><td>59</td><td>52</td><td>60</td></tr><tr><td>3</td><td>Near ETP</td><td>70</td><td>74</td><td>65</td><td>68</td></tr><tr><td>4</td><td>Near Boiler</td><td>72</td><td>74</td><td>65</td><td>69</td></tr></table>		SR No	Location	Day Time		Night Time		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)	1	Near Security Main Gate	63	67	55	62	2	Near ADM office	56	59	52	60	3	Near ETP	70	74	65	68	4	Near Boiler	72	74	65	69
SR No	Location	Day Time				Night Time																															
		Min dB(A)	Max dB(A)	Min dB(A)	Max dB(A)																																
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Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status					
		5	Near Plant A	70	73	64	67
		6	Near Plant B	70	72	59	63
		7	Near Plant C	70	73	63	66
		8	Near Utility	73	74	62	68
		9	Near Canteen	68	72	60	65
		10	Near MEE Plant	69	72	59	67
		Standard		75 dB(A)		70 dB(A)	
(iv)	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. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted We undertakes community Welfare measures in the project area for overall improvement of environment.					
		Sr. no.	CER activities done by M/s. Bharat Rasayan Limited				Expenditure
			Infrastructure				Rs.
		1	Tree plantation in Dahej-Bharuch Highway and Amleshwar School				2.35 Lacs
		2	Provided steel barricade from Dahej Crossing to Dahej Panchayat				8.0 Lacs
		3	Donation to Bharuch collector under the scheme My liveable Ankleshwar/Bharuch				15 Lacs
		4	Provided Solar light at Amleshwar School				0.84 Lacs
		5	Room repairing and terrace IPS of Sadanand Vidhyamandir, Amleshwar				1.5 Lacs
		6	Renovation of 5 house in Tribal area of Dahej village				5 Lacs
			Education and Training				
		7	Teacher salary of Shri. P J Chhada Vidhyalaya, Dahej and Sanskar Vidhyalay Dahej				Rs.30,000 / Every

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status		
				Month
			Health	
		8	Various activities to help the community during Covid-19	20 Lacs
		9	Installed Oxygen Plant at CHC, Gadkhol	10 Lacs
		10	Donation to CM relief fund during Corona Pandemic	51 Lacs
			Amenities and sanitation	
		11	3 computer set provide in SP office Bharuch 1 computer set provided in Mamlatdar and Executive Magistrate Kacheri, Vagra	1.33 Lacs
		12	Distribution of Eco-friendly stove at Sadanand Vidhyamandir, Amleshwar Village	5.12 Lacs
		13	Contributed in the auspicious occasion of Samuh Lagna held at Bhutnath temple	1.51 Lacs

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



Board of Environmental Sustainability Trust (BEST)	
(Public Charitable Trust, Regd. under The Indian Trust Act, 1882)	
Registration No. : 408/IV/Vol. No. 4446 dated : 08.09.2020 (Govt. of NCT Delhi)	
CSR-1 for CSR Activities: CSRD0017957 dated 20.11.21 (Ministry of Corporate Affairs)	
PAN No. : AAETB1643A	
Receipt No. : 01	Date : 21-04-2023
Received with thanks from <u>Bharat Rasayan Limited.</u>	
Plot No - 42/4, Amed Road, GIDC, Dahej, Dist - Bharuch.	
Gujarat PIN - 392130	
a sum of Rupees <u>Fifteen Lakh only</u> - Having PAN No. <u>AAACB4127A</u>	
only by Cash / Cheque No./NEFT/RTGS No. <u>025756</u>	Date: <u>05/04/2023</u>
drawn on <u>HDFC Bank, Sai Narayan Complex, Dahej, (HDFC 0000030)</u>	
towards voluntary contribution as donation.	
Rs. <u>1500000/-</u> only	
For Board of Environmental Sustainability Trust (BEST)	
Exemption Certificate: Certified that the donation made to this Trust is allowable u/s 80G (6) of the Income Tax Act. 1961	
Unique Registration No. : AAETB1643AF20215 dated 27.10.2021 (Commissioner of Income Tax) Valid till AY 2026-27	
Admin Office : 302, 3rd Floor, Samrajya Complex, Shravan Chokdi, Dahej Bypass Road, Bharuch-392001 (Gujarat) India	
Contact No. : 02642-796409, 9426689448 E-mail : sdg2030best@gmail.com	

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



Board of Environmental Sustainability Trust

(Public Charitable Trust, Regd. under The Indian Trust Act, 1882)
 Registration No. 408/IV/Vol No. 4446 dated 08-09-2020 (Govt. of NCT of Delhi)
 Regd. - NITI Ayog Darpan, 12A/806, CSR-1, UNGC Member

Ref.: MY LIVABLE ANKLESHWAR/CSR FUNDS/2023-24/001

DATE: 08/06/2023

To,
 Unit Head
 Bharat Rasayan Limited,
 Dahej

Sub: An acknowledgment letter and receipt against the CSR funds received for "My Livable Ankleshwar" - CSR Initiative.

Dear Sir,

We are happy to inform you that we have received fund for ₹. 1500000 (Rupees Fifteen Lakh Only) from your esteemed organization, M/s Bharat Rasayan Limited, Ta. Vagra towards the CSR funds contribution for "My Livable Ankleshwar" - CSR Initiative of the District Administration, Bharuch.

The support extended by Bharat Rasayan Limited is invaluable and will play a pivotal role in assisting to achieve the objectives.

Please find attached herewith the Receipt No.-01, Dated:-21/04/2023 w.r.t. the contribution. If you require any further information, please feel free to contact us at sdg2030best@gmail.com

Thank you once again for your generosity and belief in this cause.

Yours sincerely,
 For Board of Environmental Sustainability Trust (BEST)

Marutesh Tiwari

Marutesh Tiwari
 Associate Director - CSR & Youth Development



* Copy to :

Shri Tushar Sumera, IAS, Collector & District Magistrate, Bharuch.

Office - # 302, 3rd Floor, Samrajya Complex, Shravan Chokdi, (Dahej) Bypass Road, Bharuch-393001 (Gujarat), India
 Email : info@sdg2030best.org, sdg2030best@gmail.com Ph. : 02642-796409, Mob. : +91 8347355872



WORKS : UNIT-II: Plot No. 424, Amod Road, GIDC, Dahej, District-Bharuch
 Gujarat-392130, Ph. : +91-2641-291123, +91-2642-241100

પ્રતિ
 મામલતદાર શ્રી
 મામલતદાર અને એકઝીક્યુટીવ મેજિસ્ટ્રેટની કચેરી
 તા. વાગરા, જી.ભરૂચ તા. 05-04-2022

વિષય : સી.એસ.આર ગ્રાન્ટમાંથી કમ્પ્યુટર સેટ ફાળવી આપવા બાબત.
 રેક : આપના તા. 29/03/2022 ના રોજ ના પત્ર ના અનુચ્છાન માં.

પ્રતિ મામલતદાર શ્રી

જય ભારત સાથે ઉપરોક્ત વિષય અનુચ્છાન માં અપશ્રી ને જણાવવાનું કે આપના ધવારા તા. 29/03/2022 ના રોજ મામલતદાર કચેરી વાગરા માટે ૧ કમ્પ્યુટર સેટ ફાળવી આપવા બાબતમાં મદદ રૂપ થવા અમોને વિનંતી પત્ર આપવામાં આવેલ.

આપ શ્રી ને જણાવતા આનંદ થાય છે કે કંપની મનેજમેન્ટ ધવારા આપની વિનંતી મંજૂર કરવામાં આવેલ છે અને મામલતદાર કચેરી વાગરા માટે ૧ કમ્પ્યુટર સેટ ફાળવી આપવાનું નક્કી કરેલું છે અને જેથી સ્થાનિક લોકો ના કામો ઝડપથી થશે અને સ્થાનિક લોકો ના વિકાસ, પ્રગતિ ના કામોને વેગ મળશે. અને સદર કમ્પ્યુટર સેટ ફાળવણી થવાથી ત્યાર બાદ ની જરૂરી જાણવાણી આપશ્રી (મામલતદાર કચેરી) ધવારા કરવાની રહેશે જેની નોંધ લેશો અને સદર કમ્પ્યુટર સેટ મળેલ છે તે બાબત નો જરૂરી સ્વીકૃતિ પત્ર આપવાનો રહેશે.

ભારત રાસાયણ લિમિટેડ
 (Dahej)
 એચીસઇસ સિએટોરી

સી.એસ.આર.
મામલતદાર-વાગરા.
 તા. 13/4/2022

CIN : L24119DL1989PLC036264
 Regd. Off. : 1501, Vikram Tower, Rajendra Place, New Delhi - 110008
 Ph. : +91-11-43661111 (30 lines) • Fax : +91-11-43661100, 41538600
 E-mail : info@bharatgroup.co.in • Website : www.bharatgroup.co.in

મામલતદાર અને એકઝીક્યુટીવ મેજિસ્ટ્રેટની કચેરી

તા. વાગરા જી.ભરૂચ

ફોન/ફેક્સ : 02642-291123

ઈ-મેઇલ : mam-vagada@gujarat.gov.in

ક્રમાંક:ભુમી/વસી/જડુ ૧

તા. ૧૩/૦૪/૨૦૨૨

પ્રતિ,
 મેનેજરશ્રી
 ભારત રસાયણ લી.
 મુ.દહેજ તા:વાગરા

વિષય : સી.એસ.આર ગ્રાન્ટમાંથી કમ્પ્યુટર સેટ ફાળવી આપવા બાબત

જયભારત સાથે ઉપરોક્ત વિષય અન્વયે જણાવવાનું કે, સરકારશ્રીના પ્રવર્તમાન નિયમો મુજબ કંપનીના સી.એસ.આર ફંડ માંથી સ્થાનિક વિકાસના કામો કરવાના થતા હોય છે. જેને અનુલક્ષીને આપશ્રી દ્વારા અત્રેની કચેરીને ૧ (એક) કમ્પ્યુટર સેટ ફાળવી આપેલ છે. જે ખુબ જ પ્રશંસનીય કાર્ય હોય અને કચેરી આપની આભારી છે.

સી.એસ.આર.
મામલતદાર વાગરા.

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status



Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions

Compliance Status

વિજય રૂપાણી
મુખ્યમંત્રી, ગુજરાત રાજ્ય


સત્યમેવ જયતે

Dt.13/07/2020

શ્રીમાન/શ્રીમતિ,
Bharat Rasayan Ltd.

કોરોના મહામારી સંદર્ભે ગુજરાતના નાગરીકોને સહાય કરવા માટે, મુખ્યમંત્રી રાહત ફંડમાં આપનું આર્થિક યોગદાન આપવા બદલ હું આપનો આભાર વ્યક્ત કરું છું.

કોરોના મહામારીના આ કપરા સમયમાં આપના તથા આપના પરિવારના સ્વાસ્થ્યને સાચવવા તથા આ મહામારીથી આપણા દેશવંશુઓને રક્ષવાના મહત્વસાધક આપ સરકારની સુચનાઓનું પાલન કરશો તેવી આશા રાખું છું.

જય જય ગરવી ગુજરાત


(વિજય રૂપાણી)

મુખ્યમંત્રી કાર્યાલય (સીડી 9001/2008 પ્રપાલિકા)
3 નો માન, સચીવન સંકુલ-૧, સચિવાલય, ચાવીરોડ - 382010, ગુજરાત
ફોન : +91 - 06 - 23 90003-39, 38 : +91 - 06 - 23 912101 www.gujaratindia.gov.in

The Donations credited to the fund will qualify for 100% exemption under section 80 (G) (2) (a) (iii) of Income-Tax Act.

PAN No. AAATG 2597 L EC No. 00888486

THE GUJARAT CHIEF MINISTER'S RELIEF FUND

Received with thanks the sum of Rs. 51,00,000.00
 (Rupees Five One Lakh Only)
 in cash/by cheque/by draft from Shri Bharat Rasayan Ltd.
 towards the Gujarat Chief Minister's Relief Fund.

Date 13/07/2020 SI No. 830532 Signature [Signature] Section Officer
 at 20/05/2020 (Subject to realisation) Gujarat Chief Minister's Relief Fund
581 Revenue Department, Govt. of Gujarat

॥ જય ભૂતનાથ ॥ રજુ નં-ડ/3850/ભરૂચ PAN NO.: AASTS7910H

શ્રી ભૂતનાથ ચેરીટેબલ વેલ્ફેર ટ્રસ્ટ દહેજ

મુખો, દહેજ, તા. વાગરા, જી. ભરૂચ તારીખ : 25/4/2022

શ્રીમાન Bharat Rasayan Limited

ગામ ગામડા આપના વરફાથી શ્રી ભૂતનાથ ચેરીટેબલ વેલ્ફેર ટ્રસ્ટ દહેજ દ્વારા યોજાયેલ સમુદ્ધ લગ્નોત્સવમાં દાન પેટે અંદે રૂપિયા One Lakh Fifty One Thousand Only રૂપિયા મોકલ છે જે બદલ આપશ્રીનો સ્તોત્રમાર.

કાનુલ - 083597/25/04/2022

31.1.51,000/- MD AL Bomp તારીખ : 25/04/2022

સાદરે લેનારની/સહી

॥ જય ભૂતનાથ ॥ રજુ નં-ડ/3850/ભરૂચ

શ્રી ભૂતનાથ ચેરીટેબલ વેલ્ફેર ટ્રસ્ટ દહેજ

મુખો, દહેજ, તા. વાગરા, જી. ભરૂચ PAN NO.: AASTS7910H

તારીખ : 03/04/2022

TO, MANAGER SIR
BHARAT RASAYAN LTD.
DAHEJ.

Sub: Request letter regarding the contribution in the auspicious occasion of "SAMUJH LAGNA"

Dear sir/madam,

As you are aware that the programme of "samujh lagna" (wedding ceremony of numerous couples under single roof.) is held at bhutnath temple, (dahej)

In this auspicious occasion, we select the couples who are extremely poor in their financial condition.

Our organization named "BHUTNATH CHARITABLE WELFARE TRUST REF NO. E3467 BHARUCHI/BHATHUJI YUVAK MANDAL takes or anticipates/demands no money whatsoever from these marrying couples or their family.

By doing this we intend to set example of humanity and service to needy.

you are running your industry in Dahej GIDC and your prestige is unmatched.

we sincerely hope to get your support in this act of unselfishness & compassion. There will be approx 65nos of couples getting married on this day.

We are hereby enclosing a table containing an approx. idea of what would be required and how much it will cost to sponsor this event.

MARRIAGE DATE : 03.05.2022

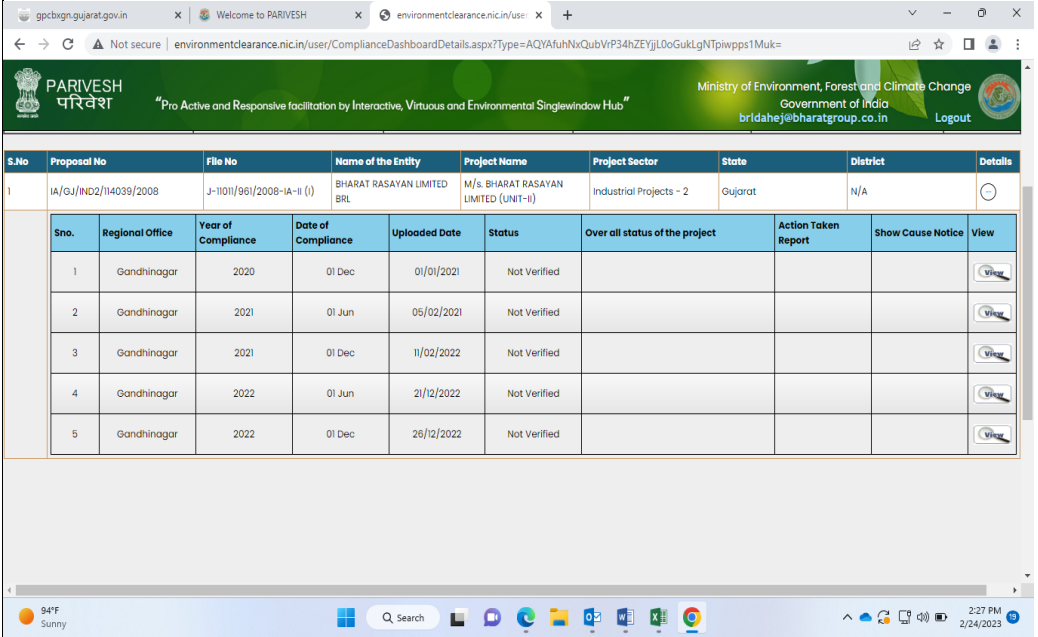
[Signature]
 Yours Faithfully,

bhutnath charitable welfare trust (reg no. E3467 bharuchi/bhathuji yuvak mandal dahej, ta. vagra pin 392130)

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status			
(v)	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	Noted Proposed approx. 16 Crore Capital cost is reserve for Environment Management/Pollution Control Measures and it will not diverted for any other purpose.			
		Sr. No.	Particulars	Capital Cost for expansion (Rs. In lakh)	Additional Recurring Cost Per Annum (Rs. In lakh)
		1	Air Pollution Control	150	70
		2	Water Pollution Control	1100	2200
		3	Noise Pollution Control	5	0.1
		4	Env. Monitoring & Management	150	20
		5	Occupational Health & Safety	50	20
		6	Green Belt enhancement & Maintenance	50	10
		7	Solid Waste Management	95	400
			TOTAL :-	1600	2720.1
(vi)	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.	Complied			

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions	Compliance Status
(vii) 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 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. Half Yearly Compliance report are successfully submitted on Parivesh Portal. Screen shot of Parivesh Portal is attached herewith: 
(vi) 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.	Complied
(viii) 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	Complied, The environment statement of each financial year ending 31st March in form-v Submitted regularly to the GPCB.

Compliance Report For Stipulated Conditions Of Environmental Clearance
EC Order No. J-11011 / 961 / 2008-IA - II(I) dated 19th October, 2020

Conditions		Compliance Status
	respective Regional Offices of MoEF &CC by e-mail.	Please find Inward copy of Latest form-v (2022-23) herewith.
(ix)	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 We have received the EC letter on 19/10/2020 and published the Advertisement in local Newspaper of Gujarat Samachar on dated 22/10/2020 & in Times of India dated 22/10/2020. We have also forwarded the newspaper advertisement copy along with EC copy to the regional office, Bharuch.
(x)	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.	Noted Already applied for EC to Partial CTO.
15.	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.	Yes, Agreed
16.	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	Yes, Agreed
17.	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.	Yes, Agreed
18.	The above conditions will be enforced, inter- alia under the provision of the water (prevention and Control of Pollution) Act, 1974, the Air(Prevention & Control of Pollution) Act, 1981,the Environment (Protection) Act, 1986, the Hazardous waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein	Yes, Agreed

Annexure-II Compliance report of CCA and its Amendment

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions		Compliance Status																																																																		
1	Consent Order No.: AWH-123779 date of Issue 11/01/2023.																																																																			
2	The consent under Water Act-1974 for conveying the industrial effluent discharge to GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid up to 10/10/2027 to operate industrial plant to manufacture following products: <table> <tr> <th></th><th>Name of Product</th><th>Quantity MT/Annum</th></tr> <tr><td>1.</td><td>4-acetyl-2-methylbenzamide (AMBAD)</td><td>25</td></tr> <tr><td>2.</td><td>Alpha Cypermethrin Technical</td><td>300</td></tr> <tr><td>3.</td><td>Bifenthrin Technical</td><td>100</td></tr> <tr><td>4.</td><td>Chlorimuron Ethyl Technical (95%)</td><td>10</td></tr> <tr><td>5.</td><td>Chlorpyrifos Methyl Technical</td><td>250</td></tr> <tr><td>6.</td><td>Clodinafop Propargyl Technical</td><td>250</td></tr> <tr><td>7.</td><td>Cypermethric acid chloride (CMAC)</td><td>1000</td></tr> <tr><td>8.</td><td>Cypermethrin Technical</td><td>800</td></tr> <tr><td>9.</td><td>3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)</td><td>25</td></tr> <tr><td>10.</td><td>Diafenthiuron Technical</td><td>400</td></tr> <tr><td>11.</td><td>Difenconazole Technical</td><td>100</td></tr> <tr><td>12.</td><td>Diuron Technical</td><td>900</td></tr> <tr><td>13.</td><td>Ethion Technical</td><td>700</td></tr> <tr><td>14.</td><td>Fenvalerate Technical</td><td>78</td></tr> <tr><td>15.</td><td>Fenpyroximate Technical</td><td>15</td></tr> <tr><td>16.</td><td>Fipronil Technical</td><td>60</td></tr> <tr><td>17.</td><td>Flumethric Acid</td><td>15</td></tr> <tr><td>18.</td><td>Flumethrin Technical</td><td>15</td></tr> <tr><td>19.</td><td>Imazethapyr Technical (97%)</td><td>50</td></tr> <tr><td>20.</td><td>Imibenconazole</td><td>50</td></tr> <tr><td>21.</td><td>Imiprothrin Technical</td><td>8</td></tr> </table>		Name of Product	Quantity MT/Annum	1.	4-acetyl-2-methylbenzamide (AMBAD)	25	2.	Alpha Cypermethrin Technical	300	3.	Bifenthrin Technical	100	4.	Chlorimuron Ethyl Technical (95%)	10	5.	Chlorpyrifos Methyl Technical	250	6.	Clodinafop Propargyl Technical	250	7.	Cypermethric acid chloride (CMAC)	1000	8.	Cypermethrin Technical	800	9.	3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	25	10.	Diafenthiuron Technical	400	11.	Difenconazole Technical	100	12.	Diuron Technical	900	13.	Ethion Technical	700	14.	Fenvalerate Technical	78	15.	Fenpyroximate Technical	15	16.	Fipronil Technical	60	17.	Flumethric Acid	15	18.	Flumethrin Technical	15	19.	Imazethapyr Technical (97%)	50	20.	Imibenconazole	50	21.	Imiprothrin Technical	8	Unit commits that manufacturing mentioned products as per granted quantity by Gujarat Pollution Control Board.
	Name of Product	Quantity MT/Annum																																																																		
1.	4-acetyl-2-methylbenzamide (AMBAD)	25																																																																		
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Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions			Compliance Status
	22.	Isoprothiolin Technical (96%)	100	
	23.	Lambda Cyhalothrin Acid	350	
	24.	Lambda Cyhalothrin Technical	600	
	25.	Metaphenoxy Benzaldehyde	1750	
	26.	Metaphenoxy Benzyl Alcohol	200	
	27.	Metofluthrin Technical	4	
	28.	Metribuzine Technical	400	
	29.	Metsulphuron Methyl Technical	20	
	30.	Myclobutanil Technical	15	
	31.	Novaluron Technical	10	
	32.	Pendimethalin Technical	600	
	33.	Permethrin Technical	250	
	34.	Phenthoate Technical	400	
	35.	Prallethrin Technical	25	
	36.	Propargite Technical	25	
	37.	Pyrazosulfuron Ethyl Technical (97%)	25	
	38.	Sulfosulfuron Technical	20	
	39.	Tebuconazole Technical (93%)	300	
	40.	Thiamethoxam Technical	750	
	41.	Transfluthrin Technical	60	
	42.	Tricyclazole Technical	25	
	43.	Pilot products	75	
	44.	Profenofos Technical	150	
	45.	Propiconazole Technical	100	
	46.	6-Fluoro-2-methyl indole	75	
	47.	Fluxametamide	50	
	48.	HPOA HCl (2-hydroxy propyloxyamine hydro chloride)	50	
	49.	Paclobutrazol	100	

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions			Compliance Status
50.	Penoxsulam	60	
51.	Pymetrozine	300	
52.	Quizalofop-p-ethy	100	
53.	Tolfenpyrad	60	
	TOTAL	12200	
SR. NO.	NAME OF PRODUCTS (PESTICIDES FORMULATION)	QUANTITY(MT/ ANNUM)	
1.	PESTICIDE FORMULATION (SOLID)	6000	
2.	PESTICIDE FORMULATION (LIQUID)	6000	
SR. NO.	NAME OF PRODUCTS (PESTICIDES FORMULATION)	QUANTITY(MT/ ANNUM)	
1.	ALPHACYPERMETHRIN 10% EC	200	
2.	ALPHACYPERMETHRIN 10% SC	300	
3.	ALPHACYPERMETHRIN 10% EC	200	
4.	BIFENTHRIN 2.5%EC	300	
5.	BUTACHLOR 50% EC	400	
6.	BUTACHLOR 50% EW	500	
7.	CHLORMEQUAT CHLORIDE 67% SI	300	
8.	CHLORMEQUAT CHLORIDE 75% SI	300	
9.	CHLORPYRIFOS 50% + CYPERMETHRIN5% EC	300	
10.	CHLORPYRIFOS 50% EC	300	
11.	CHLORPYRIFOS 20% EC	500	
12.	CHLORPYRIFOS 48% EC	300	
13.	CLODINAFOP PROPARGYL 15% WP	400	
14.	CYPERMETHRIN 10% EC	500	
15.	CYPERMETHRIN 1.25% UIV	250	
16.	CYPERMETHRIN 25% EC	300	
17.	DICHLORVOS 76% EC	300	

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions				Compliance Status
18.	ETHION 40% + CYPERMETHRIN 5% EC	300		
19.	ETHION 50% EC	500		
20.	FENVALERATE 20% EC	300		
21.	FIPRONIL 20% EC	200		
22.	GLYPHOSATE 41% SI	300		
23.	HEXAACONAZOLE 5% EC	200		
24.	HEXAACONAZOLE 5% SC	200		
25.	IMIDACLOPRID 17.8% SI	300		
26.	IMIDACLOPRID 30.5% SC	360		
27.	IMIDACLOPRID 70% WG	300		
28.	INDOXACARB 14.5% SC	200		
29.	LAMBDA CYHALOTHRIN 2.5% EC	250		
30.	LAMBDA CYHALOTHRIN 5% EC	250		
31.	MELATHION 50% EC	200		
32.	METALAXYL 8 % + MANCOZEB 64 % WP	300		
33.	METRIBUZENE 70 % WP	300		
34.	PENDIMETHALINE 30 % EC	1000		
35.	PERMETHRIN 25 % EC	200		
36.	PHENTHOATE 50 % EC	200		
37.	PRETILACHLOR 30.7 & EC	200		
38.	PRETILACHLOR 50 % EC	200		
40.	SULFOSUFURON 75 % WG	200		
41.	THIAMETHOXAM 25 % WG	1000		
42.	TRIAZOPHOS 40 % EC	300		
43.	TRICYCLAZOLE 75 % WP	200		
44.	DELTAMETHRIN 2.8 % EC	200		
45.	PROPICONAZOLE 25 % EC	200		
46.	BIFENTHRIN 10 % EC	300		

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions				Compliance Status
47.	FIPRONIL 40 % + IMIDACLOPRID 40 % WG	300		
48.	FIPRONIL 80 % WG	100		
49.	FIPRONIL 5 % SC	250		
50.	LAMBDA CYHALOTHRIN 4.9 % WG	1000		
51.	DIURON 80 % WP	600		
52.	PRETILACHLOR 37 % EW	200		
53.	METSULFURON METHYL 20 % WP	100		
54.	FENPYROXIMATE 5 % EC	100		
55.	TEMEPHOS 50 % EC	100		
56.	THIMETHOXAM 30 % FS	300		
57.	IMIDACLOPROD 48 % FS	200		
58.	PENDIMATHALIN 38.7 % CS	300		
59.	DIFENTHUIRON 50 % WP	500		
60.	LAMBDA CYHALOTHRIN 10 % WP	300		
61.	THIAMETHOXAM 75 % W/W SG	50		
62.	BIFENTHRIN 8 % SC	200		
63.	AZOXYSTROBIN 23 % SC	200		
64.	CLODINAFOD PROPARGYL 15 % + METASULFURON METHYL 1 % WP	150		
65.	CLODINAFOD PROPARGYL 9 % + METRIBUZIN 20 % WP	150		
66.	ETHION 40 % + CYPERMETHRIN 5 % EC	300		
67.	INDOXACARB 14.5 % + ACETAMIPRID 7.7 % W/W SC	140		
68.	METSULFURON METHYL 10% W/W +CHLORIMURON ETHYL 10% WP	100		
69.	FENXAPROP-P-ETHYL 7.77% +METRIBUZIN 13.6% W/W EC	100		
70.	FENOXAPROP-P-ETHYL 9.3 % EC	100		
71.	FENOXAPROP-P-ETHYL 10% E.C.	100		
72.	THIAMETHOXAM 12.6% +LAMBDA- CYHALOTHRIN 9.5% ZC	200		

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions			Compliance Status
	73.	PROPICONAZOLE 10.7% + TRICYCLAZOLE 34.2% SE	100	
	74.	PROFENOFOS 40% + CYPERMETHRIN 4% E.C.	200	
	75.	NOVALURON 5.25 % + INDOXACARB 4.5% W/W SC	150	
	76.	PROFENOFOS 50% EC	200	
	77.	TEBUCONAZOLE 25.9% E.C	200	
	78.	CHLORPYRIFOS 40.8% EC	200	
	79.	CHLORPYRIFOS METHYL 50% EC	200	
	80.	ETHION 47% EC	300	
	81.	INDOXACARB 15% EC	200	
	82.	MALATHION 57% EC	300	
	83.	PERMETHRIN 35% EC	300	
	84.	PHENTHOATE 50% EC	200	
	85.	PROFENOFOS 50% EC	300	
	86.	PROPICONAZOLE 25% EC	300	
	87.	LAMBDA CYHALOTHRIN 2.5% CS	200	
		TOTAL	24000	
	SPECIFIC CONDITIONS:			
a)	Unit shall achieve zero liquid discharge before date 18/10/2023 as per specific condition no. A (iii) of EC dated 19/10/2020 and obtain necessary amendment in CTE/CCA accordingly.			Noted.
b)	Unit shall comply EC dated 19/10/2020 obtained from MoEF & CC, New Delhi.			Noted.
c)	Unit shall strictly adhere to notarized undertaking given dated 28/11/2022.			Noted.
d)	Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.			Noted.
e)	All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.			Noted.
f)	Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.			Noted.

Compliance Report of Consolidated Consent & Authorization (CC&A) Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027		
	Conditions	Compliance Status
g)	Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.	Noted.
h)	Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.	Noted.
i)	Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.	Noted.
j)	Unit shall comply GPCB office order dated 03/06/21 regarding APCM for SO2 emission control.	Noted.
k)	Unit shall not use /manufacture/formulate/sell any banned/prohibited pesticides.	Noted.
l)	Unit shall comply directions dated 05/03/22 under the water act, 1974 issued to your unit.	Noted.
m)	Unit shall comply order/direction of Hon.NGT in the matter of O.A.60/2022 (WZ).	Noted.
n)	Unit shall not send hazardous waste Spent Sulphuric Acid to fertilizer industry.	Noted.
3.	CONDITIONS UNDER THE WATER ACT:	
3.1	The quantity of total water consumption shall not exceed 1506 KL/Day as per below break up: a) Industrial: 1326 KL/Day b) Domestic: 120 KL/Day c) Gardening: 60 KL/Day	Unit follows the given condition.
3.2	The quantity of total Waste water consumption shall not exceed 951 KL/Day as per below break up a) Industrial: 851 KL/Day b) Domestic: 100 KL/Day	Unit follows the given condition.
3.3	Mode of Disposal: a) Industrial wastewater: High COD/TDS Stream: High COD/TDS wastewater generated from process shall be treated in ETP-1, Stripper, MEE followed by VTFD. Low COD/TDS Stream: Low COD/TDS wastewater including MEE/VTFD condensate shall be treated in ETP-2 (P+S+T) followed by RO. RO Permeate shall be reused in cooling tower and balance quantity shall be sent to GIDC effluent collection system Line-Dahej Vilayat Pipeline/Common Disposal system upto the sea for final disposal at NIO designated point.RO Reject shall be sent to MEE. b) Unit shall detoxify wastewater before feeding it to MEE. c) Domestic wastewater (100 KLD) shall be treated in STP. After conforming following norms, treated	Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions	Compliance Status																																							
	domestic wastewater shall be utilized in either on land for irrigation/utility purpose within premises or discharged into GIDC effluent collection system Line-Dahej Vilayat pipeline/Common Disposal System up to the sea. <table><tr><th>Parameters</th><th>Norms</th></tr><tr><td>pH</td><td>6.5 to 8.5</td></tr><tr><td>TSS</td><td><100 mg/l</td></tr><tr><td>Fecal Coliform (MPN/100 ml)</td><td><1000 MPN/100 ml</td></tr><tr><td>BOD(3 days 27 degree C)</td><td>< 30 mg/l</td></tr></table>	Parameters	Norms	pH	6.5 to 8.5	TSS	<100 mg/l	Fecal Coliform (MPN/100 ml)	<1000 MPN/100 ml	BOD(3 days 27 degree C)	< 30 mg/l																														
Parameters	Norms																																								
pH	6.5 to 8.5																																								
TSS	<100 mg/l																																								
Fecal Coliform (MPN/100 ml)	<1000 MPN/100 ml																																								
BOD(3 days 27 degree C)	< 30 mg/l																																								
3.4	The quantity of treated industrial wastewater disposal to GIDC sewer line-Dahej Vilayat Pipeline shall not exceed 693 KLD.	Unit follows the given condition.																																							
3.5	The quality of industrial effluent shall conform to the following standards (For discharge into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point) <table><tr><th>Sr. No.</th><th>PARAMETERS</th><th>PERMISSIBLE LIMIT</th></tr><tr><td>1</td><td>pH</td><td>6 to 9</td></tr><tr><td>2</td><td>Temperature</td><td>Shall not exceed more than 5 °C above receiving water temperature</td></tr><tr><td>3</td><td>Total Suspended Solids</td><td>100 mg/l</td></tr><tr><td>4</td><td>Oil and Grease</td><td>10 mg/l</td></tr><tr><td>5</td><td>Phenolic Compounds</td><td>5 mg/l</td></tr><tr><td>6</td><td>Cyanide (as CN)</td><td>0.2 mg/l</td></tr><tr><td>7</td><td>Fluorides (as F)</td><td>15 mg/l</td></tr><tr><td>8</td><td>Sulphides (as P)</td><td>5.0 mg/l</td></tr><tr><td>9</td><td>Total Residual Chlorine</td><td>1.0 mg/l</td></tr><tr><td>10</td><td>Ammonical Nitrogen (as N)</td><td>50 mg/l</td></tr><tr><td>11</td><td>Total Kjeldahl Nitrogen (TKN)</td><td>50 mg/l</td></tr><tr><td>12</td><td>Nitrate Nitrogen</td><td>50 mg/l</td></tr></table>	Sr. No.	PARAMETERS	PERMISSIBLE LIMIT	1	pH	6 to 9	2	Temperature	Shall not exceed more than 5 °C above receiving water temperature	3	Total Suspended Solids	100 mg/l	4	Oil and Grease	10 mg/l	5	Phenolic Compounds	5 mg/l	6	Cyanide (as CN)	0.2 mg/l	7	Fluorides (as F)	15 mg/l	8	Sulphides (as P)	5.0 mg/l	9	Total Residual Chlorine	1.0 mg/l	10	Ammonical Nitrogen (as N)	50 mg/l	11	Total Kjeldahl Nitrogen (TKN)	50 mg/l	12	Nitrate Nitrogen	50 mg/l	Unit follows the given condition.
Sr. No.	PARAMETERS	PERMISSIBLE LIMIT																																							
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Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions				Compliance Status
	13	Biochemical Oxygen demand [3 day at 270C]	100 mg/l	
	14	Chemical Oxygen Demand	250 mg/l	
	15	Arsenic (as AS)	0.2 mg/l	
	16	Mercury (as Hg)	0.01 mg/l	
	17	Lead (as Pb)	0.1 mg/l	
	18	Cadmium (as Cd)	0.05 mg/l	
	19	Trivalent Chromium	2.0 mg/l	
	20	Hexavalent Chromium (as Cr± 6)	0.1 mg/l	
	21	Copper (as Cu)	3.0 mg/l	
	22	Zinc (as Zn)	15 mg/l	
	23	Selenium (as Se)	0.05 mg/l	
	24	Nickel (as Ni)	3.0 mg/l	
	25	Manganese (as Mn)	2 mg/l	
	26	Iron (as Fe)	3 mg/l	
	27	Vanadium (as V)	0.2 mg/l	
	28	Bio assay test	90% survival of fish after 96 hours in 100% effluent	
3.6	The effluent conforming to the above standards shall be discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point.			Unit follows the given condition.
3.7	Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks/ HDPE tanks.			Unit follows the given condition.
3.8	Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.			Unit follows the given condition.
3.9	Unit shall provide online monitoring system for pH, TOC and other parameters with recorder & magnetic flow meter for flow measurement of treated wastewater, if applicable as per CPCB norms.			Unit follows the given condition.
3.10	Unit shall have only one authorized outlet over the ground with full access from outside the premises.			Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions	Compliance Status
3.11	In case of shut-down of plant for more than three (3) days for any reason, member unit shall intimate to GIDC/ Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.	Unit follows the given condition.
3.12	Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of Pipeline.	Unit follows the given condition.
3.13	Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the underground drainage network of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system.	Unit follows the given condition.
3.14	Unit shall affix of water meters as per for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.	Unit follows the given condition.
3.15	Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point.	Unit follows the given condition.
3.16	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/ partners / directors of the unit, GIDC Pipeline Project membership number & date of joining of GIDC Pipeline Project membership, the electricity consumer number as on the record of DGVCL.	Unit follows the given condition.
3.17	Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises, if applicable as per CPCB norms.	Unit follows the given condition.
3.18	Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system specified by GPCB.	Unit follows the given condition.
3.19	The authorized representative of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.	Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A) Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027		
	Conditions	Compliance Status
3.20	Unit shall have to keep accurate records of quality & quantity of effluent discharged to GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.	Unit follows the given condition.
3.21	Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.	Unit follows the given condition.
3.22	In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion; air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.	Unit follows the given condition.
3.23	Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.	Unit follows the given condition.
3.24	Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system.	Unit follows the given condition.
3.25	If the GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system Project authority terminates the membership of Pipeline Project, the member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the membership is resumed.	Unit follows the given condition.
3.26	The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment 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 issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.	Unit follows the given condition.
3.27	The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.	Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions			Compliance Status																																	
3.28	The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.			Unit follows the given condition.																																	
4.	CONDITION UNDER AIR ACT																																				
4.1	The following shall be used as fuel: <table><tr><td>Sr. No.</td><td>Fuel</td><td>Quantity</td></tr><tr><td>1</td><td>Natural Gas</td><td>10000 SM3/Day</td></tr><tr><td>2</td><td>Coal</td><td>60MT/Day</td></tr><tr><td>3</td><td>HSD</td><td>5KL/Day</td></tr></table>			Sr. No.	Fuel	Quantity	1	Natural Gas	10000 SM3/Day	2	Coal	60MT/Day	3	HSD	5KL/Day	Unit follows the given condition.																					
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1	Natural Gas	10000 SM3/Day																																			
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4.2	The flue gas emission through stack shall conform to the following standards: <table><tr><th>Stack No.</th><th>Stack attached to</th><th>Stack Height</th><th>APCM</th><th>Parameter</th><th>Permissible limit</th></tr><tr><td>1</td><td>Boiler (Cap:18 MT/hr)</td><td rowspan="4">30 m (Common Stack)</td><td rowspan="2">Common ESP + Dosing (Dry Scrubber)</td><td rowspan="7">PM SO2 NOx</td><td rowspan="7">150 mg/NM3 100 ppm 50 ppm</td></tr><tr><td>2</td><td>Boiler (Cap:12MT/hr) (Standby)</td></tr><tr><td>3</td><td>Thermic Fluid Heater (Cap:4 Lac Kcal /hr)</td><td rowspan="2">MDC with each TFH+ Common Bag Filter</td></tr><tr><td>4</td><td>Thermic Fluid Heater (Cap:4Lac Kcal /hr) (Standby)</td></tr><tr><td>5</td><td>DG Set-1 (Cap:750KVA) (Standby)</td><td>11 m</td><td>--</td></tr><tr><td>6</td><td>DG Set-2 (Cap:750KVA) (Standby)</td><td>11 m</td><td>--</td></tr><tr><td>7</td><td>DG Set-3 (Cap:750KVA)</td><td>11 m</td><td>--</td></tr></table>			Stack No.	Stack attached to	Stack Height	APCM	Parameter	Permissible limit	1	Boiler (Cap:18 MT/hr)	30 m (Common Stack)	Common ESP + Dosing (Dry Scrubber)	PM SO2 NOx	150 mg/NM3 100 ppm 50 ppm	2	Boiler (Cap:12MT/hr) (Standby)	3	Thermic Fluid Heater (Cap:4 Lac Kcal /hr)	MDC with each TFH+ Common Bag Filter	4	Thermic Fluid Heater (Cap:4Lac Kcal /hr) (Standby)	5	DG Set-1 (Cap:750KVA) (Standby)	11 m	--	6	DG Set-2 (Cap:750KVA) (Standby)	11 m	--	7	DG Set-3 (Cap:750KVA)	11 m	--	Unit follows the given condition.		
Stack No.	Stack attached to	Stack Height	APCM	Parameter	Permissible limit																																
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Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

	Conditions							Compliance Status
		(Standby)						
4.3	The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards.							Unit follows the given condition.
	Sr. No.	Stack Attached to	Height	APCM	Parameter	Permissible Limit		
	1	Process Vent-1	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	HCl Cl2 SO2 HBr Br2	20 mg/Nm3 5 mg/Nm3 40 mg/Nm3 5 mg/Nm3 2 mg/Nm3		
	2	Process Vent-2	15 m	Caustic Scrubber with Blower	HCl Cl2 VOC	20 mg/Nm3 5 mg/Nm3 --		
	3	Process Vent-3	15 m	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	H2S	5 mg/Nm3		
	4	Process Vent-4	15 m	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO2	20 mg/Nm3 40 mg/Nm3		
	5	Process Vent-5	15 m	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO2	20 mg/Nm3 40 mg/Nm3		

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions							Compliance Status
6	Process Vent-6	15 m	Primary Scrubber Secondary Scrubber Ventury Scrubber with Caustic	HCl SO2	20 mg/Nm3 40 mg/Nm3		
7	Process Vent-7	15 m	Blower with Bag filter	PM	20 mg/Nm3		
8	Process Vent-8	15 m	Blower with Bag filter	PM	20 mg/Nm3		
9	General Stack-1	15 m	Primary Scrubber with Caustic Circulation	VOC	--		
10	General Stack-2	15 m	Primary Scrubber with Caustic Circulation	VOC	--		
11	General Stack-3	15 m	Primary Scrubber with Caustic Circulation	VOC	--		
12	General Stack-4	15 m	Primary Scrubber with Caustic Circulation	VOC	--		
13	General Stack-5	15 m	Primary Scrubber with Blower	VOC	--		
14	General Stack-6	15 m	Primary Scrubber with Caustic Circulation	HCl Cl2	20 mg/Nm3 5 mg/Nm3		
15	General Stack-7	15 m	Scrubber	DMA	--		
16	General Stack-8	15 m	Primary Scrubber Secondary Scrubber Blower with Caustic	NaCN	--		
17	General Stack-9	15 m	Primary Scrubber with Caustic Circulation	VOC	--		
18	General Stack-10	15 m	Primary Scrubber	VOC	--		

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions							Compliance Status
				with Caustic Circulation			
	19	General Stack-11	15 m	Primary Scrubber with Caustic Circulation	VOC	--	
4.4	The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.						Unit follows the given condition.
	Sr. No. Parameters		Permissible Limit (microgram /m3)				
			Annual	24 Hours Average			
	1.	Particulate Matter (PM10)	60	100			
	2.	Particulate Matter (PM2.5)	40	60			
	3.	Oxides of Sulphur (SOx)	50	80			
	4.	Oxides of Nitrogen (NOx)	40	80			
	• Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.						
	• 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.						
4.5	Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.						
4.6	The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.						Unit follows the given condition.
4.7	Unit 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.						Unit complies with the given condition.
4.8	Unit 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 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.						Unit follows the given condition.
4.9	All efforts shall be made to control VOC emissions and odor problem, if any.						Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A) Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027					
	Conditions				Compliance Status
5	GENERAL CONDITIONS: -				
5.1	In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.				Noted
5.2	Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.				Unit follows the given condition.
5.3	Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/ partners / directors of the unit and the electricity consumer number as on the record of DGVCL.				Unit follows the given condition.
6	AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).				
6.1	Number of authorization: AWH-123779 date of Issue 11/01/2023.				Noted
6.2	M/s. Bharat Rasayan Limited is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at PLOT NO: 42/4, GIDC Dahej, Tal: Vagra, Dist : Bharuch.				Unit follows the given condition.
	Sr. No.	Name of Haz. Waste	Category Number	Quantity	
	1	Used Oil	5.1	5.05 MTPA	
	2	Discarded containers, barrels, liners, Contaminated with hazardous waste/chemicals	33.1	649 MTPA	
	3	ETP Sludge and MEE Sludge	35.3	9550 MTPA	Collection, Storage, Transportation, disposal at approved TSDF Site

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions						Compliance Status
4	Process Waste/ Waste Residue containing Pesticides	29.1	2066 MTPA	Collection, Storage, Transportation, disposal to CHWIF or Pre-processing/Co-processing facility.		
5.	Date expired and off-specification on residues	29.3	5.0 MTPA	Collection, Storage, Transportation, disposal at CHWIF.		
6	Distillation Residues from contaminated organic solvents	36.1	72 MTPA	Collection, Storage, Transportation, disposal to CHWIF or Pre-processing/Co-processing facility.		
7	Stripper Solvent	29.1	500 MTPA	Collection, Storage, Transportation, disposal to CHWIF or Pre-processing/Co-processing facility.		
8	Spent acid, Dilute sulfuric Acid and Hydrochloric Acid	B15	5178 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.		
9	Ammonium Sulphate solution	B-15	510 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.		
10	Potassium Chloride Solution	B-10	5768 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.		
11	Potassium Chloride Solids	B-10	290 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.		
12	Aq. Alum (Aqueous Aluminum Chloride Sol'n)	B-10	9175 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.		
13	Sodium Bromide Solution	B-10	2225 MTPA	Collection, Storage, Transportation, disposal by selling to Actual end users		

Compliance Report of Consolidated Consent & Authorization (CC&A)
Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027

Conditions						Compliance Status
					having Rule-9 permission & valid CCA after making MoU.	
14	Potassium Bromide Solution	B-10	3776 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
15	Sodium Sulfit Solution	B-15	3349 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
16	Sodium Sulfit Solids	B-15	203 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
17	Sodium bisulfide (Sodium Hydrogen Sulfide) Solution	B-15	1018 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
18	Mix solvents and formaline	29.4	120 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
19	Di-methylamine (DMA) Solution 40%	B-28	196 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
20	Hydrobromic Acid	B-10	430 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	
21	Acetic Acid	B-28	7 MTPA		Collection, Storage, Transportation, disposal by selling to Actual end users having Rule-9 permission & valid CCA after making MoU.	

Compliance Report of Consolidated Consent & Authorization (CC&A) Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027						
	Conditions					Compliance Status
					CCA after making MoU.	
22	Methane Sulphonic Acid	B-28	22 MTPA		Collection, Neutralization, Storage, Transportation, Disposal at CHWIF site or Pre-processing/Co-processing facility.	
23	ST Cypermethric Acid(STCMA)	B-28	59 MTPA		Collection, Neutralization, Storage, Transportation, Disposal at CHWIF site or Pre-processing/Co-processing facility.	
24	Used Catalyst	29.5	0.3 MTPA		Collection, Storage, Transportation, disposal at approved TSDF Site	
25	Phosphorous Salt (NaH ₂ PO ₄)	C-2	129.5 MTPA		Collection, Storage, Transportation, disposal at approved TSDF Site	
6.3	The authorization is granted to operate a facility as above.					Noted
6.4	The authorization shall be in force for a period up to 10/10/2027.					Noted
6.5	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.					Noted
7	TERMS AND CONDITIONS OF AUTHORISATION:					
7.1	The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.					Unit follows the given condition.
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.					Noted
7.3	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.					Noted & Agreed.
7.4	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.					Noted & Agreed.
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;					Unit follows the given condition.

Compliance Report of Consolidated Consent & Authorization (CC&A) Consent Order No. AWH-123779, Dated: 11/01/2023 Valid up to 10/10/2027		
	Conditions	Compliance Status
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 Waste and Penalty"	Unit follows the given condition.
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.	Noted & Agreed.
7.8	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.	Unit follows the given condition.
7.9	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Unit follows the given condition.
7.10	The hazardous and other waste 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.	Unit follows the given condition.
7.11	The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.	Unit follows the given condition.
7.12	An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.	Unit follows the given condition.
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.	Unit follows the given condition.
7.14	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	Unit follows the given condition.
7.15	Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.	Unit agrees with the given condition.
7.16	Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.	Unit follows the given condition.
7.17	Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.	Unit follows the given condition.

**By Speed Post/Online**

F. No. J-11011/ 961/2008-IA-II(I)

Government of India
Ministry of Environment, Forest and Climate Change
 Impact Assessment Division

Indira Paryavaran Bhawan,
 Vayu Wing, 3rd Floor, Aliganj,
 Jor Bagh Road, New Delhi-110 003

Dated: 19th October, 2020

To,

M/s Bharat Rasayan Limited (Unit-II)

Plot No. 42/4, Amod Road,
 Dahej-I GIDC Industrial Estate,
 District Bharuch, Gujarat
 Email: brldahej@bharatgroup.co.in

Sub: Expansion of agrochemicals and their intermediates manufacturing unit from 12,300 TPA to 29,200 TPA by M/s Bharat Rasayan Limited (Unit-II), located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, Gujarat - Environmental Clearance regarding

Sir,

This has reference to your online proposal No. IA/GJ/IND2/114039/2008 dated 7th September 2019 and 7th July 2020 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of agrochemicals and their intermediates manufacturing unit from 12,300 TPA to 29,200 TPA by M/s Bharat Rasayan Limited (Unit-II) in an area of 105106.75 sqm, located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, Gujarat

3. The details of existing and proposed products and capacity are as under: -

S No.	Name of Product	CAS No.	Existing (TPA)	Proposed (TPA)	Total (TPA)	End Use	LD50 - Oral (Rat) mg/kg	Remarks
1.	2,4-D-Ethyl Ester	533-23-3	0	700	700	Weedicide	650 - 800	New Product
2.	4-acetyl-2-methylbenzoic acid (AMBA)	55860-35-0	0	50	50	Intermediate	>300 (Mouse)	New Product
3.	Atrazine	1912-24-9	0	400	400	Herbicide	2220	New Product
4.	Azoxystrobin Technical	131860-33-8	0	200	200	Fungicide	>2000	New Product

5.	Bispyribac Sodium salt	125401-92-5	0	200	200	Herbicide	2635	New Product
6.	Butachlor Technical	23184-66-9	0	1000	1000	Herbicide	1740	New Product
7.	Carfentrazone-ethyl	128639-02-1	0	50	50	Herbicide	5143	New Product
8.	Cartap Hydrochloride	15263-52-2	0	300	300	Insecticide	250	New Product
9.	Cypermethric acid chloride (CMAC)	52314-67-7	0	2000	2000	Intermediate	>600	New Product
10.	Isopropyl 5-chloro-4-Methyl-2-nitrobenzoate (CMNBP)	1204518-43-3	0	100	100	Intermediate	>500	New Product
11.	Cymoxanil Technical (98%)	57966-95-7	0	300	300	Fungicide	1100	New Product
12.	3,6-dichloropyridazin-4-ol (DCHD)	2779-81-9	0	100	100	Intermediate	>200 (Fish)	New Product
13.	Deltamethrin Technical	52918-63-5	0	300	300	Insecticide	>5000	New Product
14.	Fenoxaprop-P-ethyl	71283-80-2	0	200	200	Herbicide	3150 - 4000	New Product
15.	Fenpropathrin Technical (90% min)	64257-84-7	0	150	150	Insecticide	1000 (Skin & Eye)	New Product
16.	Halosulfuron-methyl	100784-20-1	0	50	50	Herbicide	8866	New Product
17.	2-hydroxypropyloxymin hydrochloride (HPOA HCl)	950595-72-9	0	100	100	Intermediate	>300 (Mouse)	New Product
18.	Icaridin	119515-38-7	0	15	15	Insecticide	4743	New Product
19.	Imibenconazole	86598-92-7	0	100	100	Fungicide	2800	New Product
20.	Isofetamid	875915-78-9	0	100	100	Fungicide	1302 - 6690	New Product
21.	Lambda Cyhalothric Acid	72748-35-7	0	1000	1000	Intermediate	980	New Product

22.	M,N,O-1,2 dimethyl-N-nitrosoarea	255708-80-8	0	100	100	Inter-mediate	>500	New Product
23.	Paclobutrazol	76738-62-0	0	50	50	Plant growth regulator	1300	New Product
24.	Penoxsulam	219714-96-2	0	100	100	Herbicide	>5000	New Product
25.	Picoxystrobin Technical	117428-22-5	0	50	50	Fungicide	>5000	New Product
26.	Pymetrozine	123312-89-0	0	100	100	Insecticide	>5000	New Product
27.	Pyrithiobac Sodium	123343-16-8	0	50	50	Herbicide	3300	New Product
28.	Spiromesifen Technical	283594-90-1	0	50	50	Insecticide	>2500	New Product
29.	Thifluzamide	130000-40-7	0	170	170	Fungicide	>6500	New Product
30.	Thiodicarb Technical (94%)	59669-26-0	0	150	150	Insecticide	120	New Product
31.	Thiophanate-methyl	23564-05-8	0	200	200	Fungicide	6640	New Product
32.	Tolfenpyrad	129558-76-5	0	50	50	Insecticide	260 – 386	New Product
33.	Topramezone	210631-68-8	0	50	50	Herbicide	>2000	New Product
34.	Zeta Cypermethrin	52315-07-8	0	350	350	Insecticide	>5000	New Product
35.	Zineb	12122-67-7	0	200	200	Fungicide	1850 – 8900	New Product
36.	Dimefluthrin Technical	271241-14-6	0	15	15	Insecticide	>2000	New Product
37.	Meperfluthrin Technical	915288-13-0	0	8	8	Insecticide	>2000	New Product
38.	Pilot products#	--	0	100	100	--	--	New Product
39.	Acetamiprid Technical	135410-20-7	100	500	600	Insecticide	217	Expansion
40.	Alpha Cypermethrin Technical	67375-30-8	100	300	400	Insecticide	>2000 (Skin & Eye)	Expansion

41.	4-acetyl-2-methylbenzamide (AMBAD)	109527-5-06-1	25	75	100	Intermediate	>300 (Mouse)	Expansion
42.	Bifenthrin Technical	82657-04-3	100	600	700	Insecticide	>2000 (Rabbit) (Dermal)	Expansion
43.	Chlorpyrifos-methyl Technical	5598-13-0	100	400	500	Insecticide	3000	Expansion
44.	Clodinafop Propargyl Technical	105512-06-9	250	50	300	Herbicide	1392	Expansion
45.	Cypermethrin Technical	52315-07-8	400	800	1200	Insecticide	7180	Expansion
46.	Chlorimuron Ethyl Technical (95%)	90982-32-4	10	15	25	Herbicide	4102	Expansion
47.	Diafenthiuron Technical	80060-09-9	300	500	800	Insecticide	2068	Expansion
48.	Propanil Technical	709-98-8	50	100	150	Herbicide	367	Expansion
49.	Diuron Technical	330-54-1	900	300	1200	Herbicide	3400	Expansion
50.	Difenoconazole Technical	119446-68-3	50	250	300	Fungicide	1453	Expansion
51.	3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	130336-16-2	25	75	100	Intermediate	>300 (Mouse)	Expansion
52.	Ethion Technical	563-12-2	700	300	1000	Insecticide	1084	Expansion
53.	Fipronil Technical	120068-37-3	60	540	600	Insecticide	>2000 (Skin & Eye)	Expansion
54.	Fenpyroximate Technical	134098-61-6	15	10	25	Insecticide	245	Expansion
55.	Isoprothiolane Technical (96%)	50512-35-1	100	50	150	Fungicide	1190	Expansion
56.	Imidacloprid Technical	138261-41-3	250	350	600	Insecticide	410	Expansion

57.	Indoxacarb Technical	144171-61-9	20	80	100	Insectic ide	268	Expansion
58.	Imazethapyr Technical (97%)	81335-77-5	50	50	100	Herbicid e	>5000	Expansion
59.	Lambda Cyhalothrin Technical	91465-08-6	600	400	1000	Insectic ide	632 – 696 (Skin & Eye)	Expansion
60.	m- Phenoxybenza ldehyde	39515-51-0	2200	90	2290	Inter- mediate	1222	Expansion
61.	Metsulfuron- methyl Technical	74223-64-6	20	10	30	Herbicid e	>5000	Expansion
62.	Metribuzin Technical	21087-64-9	300	600	900	Herbicid e	1100	Expansion
63.	Novaluron Technical	116714-46-6	10	90	100	Insectic ide	>5000	Expansion
64.	Propargite Technical	2312-35-8	25	75	100	Insectic ide	2800	Expansion
65.	Pendimethalin Technical	40487-42-1	600	400	1000	Herbicid e	3956	Expansion
66.	Phenthoate Technical	2597-03-7	400	100	500	Insectic ide	435	Expansion
67.	Permethrin Technical	52645-53-1	250	250	500	Insectic ide	383	Expansion
68.	Pretilachlor Technical	51218-49-6	100	400	500	Herbicid e	2200	Expansion
69.	Pyrazosulfuro n-ethyl Technical (97%)	93697-74-6	25	25	50	Herbicid e	>5000	Expansion
70.	Sulfosulfuron Technical	141776-32-1	20	30	50	Herbicid e	>5000	Expansion
71.	Tricyclazole Technical	41814-78-2	200	100	300	Fungici de	250	Expansion
72.	Transfluthrin Technical	118712-89-3	60	90	150	Insectic ide	>5000	Expansion
73.	Thiamethoxa m Technical	153719-23-4	600	400	1000	Insectic ide	1563	Expansion

74.	Tebuconazole Technical (93%)	107534-96-3	100	500	600	Fungicide	1700	Expansion
75.	Flumethrin Technical	69770-45-2	15	15	30	Insecticide	500 – 1000	Expansion
76.	Imiprothrin Technical	72963-72-5	8	12	20	Insecticide	2400	Expansion
77.	Metofluthrin Technical	240494-70-6	4	18	22	Insecticide	>2000	Expansion
78.	Flumethric Acid	88419-72-1	15	35	50	Intermediate	>5000	Expansion
79.	Propoxy Ethyl Chloride	42149-74-6	100	100	200	Intermediate	204	Expansion
80.	Fenvalerate Technical	51630-58-1	200	0	200	Insecticide	451	No change
81.	Hexaconazole Technical	79983-71-4	150	0	150	Fungicide	>2000 (Dermal)	No change
82.	m-Phenoxybenzyl Alcohol	13826-35-2	400	0	400	Intermediate	1496	No change
83.	Myclobutanil Technical	88671-89-0	15	0	15	Fungicide	1600	No change
84.	Prallethrin Technical	23031-36-9	25	0	25	Insecticide	640	No change
85.	Profenofos Technical	41198-08-7	200	0	200	Insecticide	358	No change
86.	Propiconazole Technical	60207-90-1	150	0	150	Fungicide	1517	No change
87.	Cloquintocet-mexyl Technical (Safener Technical)	99607-70-2	50	0	50	Herbicide	>2000	No change
88.	Temephos Technical	3383-96-8	50	0	50	Insecticide	1000	No change
89.	Triclopyr Technical	55335-06-3	50	0	50	Herbicide	630	No change
90.	Methanesulfonamide, N-(2-cyanophenyl)-1,1,1-trifluoro (TSBN)	53718-42-6	50	0	50	Intermediate	>300 (Mouse)	No change

91.	Amitraz Technical	33089-61-1	60	0	60	Insecticide	400	No change
92.	Bromobenzene	108-86-1	250	0	250	Intermediate	2383	No change
93.	Buprofezin Technical	69327-76-0	140	(-140)	0	Insecticide	2198	Discontinue
94.	Chlorpyrifos Technical	2921-88-2	910	(-910)	0	Insecticide	135 - 163	Discontinue
95.	Dichlorvos Technical	62-73-7	150	(-150)	0	Insecticide	435	Discontinue
96.	Glyphosate Technical	1071-83-6	50	(-50)	0	Herbicide	>5000	Discontinue
97.	Paraquat Technical	4685-14-7	43	(-43)	0	Herbicide	113	Discontinue
98.	Triazophos Technical	24017-47-8	100	(-100)	0	Insecticide	>2000 (skin & eye)	Discontinue
Total			12300	16900	29200			
Formulation Products								
1.	Pesticide Formulation (Solid)		6000	0	6000	--	--	No Change
2.	Pesticide Formulation (Liquid)		6000	0	6000	--	--	No Change
Note: # Pilot products shall be carried out for the betterment of proposed products (Sr. No.1 to 37) only. Hence, Total pollution load from Pilot products shall be disposed to common incinerator.								

4. Existing land area is 105106.75 sqm. No additional land area will be required. Industry has already developed greenbelt in an area of ~33.10 % i.e. 34792.00 sqm. out of total area of the project. The estimated project cost is Rs.200 Crore (for expansion only) & existing investment is Rs.90.15 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs.16 Crore and the Recurring cost (operation and maintenance) will be about Rs.27.20 Crore per annum (for expansion only). Total Employment will be of 1500 persons after expansion.

5. Total water requirement is 3122 m³/day of which fresh water requirement of 1512 m³/day will be met from GIDC supply. Industrial Effluent of 1815 m³/day will be treated through Effluent Treatment Plant (ETP). 150 m³/day cooling tower blowdown will be treated through RO/Filtration and approx.. 130 m³/day RO permeate shall be used as makeup water for cooling tower. 20 m³/day RO reject shall be treated in MEE system. 800 m³/day industrial effluent will be treated through pre-treatment, stripper and MEE system. 760 m³/day MEE condensate and 865 m³/day industrial effluent shall be treated in ETP. 783 m³/day ETP treated effluent will be treated through RO, MEE and approximately 564 m³/day RO permeate and 209 m³/day MEE condensate shall be used as make-up water in Boiler. Treated effluent (837 m³/day) from ETP shall be passed through cartridge filter and 700 KLD shall be used for processing, APCM and

washing purpose and 137 KLD shall be used as cooling tower make-up. Domestic effluent of 100 m³/day will be treated through Sewage Treatment Plant (STP).

6. Power requirement after expansion will be 7000 KVA including existing 2500 KVA and will be met from M/s. Dakshin Gujarat Vij Company Ltd. (DGVCL). Existing unit has 2 Nos. DG set of 750 KVA capacity of each, additionally 2 Nos. DG sets of 1500 KVA of each will be used as standby during power failure for proposed expansion. Existing 1 No. DG set of 750 KVA shall be discontinued after expansion. Stack (15 m Height) will be provided as per CPCB norms. Existing unit has Multi fuel boilers (1 No. 18 MT/h & 1 No. 12 MT/h standby) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each - 1 operational + 1 standby). Additionally, Multi fuel boiler (1 No. 25 MT/h) and Thermic Fluid Heaters (2 Nos. 4 Lakh kcal/h each) will be installed. ESP shall be provided to Boilers and Bag filter shall be provided to Thermic Fluid Heaters with online CEMS on its stack (40 m height) for continuous monitoring. Natural gas OR Furnace Oil & Coal is used as Fuel for MFBs & TFHs, HSD is used as Fuel for DG Set and same will be used after expansion.

7. The project/activity is covered under category A of item 5 (b) 'Pesticides industry and pesticide specific intermediates (excluding formulations)' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

8. The ToR was granted by the Ministry vide letter dated 11th April, 2019. Public hearing is exempted as per para 7(i), III. Stage (3), (i)(b) of the EIA Notification, 2006, and in accordance with the Ministry's OM dated 27th April 2018, as the project site is located in the notified industrial area. No litigation is pending against the proposal.

9. The Ministry had issued EC earlier vide letter No. No. J-11011/961/2008-IA-II(I); dated 13th July, 2009 for manufacturing of agrochemicals manufacturing unit in favour of M/s Siris Crop Science Limited, the said EC further transferred to the name of M/s. Bharat Rasayan Limited (Unit-II) on 5th September, 2012 and amendment in EC granted for product mix change on 5th September, 2012. Further, the corrigendum granted on 10th January, 2013. The Certified compliance report dated 2nd July, 2019 on the compliance status of the EC conditions has been forwarded by the Ministry's Regional Office at Bhopal. Further, the Regional office of the Ministry has forwarded the Action taken report on partial complied points vide email dated 15th April, 2020. The Committee deliberated the compliance report and found in order.

10. The proposal was earlier considered by the EAC in its meetings held during October 2019, February 2020, April 2020 & May, 2020 followed by site visit. The Sub-Committee, in its report recommended for consideration of project for grant of EC with certain actions/compliances. Based on the complete information submitted by the PP, the proposal was again considered by the EAC in its 22nd meeting held on **17-19 August, 2020** in the Ministry, wherein the project proponent and their consultant M/s. Siddhi Green Excellence Pvt. Ltd. presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

11. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP



EC for M/s Bharat Rasayan Limited (Unit-II)

report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

12. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. Additional information submitted by the project proponent to be satisfactory and addressing the concerns of the Committee. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

13. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

14. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of agrochemicals and their intermediates manufacturing unit from 12,300 TPA to 29,200 TPA by M/s Bharat Rasayan Limited (Unit-II), located at Plot No. 42/4, Amod Road, Dahej-I GIDC Industrial Estate, Dahej, District Bharuch, Gujarat**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition

- (i) The Sub-Committee of EAC has visited the Unit and suggested certain actions/compliances. The Project Proponent shall implement all the recommendations of the Sub-Committee w.r.t. control of emission, layout design, risk assessment & its mitigation measures. The Committee, after deliberation, also recommended that the layout of the project shall be audited by reputed Organization to safeguard of the environment. The audited report shall be submitted before the EAC/Ministry within 6 months.
- (ii) The company shall 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.
- (iii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured within 03 years for existing as well as expansion project and afterwards no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment.

- (iv) Total fresh water requirement shall not exceed 1512 cum/day, proposed to be met from GIDC. Necessary permission obtained in this regard shall be renewed from time to time. The fresh water demand shall be reduced by 10% using rain water harvesting system.
- (v) As proposed 0.75% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for education including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (vi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (vii) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For ZLD, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (viii) Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
- (ix) Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (x) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (xi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (xii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
- (xiii) Solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

- (xiv) Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xv) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xvi) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xvii) 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.

14.1. : General Condition:

- (i) 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/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) 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. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) 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.

- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.

15. 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.

16. 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.

17. 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.



18. 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.

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

19/10/2020

(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(डा. आर. बी. लाल)

(Dr. R. B. LAL)

वैज्ञानिक 'ई'/Scientist 'E'

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Min. of Environment, Forest and Climate Change

भारत सरकार, नई दिल्ली

Govt. of India, New Delhi

Copy to:-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat)
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal - 462 016 (M P)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh road, New Delhi
6. District Magistrate, Bharuch, Gujarat
7. Guard File/Monitoring File/Parivesh portal/Record File

(Dr. R. B. Lal)

Scientist 'E'/Additional Director

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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A) CCA NO: AWH- AWH-123779

NO: GPCB/BRCH/CCA-50(16)/ID-33612/

DT: /03/2023

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) Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P) Act-1986.

And whereas Board has received consolidated application dated 03/08/2022 and inward no. 261562 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

CONSOLIDATED CONSENT AND AUTHORIZATION:

(Under the provisions / rules of the aforesaid Environmental Acts)

To,
M/s. Bharat Rasayan Limited,
Plot No: 42/4,
GIDC Dahej - 392130,
Tal: Vagra, Dist-Bharuch.

1. Consent Order No. : AWH-123779 date of Issue 11/01/2023.
2. The consent under Water Act-1974 for conveying the industrial effluent discharge to GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid up to 10/10/2027 to operate industrial plant to manufacture following products:

Sr. No.	Products (Technical)	Quantity (MT/Annum)
1.	4-acetyl-2-methylbenzamide (AMBAD)	25
2.	Alpha Cypermethrin Technical	300
3.	Bifenthrin Technical	100
4.	Chlorimuron Ethyl Technical (95%)	10
5.	Chlorpyrifos Methyl Technical	250
6.	Clodinafop Propargyl Technical	250
7.	Cypermethrin acid chloride (CMAC)	1000
8.	Cypermethrin Technical	800
9.	3',5'-Dichloro-2,2,2-trifluoroacetophenone (DCAP)	25
10.	Diafenthiuron Technical	400
11.	Difenoconazole Technical	100
12.	Diuron Technical	900
13.	Ethion Technical	700
14.	Fenvalerate Technical	78
15.	Fenpyroximate Technical	15
16.	Fipronil Technical	60
17.	Flumethic Acid	15

18.	Flumethrin Technical	15
19.	Imazethapyr Technical (97%)	50
20.	Imibenconazole	50
21.	Imiprothrin Technical	8
22.	Isoprothiolin Technical (96%)	100
23.	Lambda Cyhalothrin Acid	350
24.	Lambda Cyhalothrin Technical	600
25.	MetaphenoxyBenzaldehyde	1750
26.	Metaphenoxy Benzyl Alcohol	200
27.	Metofluthrin Technical	4
28.	Metribuzine Technical	400
29.	Metsulphuron Methyl Technical	20
30.	Myclobutanil Technical	15
31.	Novaluron Technical	10
32.	Pendimethalin Technical	600
33.	Permethrin Technical	250
34.	Phenthoate Technical	400
35.	Prallethrin Technical	25
36.	Propargite Technical	25
37.	Pyrazosulfuron Ethyl Technical (97%)	25
38.	Sulfosulfuron Technical	20
39.	Tebuconazole Technical (93%)	300
40.	Thiamethoxam Technical	750
41.	Transfluthrin Technical	60
42.	Tricyclazole Technical	25
43.	Pilot products	75
44.	Profenofos Technical	150
45.	Propiconazole Technical	100
46.	6-Fluoro-2-methyl indole	75
47.	Fluxametamide	50
48.	HPOA HCl (2-hydroxy propyloxymine hydro chloride)	50
49.	Paclobutrazol	100
50.	Penoxsulam	60
51.	Pymetrozine	300
52.	Quizalofop-p-ethy	100
53.	Tolfenpyrad	60
TOTAL		12200
Sr. No.	PRODUCTS (PESTICIDES FORMULATION)	QUANTITY (MT/ANNUM)
1	PESTICIDES FORMULATION (SOLID)	6000
2	PESTICIDES FORMULATION (LIQUID)	6000
Sr. No.	PRODUCTS (PESTICIDES FORMULATION)	QUANTITY (MT/ANNUM)
1.	ALPHACYPERMETHRIN 10% EC	200
2.	ALPHACYPERMETHRIN 10% SC	300
3.	ALPHACYPERMETHRIN 20% EC	200



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

4.	BIFENTHRIN 2.5% EC	300
5.	BUTACHLOR 50% EC	400
6.	BUTACHLOR 50% EW	500
7.	CHLORMEQUAT CHLORIDE 67% SL	300
8.	CHLORMEQUAT CHLORIDE 75% SL	300
9.	CHLORPYRIFOS 50% + CYPERMETHRIN 5% EC	300
10.	CHLORPYRIFOS 50% EC	300
11.	CHLORPYRIPHOS 20% EC	500
12.	CHLORPYRIPHOS 48% EC	300
13.	CLODINAFOF PROPARGYL 15% WP	400
14.	CYPERMETHRIN 10% EC	500
15.	CYPERMETHRIN 1.25% ULV	250
16.	CYPERMETHRIN 25% EC	300
17.	DICHLORVOS 76% EC	300
18.	ETHION 40% + CYPERMETHRIN 5% EC	300
19.	ETHION 50% EC	500
20.	FENVALERATE 20% EC	300
21.	FIPRONIL 20% EC	200
22.	GLYPHOSATE 41% SL	300
23.	HEXAACONAZOLE 5% EC	200
24.	HEXAACONAZOLE 5% SC	200
25.	IMIDACLOPRID 17.8% SL	300
26.	IMIDACLOPRID 30.5% SC	360
27.	IMIDACLOPRID 70% WG	300
28.	INDOXACARB 14.5% SC	200
29.	LAMBDA CYHALOTHRIN 2.5% EC	250
30.	LAMBDA CYHALOTHRIN 5% EC	250
31.	MALATHION 50% EC	200
32.	METALAXYL 8% + MANCOZEB 64% WP	300
33.	METRIBUZENE 70% WP	300
34.	PENDIMETHALIN 30% EC	1000
35.	PERMETHRIN 25% EC	200
36.	PHENTHOATE 50% EC	200

37.	PRETILACHLOR 30.7% EC	200
38.	PRETILACHLOR 50% EC	200
39.	PROPANIL 35% EC	200
40.	SULFOSULFURON 75% WG	200
41.	THIAMETHOXAM 25% WG	1000
42.	TRIAZOPHOS 40% EC	300
43.	TRICYCLAZOLE 75% WP	200
44.	DELTAMETHRIN 2.8% EC	200
45.	PROPICONAZOLE 25% EC	200
46.	BIFENTHRIN 10% EC	300
47.	FIPRONIL 40% + IMIDACLOPRID 40% WG	300
48.	FIPRONIL 80% WG	100
49.	FIPRONIL 5% SC	250
50.	LAMBDAHALOTHHRIN 4.9% CS	1000
51.	DIURON 80% WP	600
52.	PRETILACHLOR 37% EW	200
53.	METSULFURON METHYL 20% WP	100
54.	FENPYROXIMATE 5% EC	100
55.	TEMEPHOS 50% EC	100
56.	THIAMETHOXAM 30% FS	300
57.	IMIDACLOPRID 48% FS	200
58.	PENDIMATHALIN 38.7% CS	300
59.	DIFENTHUIRON 50% WP	500
60.	LAMBDAHALOTHHRIN 10% WP	300
61.	THIAMETHOXAM 75% W/W SG	50
62.	BIFENTHRIN 8% SC	200
63.	AZOXYSTROBIN 23% SC	200
64.	CLODINAFOPPROPARGYL 15% + METSULFURON METHYL 1% WP	150
65.	CLODINAFOPPROPARGYL 9% + METRIBUZIN 20% WP	150
66.	ETHION 40% + CYPERMETHRIN 5% EC	300
67.	INDOXACARB 14.5% + ACETAMIPRID 7.7% W/W SC	140
68.	METSULFURON METHYL 10% W/W + CHLORIMURON	100



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

	ETHYL 10% WP	
69.	FENXAPROP-P-ETHYL 7.77% + METRIBUZIN 13.6% W/W EC	100
70.	FENOXAPROP-P-ETHYL 9.3% EC	100
71.	FENOXAPROP-P-ETHYL 10% E.C.	100
72.	THIAMETHOXAM 12.6% + LAMBDA-CYHALOTHRIN 9.5% ZC	200
73.	PROPICONAZOLE 10.7% + TRICYCLAZOLE 34.2% SE	100
74.	PROFENOFOS 40% + CYPERMETHRIN 4% E.C.	200
75.	NOVALURON 5.25% + INDOXACARB 4.5% W/W SC	150
76.	PROFENOFOS 50% EC	200
77.	TEBUCONAZOLE 25.9% E.C	200
78.	CHLORPYRIFOS 40.8% EC	200
79.	CHLORPYRIFOS METHYL 50% EC	200
80.	ETHION 47% EC	300
81.	INDOXACARB 15% SC	200
82.	MALATHION 57% EC	300
83.	PERMETHRIN 35% EC	300
84.	PHENTHOATE 50% EC	200
85.	PROFENOFOS 50% EC	300
86.	PROPICONAZOLE 25% EC	300
87.	LAMBDA CYHALOTHRIN 2.5% CS	200
TOTAL		24000

SPECIFIC CONDITIONS:

- Unit shall achieve Zero Liquid Discharge (ZLD) before date 18/10/2023 as per specific condition no. A (iii) of EC dated 19/10/2020 and obtain necessary amendment in CTE/CCA accordingly.
- Unit shall comply EC dated 19/10/2020 obtained from MoEF & CC, New Delhi.
- Unit shall strictly adhere to notarized undertaking given dated 28/11/2022.
- Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.
- All the efforts shall be made to send hazardous waste to Pre-processing/Co-processing facility & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.

- i) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.
- j) Unit shall comply GPCB office order dated 03/06/21 regarding APCM for SO₂ emission control.
- k) Unit shall take adequate measures to control VOC emission/odour nuisance.
- l) Unit shall not use/manufacture/formulate/sell any banned/prohibited Pesticides.
- m) Unit shall comply directions dated 05/03/22 under the Water Act, 1974 issued to your unit.
- n) Unit shall comply order/direction of Hon. NGT in the matter of O.A. 60/2022 (WZ).
- o) Unit shall not send hazardous waste Spent Sulphuric Acid to Fertilizer industry.

3. CONDITION UNDER THE WATER ACT:

3.1 The quantity of total water consumption shall not exceed **1506 KL/Day** as per below break up:

- a) Industrial: 1326 KL/Day
- b) Domestic: 120 KL/Day
- c) Gardening: 60 KL/Day

3.2 The quantity of total waste water generation shall not exceed **951 KL/Day** as per below break up:

- a) Industrial: 851 KL/Day
- b) Domestic: 100 KL/Day

3.3 Mode of Disposal:

a) Industrial wastewater:

High COD/TDS Stream:

High COD/TDS wastewater generated from process shall be treated in ETP-1, Stripper, MEE followed by VTFD.

Low COD/TDS Stream:

Low COD/TDS wastewater including MEE/VTFD condensate shall be treated in ETP-2 (P+S+T) followed by RO. RO Permeate shall be reused in cooling tower and balance quantity shall be sent to GIDC effluent collection system Line - Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point. RO Reject shall be sent to MEE.

- b) Unit shall detoxify wastewater before feeding it to MEE.
- c) Domestic wastewater (100 KLD) shall be treated in STP. After conforming following norms, treated domestic wastewater shall be utilized in either on land for irrigation/ utility purpose within premises or discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system up to the sea.

Parameters	Norms
pH	6.5 to 8.5
TSS	< 100 mg/l
Fecal Coliform (MPN/100ml)	<1000 MPN/100ml
BOD (3 days 27 degree C)	<30 mg/l

3.4 The quantity of treated industrial wastewater disposal to GIDC sewer line - Dahej Vilayat Pipeline shall not exceed 693 KLD.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 3.5 The quality of industrial effluent shall conform to the following standards (For discharge into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point).

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6 to 9
2	Temperature	Shall not exceed more than 5°C above receiving water temperature
3	Total Suspended Solids	100 mg/l
4	Oil and Grease	10 mg/l
5	Phenolic Compounds	5 mg/l
6	Cyanide	0.2 mg/l
7	Fluorides	15 mg/l
8	Sulphides	5 mg/l
9	Total Residual Chlorine	1 mg/l
10	Ammonical Nitrogen	50 mg/l
11	Total Kjeldahl Nitrogen	50 mg/l
12	Nitrate Nitrogen	50 mg/l
13	Biochemical Oxygen demand [3 day at 27°C]	100 mg/l
14	Chemical Oxygen Demand	250 mg/l
15	Arsenic	0.2 mg/l
16	Mercury	0.01 mg/l
17	Lead	0.1 mg/l
18	Cadmium	0.05 mg/l
19	Trivalent Chromium	2 mg/l
20	Hexavalent Chromium (as Cr+6)	0.1 mg/l
21	Copper	3 mg/l
22	Zinc	15 mg/l
23	Selenium	0.05 mg/l
24	Nickel	3 mg/l
25	Manganese	2 mg/l
26	Iron	3 mg/l
27	Vanadium	0.2 mg/l
28	Bio assay test	90% survival of fish after 96 hours in 100% effluent

- 3.6 The effluent conforming to the above standards shall be discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point.
- 3.7 Unit shall be required to make storage facilities to store the effluent for at least 48 hours by providing acid proof brick lined impervious tanks/HDPE tanks.
- 3.8 Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.
- 3.9 Unit shall provide online monitoring system for pH, TOC and other parameters with recorder & magnetic flow meters for flow measurement of treated wastewater, if applicable as per CPCB norms.

- 3.10 Unit shall have only one authorized outlet over the ground with full access from outside the premises.
- 3.11 In case of shut-down of plant for more than three (3) days for any reason, member unit shall intimate to GIDC/ Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.
- 3.12 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of Pipeline.
- 3.13 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the underground drainage network of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system.
- 3.14 Unit shall affix of water meters as per for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.15 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point.
- 3.16 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, GIDC Pipeline Project membership number & date of joining of GIDC Pipeline Project membership, the electricity consumer number as on the record of DGVCL.
- 3.17 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises, if applicable as per CPCB norms.
- 3.18 Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system specified by GPCB.
- 3.19 The authorized representative of GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.
- 3.20 Unit shall have to keep accurate records of quality & quantity of effluent discharged to GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.21 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.22 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.

- 3.23 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.24 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system.
- 3.25 If the GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system Project authority terminates the membership of Pipeline Project, the member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the membership is resumed.
- 3.26 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment 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 issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.
- 3.27 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 3.28 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity
1.	Natural Gas	10000 SM ³ /Day
2.	Coal	60 MT/Day
3.	HSD	5 KL/Day

- 4.2 The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack Attached to	Stack Height	APCM	Parameter	Permissible Limit
1	Boiler (Cap: 18 MT/hr)	30 m (Common Stack)	Common ESP + Lime Dosing (Dry Scrubber)	PM SO ₂ NOx	150 mg/Nm ³ 100 ppm 50 ppm
2	Boiler (Cap: 12 MT/hr) (Stand-By)				
3	Thermic Fluid Heater (Cap: 4 lac Kcal/hr)		MDC with each TFH + Common Bag filter		
4	Thermic Fluid Heater (Cap: 4 lac Kcal/hr) (Stand-By)				
5	DG Set - 1 (Cap: 750 KVA) (Stand-By)	11 m	--		

Stack No.	Stack Attached to	Stack Height	APCM	Parameter	Permissible Limit
6	DG Set - 2 (Cap: 750 KVA) (Stand-By)	11 m	--	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
7	DG Set - 3 (Cap: 750 KVA) (Stand-By)	11 m	--		

4.3 The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards:

Stack No.	Stack Attached to	Stack Height	APCM	Parameter	Permissible Limit
1	Process Vent - 1	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	HCl Cl ₂ SO ₂ HBr Br ₂	20 mg/Nm ³ 5 mg/Nm ³ 40 mg/Nm ³ 5 mg/Nm ³ 2 mg/Nm ³
2	Process Vent - 2	15 m	Caustic Scrubber with Blower	HCl Cl ₂ VOC	20 mg/Nm ³ 5 mg/Nm ³ --
3	Process Vent - 3	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	H ₂ S	5 mg/Nm ³
4	Process Vent - 4	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
5	Process Vent - 5	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
6	Process Vent - 6	15 m	Primary Scrubber, Secondary Scrubber, Ventury Scrubber with Caustic	HCl SO ₂	20 mg/Nm ³ 40 mg/Nm ³
7	Process Vent - 7	15 m	Blower with Bag Filter	PM	20 mg/Nm ³
8	Process Vent - 8	15 m	Blower with Bag Filter	PM	20 mg/Nm ³



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,
GANDHINAGAR - 382010,
(T) 079-23232152

Stack No.	Stack Attached to	Stack Height	APCM	Parameter	Permissible Limit
9	General Stack - 1	15 m	Primary Scrubber with Caustic Circulation	VOC	--
10	General Stack - 2	15 m	Primary Scrubber with Caustic Circulation	VOC	--
11	General Stack - 3	15 m	Primary Scrubber with Caustic Circulation	VOC	--
12	General Stack - 4	15 m	Primary Scrubber with Caustic Circulation	VOC	--
13	General Stack - 5	15 m	Primary Scrubber with Caustic Blower	VOC	--
14	General Stack - 6	15 m	Primary Scrubber with Caustic Circulation	HCl Cl ₂	20 mg/Nm ³ 5 mg/Nm ³
15	General Stack - 7	15 m	Scrubber	DMA	--
16	General Stack - 8	15 m	Primary Scrubber, Secondary Scrubber, Blower with Caustic	NaCN	--
17	General Stack - 9	15 m	Primary Scrubber with Caustic Circulation	VOC	--
18	General Stack - 10	15 m	Primary Scrubber with Caustic Circulation	VOC	--
19	General Stack - 11	15 m	Primary Scrubber with Caustic Circulation	VOC	--

- 4.4 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

- **24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.**
- 4.5 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.6 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.7 Unit 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.
- 4.8 Unit 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 75 dB(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.
- 4.9 All efforts shall be made to control VOC emissions and odor problem, if any.
- 5. **GENERAL CONDITIONS: -**
- 5.1 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 5.2 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 5.3 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record of DGVCL.
- 6. **AUTHORIZATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).**
- 6.1 Number of authorization: AWH-123779 date of Issue 11/01/2023.
- 6.2 **M/s. Bharat Rasayan Limited** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 42/4, GIDC Dahej, Tal: Vagra, Dist: Bharuch.**

Sr. No.	Name of Haz. Waste	Category Number	Quantity	Facility
1	Used Oil	5.1	5.05 MTPA	Collection, Storage, Reuse, Transportation & Disposal by sending to authorized recyclers or re-processor.
2	Discarded containers, barrels, liners contaminated with hazardous waste / chemicals	33.1	649 MTPA	Collection, Storage, Decontamination/Detoxification, Reuse or Transportation and disposal by sending to authorized Decontamination facility.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

3	ETP Sludge and MEE sludge	35.3	9550 MTPA	Collection, Storage, Transportation, Disposal at approved TSDF site.
4	Process Waste / Waste Residue containing Pesticides	29.1	2066 MTPA	Collection, Storage, Transportation, Disposal to CHWIF or Pre-processing/Co-processing facility.
5	Date expired and off - specification on residues	29.3	5 MTPA	Collection, Storage, Transportation, Disposal at CHWIF.
6	Distillation Residues from contaminated organic solvents	36.1	72 MTPA	Collection, Storage, Transportation, Disposal at CHWIF site or Pre-processing/Co-processing facility.
7	Stripper Solvent	29.1	500 MTPA	Collection, Storage, Transportation, disposal at CHWIF or Pre-processing/Co-processing facility.
8	Spent Acid, Dilute Sulphuric Acid & Hydrochloric Acid (25% to 30% Solution)	B-15	5178 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
9	Ammonium Sulphate Solution	B-15	510 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
10	Potassium Chloride Solution	B-10	5768 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
11	Potassium Chloride Solids	B-10	290 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
12	Aq. Alum (Aqueous Aluminum Chloride solution)	B-10	9175 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
13	Sodium Bromide Solution	B-10	2225 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users

				having Rule-9 permission & valid CCA after making MoU.
14	Potassium Bromide Solution	B-10	3776 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
15	Sodium Sulfit Solution	B-15	3349 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
16	Sodium Sulfit Solids	B-15	203 MTPA	
17	Sodium Bisulfide (Sodium Hydrogen Sulfide) Solution	B-15	1018 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
18	Mix solvents and formaline	29.4	120 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
19	Di-methyl amine (DMA) Solution 40%	B-28	196 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
20	Hydrobromic Acid	B-10	430 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
21	Acetic Acid	B-28	7 MTPA	Collection, Storage, Transportation & Disposal by sending to actual end users having Rule-9 permission & valid CCA after making MoU.
22	Methane Sulphonic Acid	B-28	22 MTPA	Collection, Neutralization Storage, Transportation, Disposal at CHWIF site or Pre-processing/Co-processing facility.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

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23	ST Cypermethric Acid (STCMA)	B-28	59 MTPA	Collection, Neutralization Storage, Transportation, Disposal at CHWIF site or Pre-processing/Co-processing facility.
24	Used Catalyst	29.5	0.3 MTPA	Collection, Storage, Transportation and Disposal at approved TSDF site.
25	Phosphorous Salt (NaH_2PO_4)	C-2	129.5 MTPA	Collection, Storage, Transportation and Disposal at approved TSDF site.

- 6.3 The authorization is granted to operate a facility as above.
6.4 The authorization shall be in force for a period up to **10/10/2027**.
6.5 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.

7. TERMS AND CONDITIONS OF AUTHORIZATION:

- 7.1 The authorized person 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 person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
7.4 Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his 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 Waste 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 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
7.10 The hazardous and other waste 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.
7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.

- 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 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

**FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD**

**(IRFAN KAGZI)
ENVIRONMENT ENGINEER**

Outward No: 736558, 16/03/2023



O/C



**Bharat
RASAYAN LIMITED**

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

BRL-Dahej/ DIR/GPCB/2023-24/01

Date: 15/05/2023

GPCB ID: 33612

To,
Unit Head-Bharuch Region
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector - 10 A,
Gandhinagar - 382010.

Subject: Submission of Form – III & Form - IV for the period April 2022 to March 2023

Respected Sir,

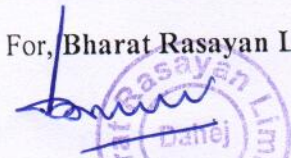
With Reference to the above mentioned subject, we are submitting herewith Form – III & Form - IV (Hazardous Waste Return) for the period of April - 2022 to March – 2023.

We hope you will find it in order.

Thanking You.

Sincerely Yours,

For, Bharat Rasayan Ltd.


Authorized Signatory

Encl.: As Above.

CC To,

Regional Office,
Gujarat Pollution Control Board
Bharuch


Post Received
Gujarat Pollution Control Board
BHARUCH

CIN : L24119DL1989PLC036264

Regd. Off. : 1501, Vikram Tower, Rajendra Place, New Delhi - 110008

Ph. : +91-11-43661111 (30 lines) • Fax : +91-11-43661100, 41538600

E-mail : info@bharatgroup.co.in • Website : www.bharatgroup.co.in

FORM 3

[See rule 6(5), 13(7), 14(6), 16(5) and 20(1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES**GPCB ID : 33612****Period: April-2022 to March-2023**

1. **Name and Address of the Facility :** M/s. Bharat Rasayan Ltd. (Old Name: Siris Crop Science Ltd)
Plot No.: 42/4, GIDC Dahej,
Amod road, Dahej,
Dist: Bharuch
2. **Date of Issuance of Authorization : and its Reference Number** Consent Order No. AWH-123779
Dated:16/03/2023 and Valid up to: 10/10/2027
3. **Description of Hazardous Waste and other Wastes handled (Generated or Received):**

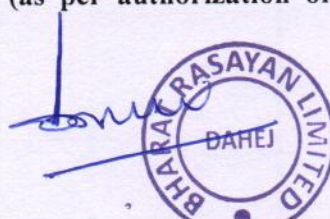
Date	Type of Waste with Category as per Schedule I, II and III of this rules	Total Quantity (Metric Tons)	Method of Storage	Destined to or Received from
April 2022 to March 2023	Used Oil Cat. 5.1	10.16	Packed into Drums and stored at Dedicated Storage Area having impervious flooring	Registered Recycler/Refiners/Reprocessors
	Discarded containers, barrels, liners contaminated with hazardous waste / chemicals Cat. 33.1	50.26	Stored at Dedicated Storage Area having impervious flooring	Reuse/Disposed through register recyclers
	ETP Sludge and MEE sludge Cat. 35.3	8340.66	Stored at Dedicated Storage Area having impervious flooring	TSDf Site
	Process Waste / Waste Residue containing Pesticides Cat. 29.1	1779.63	Packed into Drums and stored at Dedicated Storage Area having impervious flooring	Sent for Incineration/ Co-processing
	Coal Ash from Boiler	1237	Stored at dedicated Storage Area	Actual end user
	Spent acid, Dilute sulfuric Acid and Hydrochloric Acid Cat. B-15	183.32	Stored in dedicated storage tank	Actual end user



Potassium Chloride Solid Cat. B-10	4212.62	Packed into bag & stored at dedicated storage area	Actual end user
Potassium Chloride Solution Cat. B-10		Stored in dedicated storage tank	Actual end user
Aq. Alum (Aqueous Aluminum Chloride Sol'n) Cat. B-10	9697.10	Stored in dedicated storage tank	Actual end user
Sodium Sulfit Sol'n / Solids Cat. B-15	307.74	Packed into bag & stored at dedicated storage area	Actual end user
Sodium bi sulfide (Sodium Hydrogen Sulfide) Solution Cat. B-15	751.43	Stored in dedicated storage tank	Actual end user
Mix Solvents & formaline	64.97	Stored in dedicated storage tank	Actual end user

4. Date wise description of management of hazardous and other waste including products sent and to whom in case of recycler or re-processors or utilizers.
Refer Annexure-1

5. Date of environmental monitoring (as per authorization or guideline of Central pollution Control Board)
NA



Signature of Occupier:

Date: 15/05/2023

Place: DAHEJ



Annexure-1

Hazardous Waste Details 2022-23					
Used Oil – Cat. 5.1					
Sr. No.	Month	Opening Stock MT	Generation MT	Disposal Qty. MT	Closing Stock MT
1	Apr-22	1.07	0.00	0.00	1.07
2	May-22	1.07	0.00	0.00	1.07
3	Jun-22	1.07	0.00	0.00	1.07
4	Jul-22	1.07	0.00	0.00	1.07
5	Aug-22	1.07	4.60	0.00	5.67
6	Sept-22	5.67	0.00	0.00	5.67
7	Oct-22	5.67	4.50	0.00	10.16
8	Nov-22	10.16	0.0	5.56	4.60
9	Dec-22	4.60	0.0	4.60	0.00
10	Jan-23	0.00	0.00	0.00	0.00
11	Feb-23	0.00	0.00	0.00	0.00
12	Mar-23	0.00	0.00	0.00	0.00

Hazardous Waste Details 2022-23					
Discarded containers, barrels, liners contaminated with hazardous waste / chemicals Cat. 33.1					
Sr. No.	Month	Opening Stock MT	Generation MT	Disposal Qty. MT	Closing Stock MT
1	Apr-22	4.26	0.00	0.95	3.31
2	May-22	3.31	0.00	0.00	3.31
3	Jun-22	3.31	0.00	0.00	3.31
4	Jul-22	3.31	0.00	0.00	3.31
5	Aug-22	3.31	0.00	0.00	3.31
6	Sept-22	3.31	0.00	0.00	3.31
7	Oct-22	3.31	0.50	3.60	0.21
8	Nov-22	0.21	1.00	0.00	1.21
9	Dec-22	1.21	4.50	5.16	0.55
10	Jan-23	0.55	15.00	8.50	7.06
11	Feb-23	7.06	10.00	6.57	10.49
12	Mar-23	10.49	15.00	20.07	5.42



Hazardous Waste Details 2022-23					
ETP Sludge and MEE Sludge – Cat. 35.3					
Sr. No.	Month	Opening Stock MT	Generation MT	Disposal Qty. MT	Closing Stock MT
1	Apr-22	40.66	1300.00	1268.64	72.02
2	May-22	72.02	1250.00	1279.45	42.58
3	Jun-22	42.58	400.00	355.94	86.64
4	Jul-22	86.64	400.00	118.62	368.03
5	Aug-22	368.03	400.00	0.00	768.03
6	Sept-22	768.03	500.00	216.54	1051.49
7	Oct-22	1051.49	550.00	845.14	756.36
8	Nov-22	756.36	800.00	1549.05	7.31
9	Dec-22	7.31	950.00	940.17	17.14
10	Jan-23	17.14	600.00	479.16	137.99
11	Feb-23	137.99	600.00	634.08	103.91
12	Mar-23	103.91	550.00	410.48	243.43

Hazardous Waste Details 2022-23					
Process Waste / Waste Residue containing Pesticides– Cat. 29.1					
Sr. No.	Month	Opening Stock MT	Generation MT	Disposal Qty. MT	Closing Stock MT
				Incineration/ Co-processing	
1	Apr-22	9.63	115.00	119.61	5.02
2	May-22	5.02	170.00	169.08	5.95
3	Jun-22	5.95	120.00	84.10	41.85
4	Jul-22	41.85	100.00	103.50	38.36
5	Aug-22	38.36	130.00	118.43	49.93
6	Sept-22	49.93	150.00	164.87	35.07
7	Oct-22	35.07	190.00	198.57	26.50
8	Nov-22	26.50	150.00	157.06	19.44
9	Dec-22	19.44	175.00	191.67	2.77
10	Jan-23	2.77	175.00	150.84	26.93
11	Feb-23	26.93	175.00	197.33	4.60
12	Mar-23	4.60	120.00	115.30	9.31



Hazardous Waste Details 2022-23					
Spent acid, Dilute sulfuric Acid and Hydrochloric Acid – Cat. B-15					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	9.32	55.00	54.78	9.54
2	May-22	9.54	80.00	80.28	9.26
3	Jun-22	9.26	2.00	0.00	11.26
4	Jul-22	11.26	10.00	0.00	21.26
5	Aug-22	21.26	27.00	42.32	5.94
6	Sept-22	5.94	0.00	0.00	5.94
7	Oct-22	5.94	0.00	0.00	5.94
8	Nov-22	5.94	0.00	0.00	5.94
9	Dec-22	5.94	0.00	0.00	5.94
10	Jan-23	5.94	0.00	0.00	5.94
11	Feb-23	5.94	0.00	0.00	5.94
12	Mar-23	5.94	0.00	0.00	5.94

Hazardous Waste Details 2022-23					
Potassium Chloride Solution / Solid – Cat. B-10					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	2.62	435.00	425.64	11.98
2	May-22	11.98	300.0	279.20	32.79
3	Jun-22	32.79	0.00	27.27	5.52
4	Jul-22	5.52	330.0	326.45	9.07
5	Aug-22	9.07	260.0	259.20	9.87
6	Sept-22	9.87	400.0	403.77	6.10
7	Oct-22	6.10	550.0	501.45	54.65
8	Nov-22	54.65	400.0	392.01	62.64
9	Dec-22	62.64	340.0	394.57	8.07
10	Jan-23	8.07	375.0	321.99	61.08
11	Feb-23	61.08	405.0	447.15	18.94
12	Mar-23	18.94	415.0	425.15	8.82



Hazardous Waste Details 2022-23					
Aq. Alum (Aqueous Aluminum Chloride Sol'n) – Cat. B-10					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	12.10	890.0	892.96	9.14
2	May-22	9.14	650.00	652.49	6.65
3	Jun-22	6.65	0.00	0.00	6.65
4	Jul-22	6.65	540.00	542.48	4.17
5	Aug-22	4.17	1080.00	1074.54	9.63
6	Sept-22	9.63	780.00	787.21	2.43
7	Oct-22	2.43	1040.00	1021.86	20.57
8	Nov-22	20.57	980.00	914.49	86.08
9	Dec-22	86.08	875.00	958.17	2.91
10	Jan-23	2.91	1000.00	950.86	52.06
11	Feb-23	52.06	900.00	869.30	82.76
12	Mar-23	82.76	950.00	1027.58	5.19

Hazardous Waste Details 2022-23					
Sodium Sulfite Solution / Solid – Cat. B-15					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	5.74	115.00	115.54	5.21
2	May-22	5.21	90.00	67.78	27.43
3	Jun-22	27.43	0.00	25.13	2.30
4	Jul-22	2.30	0.00	0.00	2.30
5	Aug-22	2.30	14.00	13.69	2.61
6	Sept-22	2.61	0.00	0.00	2.61
7	Oct-22	2.61	12.00	12.13	2.48
8	Nov-22	2.48	0.00	0.00	2.48
9	Dec-22	2.48	16.00	15.29	3.19
10	Jan-23	3.19	20.00	18.82	4.37
11	Feb-23	4.37	19.00	16.92	6.46
12	Mar-23	6.46	16.00	18.57	3.88



Hazardous Waste Details 2022-23					
Sodium bi sulfide (Sodium Hydrogen Sulfide) Solution – Cat. B-15					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	5.43	70.00	70.75	4.68
2	May-22	4.98	70.00	68.25	6.43
3	Jun-22	6.43	0.00	0.00	6.43
4	Jul-22	6.43	0.00	0.00	6.43
5	Aug-22	6.43	40.00	36.37	10.06
6	Sept-22	10.06	55.00	50.59	14.48
7	Oct-22	14.48	90.00	93.23	11.25
8	Nov-22	11.25	121.00	106.34	25.91
9	Dec-22	25.91	75.00	81.38	19.54
10	Jan-23	19.54	60.00	70.86	8.68
11	Feb-23	8.68	85.00	88.42	5.26
12	Mar-23	5.26	80.00	81.79	3.47

Hazardous Waste Details 2022-23					
Mix solvents and formaline – Cat. B-28					
Sr. No.	Month	Opening Stock MT	Generation	Disposal Qty.	Closing Stock
			MT	MT	MT
1	Apr-22	2.97	5.00	0.00	7.97
2	May-22	7.97	0.00	0.00	7.97
3	Jun-22	7.97	0.00	0.00	7.97
4	Jul-22	7.97	0.00	0.00	7.97
5	Aug-22	7.97	5.00	0.00	12.97
6	Sept-22	12.97	10.00	0.00	22.97
7	Oct-22	22.97	7.00	0.00	29.97
8	Nov-22	29.97	5.00	0.00	34.97
9	Dec-22	34.97	5.00	15.90	24.07
10	Jan-23	24.07	9.00	31.73	1.33
11	Feb-23	1.33	7.00	6.31	2.02
12	Mar-23	2.02	9.00	7.18	3.84



FORM 4

[See rules 6(5), 13(8), 16(6) and 20(2)]

FORM FOR FILING ANNUAL RETURNS[To be submitted to state Pollution Control Board by 30th day of June of every year for the preceding period April 2022 to March 2023]

1	Name and address of facility	Bharat Rasayan Ltd (Old Name: Siris Crop Science Ltd) Plot No. 42/4, GIDC Dahej, Amod Road, Dahej. Dist Bharuch	
2	Authorization No. and date of Issue	Consent Order No. AWH-123779, Dated: 16/03/2023 and Valid up to: 10/10/2027	
3	Name of the authorized person and full address with telephone, fax number and e-mail	Ajay Gupta (Director Operations) Plot No. 42/4, GIDC Dahej, Amod Road, Dahej. Dist Bharuch Mobile No. 7046500020	
4	Production during the year (Product wise), wherever applicable	As Per Below Table	
	Name of the Product	Production April 2022 to March 2023	CCA Quantity MT/Yr.
	Alpha cypermethrin technical	48.793	300
	Bifenthrin technical	25.915	100
	Clodinafop	0	250
	Chlorimuron ethyl technical 95%	9.5	10
	Cypermethric acid chloride (cmac)	136.742	1000
	Cypermethrin technical	131.641	800
	Diafenthiuron technical	223.5	400
	Difenconazole technical	0	100
	Diuron technical	672.66	900
	Ethion technical	632.211	700
	Flumethrin technical	0	15
	HPOA HCl	3.575	50
	Imibenconazole	0	50
	Imiprothrin technical	0	8
	lambda cyhalothrin technical	597.23	600
	Metaphenoxy benzaldehyde	1712.44	1750
	Metaphenoxy benzyl alcohol	128.76	200
	Metribuzine technical	399.165	400
	Metsulphuron methyl technical	0	20
	Myclobutanil technical	0	15
	Pendimethalin technical	110.576	600
	Permethrin technical	25.66	250



Phenthoate technical	397.993	400
Paclobutazole Technical	0	100
Penoxsulam Technical	2	60
Sulfosulfuron Technical	9.785	20
Tebuconazole technical 93%	20.38	300
Thiamethoxam technical	633.76	750
Tolfenpyrad	44.6	60
Transfluthrin technical	0	60

Part A. To be filled by Hazardous Waste Generators

1	Total quantity of waste generated category wise	As Per Below Table		
	Sr. No	Waste	Quantity Generated	
	1	Used Oil	10.16 MT	
	2	Discarded containers, barrels, liners contaminated with hazardous waste / chemicals	50.26 MT	
	3	ETP Sludge and MEE sludge	8340.66 MT	
	4	Process Waste / Waste Residue containing Pesticides	1779.63 MT	
	5	Coal Ash from Boiler	1237 MT	
	6	Spent acid, Dilute sulfuric Acid and Hydrochloric Acid	183.32 MT	
	7	Potassium Chloride Solid	4212.62 MT	
	8	Potassium Chloride Solution		
	9	Aq. Alum (Aqueous Aluminum Chloride Sol'n)	9697.10 MT	
	10	Sodium Sulfite Solution	307.74 MT	
	11	Sodium Sulfite Solids		
	12	Sodium bi sulfide (Sodium Hydrogen Sulfide) Solution	751.43 MT	
13	Mix solvents and formaline	64.97 MT		
2	Quantity Dispatched	As Per Below Table		
	Type of Waste	To Disposal Facility	To Recycle or Co-Processors or Pre-Processor	Others (Registered Recyclers)
	Used Oil		10.16 MT	
	Discarded containers, barrels, liners contaminated with hazardous waste / chemicals			44.8 MT
	ETP Sludge and MEE sludge	8097.2 MT		



	Process Waste / Waste Residue containing Pesticides		1770.3 MT	
	Coal Ash from Boiler			1274 MT
	Spent acid, Dilute sulfuric Acid and Hydrochloric Acid			177.4 MT
	Potassium Chloride Solid			4203.8 MT
	Potassium Chloride Solution			
	Aq. Alum (Aqueous Aluminum Chloride Sol'n)			9691.9 MT
	Sodium Sulfite Solution			303.9 MT
	Sodium Sulfite Solids			
	Sodium bi sulfide (Sodium Hydrogen Sulfide) Solution			748.0 MT
	Mix solvents and formaline			61.1 MT
	3	Quantity Utilized in-house, if any	NA	
4	Quantity in Storage at the end of the year	As Per Below Table		
	Sr. No	Waste	Quantity Stored	
	1	Used Oil	0.00 MT	
	2	Discarded containers, barrels, liners contaminated with hazardous waste / chemicals	5.420 MT	
	3	ETP Sludge and MEE sludge	243.432 MT	
	4	Process Waste / Waste Residue containing Pesticides	9.306 MT	
	5	Coal Ash from Boiler	18 MT	
	6	Spent acid, Dilute sulfuric Acid and Hydrochloric Acid	5.945 MT	
	7	Potassium Chloride Solid	8.821 MT	
	8	Potassium Chloride Solution		
	9	Aq. Alum (Aqueous Aluminum Chloride Sol'n)	5.188 MT	
	10	Sodium Sulfite Solution	3.885 MT	
	11	Sodium Sulfite Solids		
	12	Sodium bi sulfide (Sodium Hydrogen Sulfide) Solution	3.475 MT	
13	Mix solvents and formaline	3.839 MT		

Part-B. To be filled by Treatment Storage and Disposal Facility Operators: Not Applicable.

1. Total Quantity Received-
2. Quantity in Stock at the beginning of the year-
3. Quantity Treated-
4. Quantity Disposal in Landfills as such and after Treatment-
5. Quantity Incinerated (if applicable)-
6. Quantity Processed other than Specified above-
7. Quantity in Storage at the end of the year-



Part C. To be filled by Recyclers or Co-Processors or other Users: Not Applicable.

1. Quantity of waste received during the year-
 - (i) Domestic Sources
 - (ii) Imported (If Applicable)
2. Quantity in Stock at the beginning of the year-
3. Quantity recycled or Co-Processed or used-
4. Quantity of Products Dispatched (Wherever Applicable)-
5. Quantity of Waste Generated-
6. Quantity of Waste Disposal-
7. Quantity re-exported (Wherever applicable)-
8. Quantity in Storage at the end of the year-

Date: 15/05/2022
Place: Dahej



Signature of the Occupier or
Operator of the Disposal Facility



Bharat RASAYAN LIMITED

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

BRL-Dahej/ DIR/GPCB/2023-24/02

Date: 15/05/2023

GPCB ID: 33612

To,
Unit Head-Bharuch Region
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector - 10 A,
Gandhinagar - 382010.

Subject: Submission of Environmental statement (Form-V) for the period April 2022 to March 2023

Respected Sir,

With Reference to the above mentioned subject, we are submitting herewith Environmental statement (Form-V) for the period of April-2022 to March-2023.

We hope you will find it in order.

Thanking You.

Sincerely Yours,

For, Bharat Rasayan Ltd.

Authorized Signatory

Encl.: As Above.

CC To,

Regional Office,
Gujarat Pollution Control Board
Bharuch

Post Received
Gujarat Pollution Control Board
BHARUCH

CIN : L24119DL1989PLC036264

Regd. Off. : 1501, Vikram Tower, Rajendra Place, New Delhi - 110008
Ph. : +91-11-43661111 (30 lines) • Fax : +91-11-43661100, 41538600
E-mail : info@bharatgroup.co.in • Website : www.bharatgroup.co.in

FORM- V
(See Rule 14)

Environmental Statement for the financial year ending on 31st March, 2023

PART- A

(i)	Name and address of the owner/ occupier of the industry operation or process.	:	Mr. Ajay Gupta – Director operations 42/4, Dahej Industrial Estate, GIDC, Dahej, Dist: Bharuch
(ii)	Industry category Primary-(STC Code) Secondary-(STC Code).	:	Red category, Large Scale
(iii)	Production capacity	:	As per Annexure - 1
(iv)	Year of establishment	:	2011
(v)	Date of the last environmental statement submitted	:	3 rd Sept, 2022

PART- B

Water and Raw Material Consumption

(i)	Water consumption m ³ /d	:	Avg. 399.103 m ³ /day
	Process	:	152.792 m ³ /day
	Cooling	:	155.008 m ³ /day
	Domestic + Gardening	:	91.303 m ³ /day

Sr. No.	Name of Products	Water consumption per unit of Product output	
		During the previous Financial Year (Ltrs/MT)	During the Current Financial Year (Ltrs/MT)
		21-22	22-23
1	Metaphenoxy Benzaldehyde	43032.013	42400.12
2	Ethion Technical	9954.625	9040.59
3	Phenthoate Technical	10686.440	10745.84
4	Thiomethoxam Technical	1668.900	887.25
5	Metaphenoxy Benzyl alcohol	00	0.00
6	Lambda Cyhalothrin Technical	13372.270	13371.88
7	Clodinafop propargyl Technical	968.115	0.00
8	Metribuzine Technical	14025.441	13072.65
9	Diuron Technical	373.079	2098.68
10	Cypermethrin Technical	4498.171	741.14
11	Metsulphuron Methyl Technical	367.393	0.00
12	Bifenthrin Technical	866.330	0.00
13	Myclobutanil Technical	25.088	0.00
14	Permethrin Technical	490.468	164.48



Sr. No.	Name of Products	Water consumption per unit of Product output	
		During the previous Financial Year (Ltrs/MT)	During the Current Financial Year (Ltrs/MT)
15	Diafenthiuron Technical	1981.03	1117.52
16	Transfluthrin Technical	369.779	0.00
17	Pendimethalin Technical	28605.728	6132.51
18	Tebuconazole Technical	52.451	264.94
19	Imibenconazole	00	0.00
20	Difenconazole Technical	35.375	0.00
21	Paclobutrazol	00	0.00
22	Tolfenpyrad	34.608	0.00
23	Clorimuron Ethyl Technical 95%	8.541	24.70
24	Flumethrin Technical	348.883	0.00
25	CMAC	00	1204.68
26	Alpha cypermethrin Technical	3541.292	699.69
27	Imiprothrin Technical	19.526	0.00
28	HPOA HCl	0.0	0.00
29	Penoxsulam Technical	0.0	0.00
30	Sulfosulfuron Technical	0.0	110.65

(ii) **Raw Material Consumption**

Name of raw material consume	Name of products	Consumption of raw material per unit
As per attached in Annexure-2		

PART- C

Pollution discharges to environment/ unit of output.

(Parameter as specified in the consent issued)

(i) Pollution	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards
a) Water	As per attached in Annexure-3.		
b) Air			



**PART- D
(HAZARDOUS WASTES)**

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year	During the current financial year
(a) From process: Incinerable waste	1845.221 MT	1779.63 MT
Discarded Containers/Barrels/Liners contaminated with HW	0.000 MT	50.26 MT
Used Spent Oil	2.245 MT	10.16 MT
(b) From pollution Control Facilities ETP – MEE Sludge	9752.315 MT	8340.66 MT

**PART- E
SOLID WASTES**

TOTAL QUANTITY (MT)		
	During the Previous Financial Year	During the Current Financial Year
(a) From Pollution Control Equipment	N.A.	N.A.
(b) From Process	NA	NA

PART- F

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

Process Waste: Disposed to Pre-processing at Banas Resources LLP-Dahej, GGEPII-Chittorgurh, BEIL ANK. & Co-processing at M/s. Shree Cement & Incineration at SEPPL-Kutchh.
B-Category HWs sent to actual end-users through MoU & online Manifest

Hazardous Waste: Disposed to BEIL- Dahej , SAFE ENVIRO PVT LTD -JAMBUSER

PART- G

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

Not applicable

PART- H

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

Additional RO plant are installed to increase recycling of water.



PART- I

Any other particulates in respect of environmental protection and abatement of pollution.

- 1). Tree plantation in and around the factory premises is done every year and more than 7500 nos. of plants developed.
- 2). Environmental awareness program at shop floor level is regularly arranged through Training, sharing of knowledge / information for prevention of environment pollution.

Dated: 15.05.2023

For, Bharat Rasayan Limited.

Authorized signature



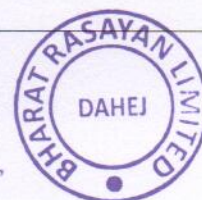
Annexure -1

Sr. No.	Product Name	Installed Capacity MT/Yr
1	Alpha cypermethrin technical	300
2	Bifenthrin technical	100
3	Clodinafop Propargyl Technical	250
4	Chlorimuron ethyl technical 95%	10
5	Cypermethric acid chloride (CMAC)	1000
6	Cypermethrin technical	800
7	Diafenthiuron technical	400
8	Difenconazole technical	100
9	Diuron technical	900
10	Ethion technical	700
11	Flumethrin technical	15
12	HPOA HCl	50
13	Imibenconazole	50
14	Imiprothrin technical	8
15	lambda cyhalothrin technical	600
16	Metaphenoxy benzaldehyde	1750
17	Metaphenoxy benzyl alcohol	200
18	Metribuzine technical	400
19	Metsulphuron methyl technical	20
20	Myclobutanil technical	15
21	Pendimethalin technical	600
22	Permethrin technical	250
23	Phenthoate technical	400
24	Paclobutazole Technical	100
25	Penoxsulam Technical	60
26	Sulfosulfuron Technical	20
27	Tebuconazole technical 93%	300
28	Thiamethoxam technical	750
29	Tolfenpyrad	60
30	Transfluthrin technical	60
31	Pesticide Formulation Liquid	1200

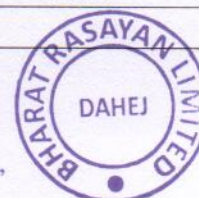


Annexure-2

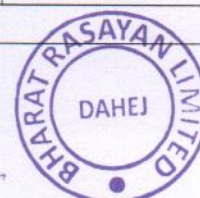
Sr. No.	Name of Product	Raw Material Name	Raw Material Consumption MT/Year
1	Alpha Cypermethrin Technical	Metaphenoxy Benzaldehyde	34.65
		Cypermethic Acid Chloride	40.50
		Sodium cyanide	9.76
		Catalyst	0.96
		Ethylene Dichloride	0.49
		Hexane	1.46
		Soda Ash	1.03
		TEA	2.10
		Acetic acid	5.32
		Caustic Lye 47%	8.59
		Sodium hypochlorite for washing	8.93
		Water	699.69
2	Bifenthrin Technical	Bifenthrin Alcohol	14.77
		SOCl ₂	8.81
		Toluene (Fresh + Recovered)	7.77
		Lambda Cyhalothric Acid	16.33
		Caustic Soda	5.96
		Potassium Carbonate	9.33
		Dimethyl Formamide (DMF) (Fresh + recovered)	29.28
		Hexane (Fresh + Recovered)	44.06
		Water	226.24
3	Clodinafop Propargyl Technical	Propargyl Alcohol	0.00
		Thionyl Chloride	0.00
		Dimethyl Formamide (DMF) (Fresh + Recovered)	0.00
		Caustic Soda Lye	0.00
		2-(4-hydroxy phenoxy propionic Acid) (HPPA)	0.00
		5-Chloro 2,3 difluoro pyridine (CDFP)	0.00
		Potassium carbonate	0.00
		Ethyl Alcohol	0.00
		Activated Carbon	0.00
		Water	0.00
4	Clorimuron Ethyl Technical 95%	Saccharin	5.51
		Ethanol	1.39
		Phosgene	4.47
		Xylene	1.90
		Caustic	2.85



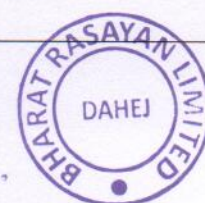
		2-amino-4-chloro-6-methoxy pyridine	3.84
		Water	24.70
5	Cypermethric acid chloride (CMAC)	Forcut	51.96
		Acrylonitrile	68.37
		Carbon tetra chloride	167.10
		Acetonitrile	3.01
		Catalyst - Cupric chloride	1.37
		DEA-HCL	1.50
		Sulphuric acid - 30%	246.14
		Dimethyl formamide	2.73
		16% Caustic lye	961.30
		n-Hexane	27.35
		Isobutylene	62.49
		TEA	114.04
		1% Soda ash	69.74
		Catalyst	1.37
		Caustic 100%	132.78
		Sulfuric acid	163.95
		Thionyl chloride	228.77
		soda ash aq	83.41
6	Cypermethrin Technical	Metaphenoxy Benzaldehyde	66.22
		Cypermethic Acid Chloride	77.01
		Sodium cyanide	19.22
		Catalyst	1.84
		Ethylene Dichloride	0.26
		Hexane	2.11
		Sodium Hypo Chlorite	13.16
		Soda Ash	52.66
		Water	741.40
		Chlorine	9.20
7	Diafenthuron Technical	2,6-diisopropyl-4-phenoxybenzenamine hydrochloride	219.70
		Sodium Thiocyanate	69.73
		Sulphuric Acid	36.65
		O-Xylene	670.50
		Tertiary butyl Amine	49.17
		Water	1117.50
		Hexane	339.27
8	Difenconazole Technical	2-4(4-(4-chlorophenoxy)-2-chlorophenyl)-2-bromomethyl-4-methyl-1,3-Dioxolone	0.00
		1,2,4-Triazole	0.00
		DMF	0.00
		Pottasium chrbonate	0.00
		Methanol	0.00



		Water	0.00
9	Diuron Technical	3,4-Di Chloro Aniline	602.03
		Hydrochloric Acid 35%	443.96
		Urea	237.45
		Xylene	147.99
		Dimethyl Amine	164.80
		Water	2100.04
10	Ethion Technical	Toluene	9.48
		Caustic Soda Lye 47% (For Solution)	768.14
		P2S5	537.38
		Absolute Ethanol alcohol	575.31
		Dibromo methane	319.27
		Water	9039.35
		Steam (For Steam Distillation)	2097.68
11	Flumethrin Technical	Methanol	0.00
		Methyl isopropyl ketone	0.00
		HCL gas	0.00
		Chlorine gas	0.00
		MDC	0.00
		Dimethyl formamide	0.00
		Phosphorus oxychloride	0.00
		4-chloro acetophenone	0.00
		Sodium bicarbonate	0.00
		Sodium hydroxide	0.00
		Hydrochloric Acid	0.00
		Toluene	0.00
		Thionyl Chloride	0.00
		TBAB	0.00
		C.S. Lye	0.00
		Aldehyde	0.00
		cyclohexane	0.00
		Sodium Chloride	0.00
		Sodium Cyanide	0.00
		Water	0.00
12	HPOA HCl (2-hydroxy propyloximine hydrochloride)	Butanone oxime	2.86
		Propylene oxide	2.07
		HCl (30%)	3.50
		water	7.87
13	Imibenconazol	2,4-DCA	0.00
		Sodium carbonate	0.00
		Chloroacetyl chloride	0.00
		Phosphorous penta chloride	0.00
		Toluene	0.00
		1,2,4-triazole	0.00
		Potassium carbonate	0.00



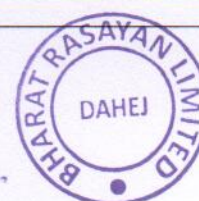
		Acetonitrile	0.00
		Sodium sulfate	0.00
		Oxalic acid	0.00
		Sodium bicarbonate (5%)	0.00
		Sodium Hydroxide	0.00
		Saturated sodium chloride solution	0.00
		Heptane	0.00
		PCBC	0.00
		Thiourea	0.00
		Sodium Hydroxide(48%)	0.00
		HCl (35%)	0.00
14	Imiprothrin Technical	Imiprothrin Alcohol	0.00
		1-R-Chrysanthemic acid	0.00
		Toluene	0.00
		Thionyl Chloride	0.00
		DMAP	0.00
		DMF	0.00
		Sodium carbonate	0.00
		Hydrochloride Acid (5%)	0.00
		C.S.lye	0.00
		Celite	0.00
		Water	0.00
15	Lambda Cyhalothrin Technical	Lambda Acid	326.41
		Thionyl chloride	170.70
		Dimethyl formamide	1.15
		Caustic Soda Lye	319.71
		Metaphenoxy Benzaldehyde	261.24
		Sodium Cyanide	73.82
		Catalyst	6.06
		Soda Ash	19.79
		Hexane	115.38
		Sodium Hypo Chloride	223.14
		Acetic Acid	11.70
		Isopropyl Alcohol	23.29
		Di isopropyl Amine	7.17
		Lambda powder (seeding)	11.35
		Sodium bicarbonate (NaHCO ₃)	4.78
		Caustic Soda Flakes	58.53
		Hydrochloric Acid	48.97
		Water	13372.41
16	Metaphenoxy Benzaldehyde	Ethylene dichloride	5257.19
		Benzaldehyde	1220.97
		Aluminium chloride	2013.83
		Bromine	1010.34
		Chlorine	428.11



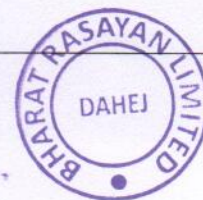
		Soda ash	51.37
		Thiosulphate	24.32
		Hydrochloric Acid (HCl)	732.92
		Catsyst PTSA	1.71
		Caustic Soda lye	272.28
		Mono Ethyl Glycol	1369.95
		Catalyst (CUCL)	51.37
		Toluene	2940.26
		Potassium Hydroxide (KOH)	667.85
		Phenol	1010.34
		Sulphuric Acid	54.80
		Triethyl amine	17.12
		Water	42400.01
17	Metaphenoxy Benzyl alcohol	Metaphenoxy Benzaldehyde	127.47
		Hydrogen	1.29
		Renney Nickle Catalyst	0.00
18	Metribuzine Technical	Sulphuric Acid	399.17
		Dimethyl Sulfate	237.50
		Triazinone	431.50
		Sodium Carbonate	877.76
		Water	14116.47
19	Metsulphuron Methyl Technical	2-Sulfamoyl methyl benzoate	0.00
		Ethyl Chloroformate	0.00
		Potassium Carbonate	0.00
		Acetone	0.00
		2-Amino-4-Methoxy-6-Methyl-1,3,5-Trazine	0.00
		Monochloro Benzene	0.00
		Toluene	0.00
		Water	0.00
20	Myclobutanil Technical	Parachloro Benzyl Cyanide	0.00
		Butyl Bromide	0.00
		Dichloro Methane	0.00
		1,2,4 -Triazole	0.00
		Dimethyl Formamide	0.00
		Sodium Hydroxide	0.00
		Potassium Hydroxide	0.00
		Toluene	0.00
		Catalyst	0.00
		Water	0.00
21	Pendimethalin Technical	4-Nitro-o-xylene	65.57
		Diethyl Ketone	46.33
		Hydrogen	4.09
		Nitric Acid (72%)	102.84
		Catalyst	0.00



		Sulfuric Acid	80.72
		Ethylene Di Chloride	4.42
		Hydrochloric Acid (30%)	24.88
		Caustic Lye (48%)	9.18
		Acetone	6.63
		Xylene	119.42
		Water	6132.98
22	Permethrin Technical	Cypermethric Acid chloride	15.27
		Metaphenoxy Benzaldehyde	13.21
		Hydrogen Gas	0.14
		Ranney Nickel Catalyst	0.03
		Caustic Soda Lye	0.77
		Soda Ash	0.46
		Acetic Acid	0.23
		Water	164.45
23	Phenthoate Technical	Toluene	21.89
		Phosphorus Pentasulphide	187.85
		Methanol	139.30
		Caustic soda lye	517.39
		Phenyl Acetic Acid	195.02
		Thionyl chloride	23.48
		Bromine	241.58
		Sodium bisulphate	19.90
		Ethanol	186.66
		Steam For distillation	2009.86
		Acetic Acid	3.58
		Catalyst	4.04
		Sulphuric Acid	129.35
		Benzene	1193.98
		Water	10745.81
24	Paclobutrazol Technical	1,2,4-triazole	0.00
		1-chloro-3,3-dimethylbutanone-2	0.00
		potassium carbonate	0.00
		Ethanol (Fresh)	0.00
		P-chloro benzaldehyde	0.00
		Toluene (fresh)	0.00
		Triethyl amine	0.00
		Isopropyl alcohol (fresh)	0.00
		Hydrogen gas	0.00
		Water	0.00
25	Penoxsulam Technical	2-(2,2-difluoroethoxy)-6-trifluoro methyl benzene sulfonyl chloride	11.84
		2-amino-5,8-dimethoxy-(1,2,4) triazole-1,5 pyrimidine	7.50
		Tetra hydrofuron (fresh)	0.66
		Ethanol (Fresh)	1.00



26	Sulfosulfuron Technical	Acetonitrile (fresh)	3.33
		2-Ethyl sulfonyl imidazo(1,2-a)Pyridine-3-Sulfonamide	26.32
		Phenyl-N-4,6 Dimethoxy Pyrimidin-2-yl)carbamate	28.96
		Tri ethyle amine (fresh)	0.49
		TBAB (catalyst)	0.29
		HCl 30%	13.50
		Water	110.65
27	Tebuconazole Technical 93%	3-Pentanone 1-(4-chlorophenyl-4,4-dimethyl)	17.73
		Dimethyl sulphide	3.06
		Dimethyl sulphate	15.29
		Potassium hydroxide	12.23
		catalyst	0.61
		Dimethyl sulphoxide (DMSO)	4.08
		1,2,4-Triazole	6.11
		Cyclohexane	1.02
		sodium hydroxide	3.06
		Water	120.24
28	Thiomethoxam Technical	2-Chloro-5 -chloromethyl thiazole (CCMT)	456.31
		3-methyl-4-nitro per hydro, 1,2,5 oxadiazene (MNPO)	486.73
		Dimethyl Formamide	58.31
		Methanol	38.03
		Caustic Flacks	121.68
		Hydrochloric Acid	22.18
		Sodium Hypochlorite	95.06
		Water	2535.04
29	Tolfenpyrad	4-methyl phenol	12.93
		4-chlorobenzonitrile	17.84
		Potassium hydroxide	6.69
		Hydrogen gas	1.34
		Hexanoic acid, 2, 4-dioxo-ethyl ester	20.52
		Mono methyl hydrazine hydrate	7.58
		Chlorine gas	8.47
		Ethenol (Fresh)	1.78
		Water	133.80
30	Transfluthrin Technical	CMACl	0.00
		Xylene	0.00
		Sodium Bicarbonate	0.00
		Acetic anhydride	0.00
		Caustic lye	0.00



		p-Toluene sulphonic acid	0.00
		Sulphuric acid	0.00
		Hexanes	0.00
		Activated carbon	0.00
		Sodium carbonate	0.00
		D-(-)-alpha phenylglycine ethyl ester HCl	0.00
		Toluene	0.00
		Hydrochloric Acid	0.00
		Thionyl Chloride	0.00
		TFBA	0.00
		DMF	0.00
		KOH	0.00
		Acetic acid	0.00
		Water	0.00



Annexure 3



Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

REPORT NO. : SC/BRL/WW/MAR/2023/11

TEST REPORT

Date of Issue : 16-03-2023

Issued to M/s. BHARAT RASAYAN LIMITED

Address PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

Sample details	Sample 1	Total No. of samples received	4
Type of sample	ETP Inlet	Date of Sampling	10-03-2023
Sample ID	26756-WW-01	Date of Receipt	10-03-2023
Sample Qty. & Packing	2 L & Sealed	Date of Analysis start	11-03-2023
Sampled by	Mr.Ranjeet	Date of Completion	15-03-2023
Sampling Location	ETP Plant		

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01

SR.NO.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1	pH	-	IS 3025(Part11,Clause 2):1983	7.550 @ 25.0°C
2	Temperature	°C	APHA 23 rd Ed.2550 B	26
3	TSS	mg/L	APHA 23 rd Ed.2540 D	240
4	Fluorides	mg/L	APHA 23 rd Ed.4500 F D	0.9
5	Sulphides	mg/L	APHA 23 rd Ed.4500 S ²⁻ F	21
6	Ammonical Nitrogen	mg/L	APHA 23 rd Ed.4500 NH ₃ C	202
7	Nitrate Nitrogen	mg/L	IS 3025 (Part 34,Clause 3.3):1988	18
8	Total Kjeldahl Nitrogen	mg/L	APHA 23 rd Ed.4500 Norg B	210
9	Copper	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.1)
10	BOD (3 days at 27 °C)	mg/L	IS 3025 (Part 44):1993	1445
11	COD	mg/L	IS 3025 (Part 58):2006	4800
12	Arsenic (as As)	mg/L	APHA 23 rd Ed.3114 B	BDL(DL=0.1)
13	Mercury (as Hg)	mg/L	APHA 23 rd Ed.3112	BDL(DL=0.01)
14	Lead (as Pb)	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.5)
15	Cadmium (as Cd)	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.1)
16	Hexavalent Chromium	mg/L	APHA 23 rd Ed.3500 Cr- B	BDL(DL=0.1)
17	Nickel	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.2)
18	Phenolic Compounds	mg/L	APHA 23 rd Ed.5530 D	17
19	Zinc (as Zn)	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.2)
20	Manganese	mg/L	APHA 23 rd Ed.3111 B	BDL(DL=0.5)
21	Iron	mg/L	IS 3025 (Part 53,Clause 6):2003	BDL(DL=1)
22	Oil & Grease	mg/L	IS 3025 (Part 39,Clause 5):2021	BDL(DL=0.5)
23	Total Residual Chlorine	mg/L	APHA 23 rd Ed.4500- CL- B	BDL(DL=0.1)

Additions to, deviations, or exclusions from the method :-None
Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :- BDL - Below Detection Limit, DL - Detection Limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Format No. : SC/LAB/F/Report-01 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022
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Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/WW/MAR/2023/11

Date of Issue : 16-03-2023

Issued to : M/s. BHARAT RASAYAN LIMITED

Address : PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

Sample details	Sample 1	Total No. of samples received	4
Type of sample	ETP Inlet	Date of Sampling	10-03-2023
Sample ID	26756-WW-01	Date of Receipt	10-03-2023
Sample Qty. & Packing	2 L & Sealed	Date of Analysis start	11-03-2023
Sampled by	Mr. Ranjeet	Date of Completion	15-03-2023
Sampling Location	ETP Plant		

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01

SR.NO.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1	Cyanide (as CN)	mg/L	APHA 23 rd Ed. 4500 CN D	BDL
2	Selenium (as Se)	mg/L	APHA 23 rd Ed. 3500 Se C.	BDL
3	Trivalent Chromium	mg/L	APHA 23 rd Ed By Calculation method	BDL(DL=0.1)
4	Vanadium	mg/L	APHA 23 rd Ed.	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :- BDL - Below Detection Limit, DL - Detection Limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P. M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

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Siddhi Green Excellence PRIVATE LIMITED



TEST REPORT

REPORT NO. : SC/BRL/WW/MAR/2023/12

Date of Issue : 16-03-2023

Issued to M/s. BHARAT RASAYAN LIMITED

Address PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

Sample details	Sample 2	Total No. of samples received	4
Type of sample	ETP Outlet	Date of Sampling	10-03-2023
Sample ID	26756-WW-02,M-5438-WW -01**	Date of Receipt	10-03-2023
Sample Qty. & Packing	2 L & Sealed, 10 L & Sealed**	Date of Analysis	11-03-2023
Sampled by	Mr. Ranjeet	Date of Completion	15-03-2023
Sampling Location	ETP Plant		

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE-2)	RESULTS
1	pH	-	IS 3025(Part11,Clause 2):1983	6.0 - 9.0	7.767 @ 25.0 °C
2	Temperature	°C	APHA 23 rd Ed.2550 B	Shall not exceed 5°C above the receiving water temperature	26
3	TSS	mg/L	APHA 23 rd Ed.2540 D	100	40
4	Fluorides	mg/L	APHA 23 rd Ed.4500 F D	15	BDL(DL=0.5)
5	Sulphides	mg/L	APHA 23 rd Ed.4500 S ²⁻ F	5	2.2
6	Ammonical Nitrogen	mg/L	APHA 23 rd Ed.4500 NH3 C	50	37
7	Nitrate Nitrogen	mg/L	IS 3025 (Part 34,Clause 3.3):1988	50	19
8	Total Kjeldahl Nitrogen	mg/L	APHA 23 rd Ed.4500 Norg B	50	45
9	Copper	mg/L	APHA 23 rd Ed.3111 B	3	BDL(DL=0.1)
10	BOD	mg/L	IS 3025 (Part 44):1993	100	39
11	COD	mg/L	IS 3025 (Part 58):2006	250	128
12	Arsenic (as As)	mg/L	APHA 23 rd Ed.3114 B	0.2	BDL(DL=0.1)
13	Mercury (as Hg)	mg/L	APHA 23 rd Ed.3112	0.01	BDL(DL=0.01)
14	Lead (as Pb)	mg/L	APHA 23 rd Ed. 3111 B	0.1	BDL(DL=0.5)
15	Cadmium (as Cd)	mg/L	APHA 23 rd Ed. 3111 B	0.05	BDL(DL=0.1)
16	Hexavalent Chromium	mg/L	APHA 23 rd Ed.3500 Cr- B	0.1	BDL(DL=0.1)
17	Nickel	mg/L	APHA 23 rd Ed.3111 B	3	BDL(DL=0.2)
18	Phenolic Compounds	mg/L	APHA 23 rd Ed. 5530 D	5	0.2
19	Zinc (as Zn)	mg/L	APHA 23 rd Ed.3111 B	15	BDL(DL=0.2)
20	Manganese	mg/L	APHA 23 rd Ed.3111 B	2	BDL(DL=0.5)
21	Iron	mg/L	IS 3025 (Part 53,Clause 6):2003	3	BDL(DL=1)
22	Oil & Grease	mg/L	IS 3025 (Part 39,Clause 5):2021	10	BDL(DL=0.5)
23	Total Residual Chlorine	mg/L	APHA 23 rd Ed. 4500- CL- B	1	BDL(DL=0.1)

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-**- Sampling for microbiological Analysis

Abbreviations used :- BDL - Below Detection Limit,DL - Detection Limit

Verified by

[Signature]

Authorized Signatory

Mrs. K. P. Shah / Mr. P. M. Shah

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Siddhi Green Excellence PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/WW/MAR/2023/12

Date of Issue : 16-03-2023

Issued to : M/s. BHARAT RASAYAN LIMITED

Address : PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

Sample details	Sample 2	Total No. of samples received	4
Type of sample	ETP Outlet	Date of Sampling	10-03-2023
Sample ID	26756-WW-02,M-5438-WW -01**	Date of Receipt	10-03-2023
Sample Qty. & Packing	2 L & Sealed, 10 L & Sealed**	Date of Analysis	11-03-2023
Sampled by	Mr. Ranjeet	Date of Completion	15-03-2023
Sampling Location	ETP Plant		
Sampling Plan & Sampling Method Used : Lab document SC/LAB/01			

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE-2)	RESULTS
1	Trivalent Chromium	mg/L	APHA 23 rd Ed. by Calculation method	2	BDL(DL=0.1)
2	Cyanide (as CN)	mg/L	APHA 23 rd Ed. 4500 CN D	0.2	BDL
3	Selenium (as Se)	mg/L	APHA 23 rd Ed. 3500 Se C.	0.05	BDL
4	Vanadium	mg/L	APHA 23 rd Ed.	0.2	BDL
5	Bio-assay Test	%	IS 6582(Part 2):2001	90% Survival of fish after 96 hrs in 100% Effluent	100% Survival of fish after 96 hrs in Effluent (TF1 FACTOR)

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-**- Sampling for microbiological Analysis

Abbreviations used :- BDL - Below Detection Limit, DL - Detection Limit

Verified by

Authorized Signatory

Mrs. K. P. Shah / Mr. P. M. Shah

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Siddhi Green Excellence PRIVATE LIMITED



TEST REPORT

REPORT NO. : SC/BRL/WW/MAR/2023/13

Date of Issue : 16-03-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

Sample details	Sample 3	Total No. of sample received	4
Type of sample	STP Outlet	Date of Sampling	10-03-2023
Sample ID	26756-WW-03	Date of Receipt	10-03-2023
Sample Qty. & Packing	1 L & Sealed	Date of Analysis start	11-03-2023
Sampled by	Mr. Ranjeet	Date of Completion	15-03-2023

Sampling Plan & Sampling Method Used : Lab document SC/LAB/01

SR.NO.	PARAMETERS	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS Sample 3
1.	BOD (3 days at 27°C)	mg/L	IS 3025(Part44) 1993	less than 20	11
2.	Suspended Solid	mg/L	APHA 23 rd Ed.2540 D	less than 30	25
3.	Residual Chlorine	mg/L	APHA 23 rd Ed.4500-Cl B	minimum 0.5	0.7

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :-None

Any other remarks :-None

Abbreviations used :- None

Verified by

Authorized Signatory

Mrs. K. P. Shah / Mr. P. M. Shah



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TEST REPORT

REPORT NO. : SC/BRL/ST/DEC/2022/09

Date of Issue : 07-12-2022

Issued	M/s. BHARAT RASAYAN LIMITED.
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 2	Stack 3	Stack 4
1	Sample ID No.	25456-FS-01	25456-FS-02	25456-FS-03
2	Name of Stack	DG-1 (750 kVA)	DG-2(750 kVA)	DG-3(750 kVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	02-12-2022 & 11:00 h	02-12-2022 & 11:30 h	02-12-2022 & 12:00 h
5	Date of Receipt	02-12-2022	02-12-2022	02-12-2022
6	Date of Analysis start	02-12-2022	02-12-2022	02-12-2022
7	Date of Completion	03-12-2022	03-12-2022	03-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of Stack			
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	114°C	110°C	116°C
4	Velocity of Flue gas	7.7 m/s	7.8 m/s	8.0 m/s

	Details of Flue gas			
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO2	mg/Nm3	IS 11255(Part 1):1985	150	75	73	76
2	SO2	ppm	IS 11255(Part 2):1985	100	26	24	21
3	NOx	ppm	IS11255(Part7):2005	50	29	27	26

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

2. Permissible limits if mentioned in report are as per CC&A and included in the report upon request by customer.

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TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/DEC/2022/08

Date of Issue : 07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	25456-FS-04
2	Name of Stack	Boiler Stack
3	Source	Boiler
4	Date & Time of sampling	03-12-2022 & 11:45 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	03-12-2022
7	Date of Completion	04-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack	
1	Stack Height
2	Stack Diameter
3	Temperature of Flue gas
4	Velocity of Flue gas

	30 m
	1090 mm
	128°C
	7.7 m/s

Details of Flue Gas	
1	Type of Fuel
2	Rate of Consumption

	Coal
	50 to 55 T/d

PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
---------------------	------	-------------	----------------------------	---------

1	PM @ 12 % CO2	mg/Nm ³	IS 11255(Part 1):1985	150	92
2	SO ₂	ppm	IS 11255(Part 2):1985	100	48
3	NOx	ppm	IS 11255(Part 7):2005	50	37

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/11

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 6
1	Sample ID	25456-PS-02
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	03-12-2022 & 12:15 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	05-12-2022
7	Date of Completion	05-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/13

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	25456-PS-05
2	Name of Stack	Plant - A Process Vent
3	Source	Attached to General stack 1 (primary scrubber with caustic circulation) connect with bromination common scrubber no.1
4	Date & Time of sampling	02-12-2022 & 13:00 h
5	Date of Receipt	02-12-2022
6	Date of Analysis start	02-12-2022
7	Date of Completion	03-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	3 Inch
3	Temperature of gas	35°C
4	Velocity of gas	5.0 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.8
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	0.6
3.	HBr	mg/Nm ³	CPCB guideline	5	BDL
4.	Br ₂	mg/Nm ³	CPCB guideline	2	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/14

Date of Issue : 07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 2
1	Sample ID	25456-PS-06
2	Name of Stack	Plant - A Process vent
3	Source	Attached to process vent3 & General stack 4 (primary & secondary scrubber with caustic circulation & caustic solution vent gas scrubber)
4	Date & Time of sampling	02-12-2022 & 13:30 h
5	Date of Receipt	02-12-2022
6	Date of Analysis start	03-12-2022
7	Date of Completion	03-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height				15 m
2	Stack Diameter				6 inch
3	Temperature of gas				30°C
4	Velocity of Flue gas				5.2 m/s
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	H ₂ S	mg/Nm ³	IS Method	5	BDL
2.	VOC as BTX	mg/Nm ³	IS 5182(Part11): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/15

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	25456-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	03-12-2022 & 13:15 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	05-12-2022
7	Date of Completion	05-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	37°C
4	Velocity of Flue gas	5.5 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.1
2.	H ₂ S	mg/Nm3	IS 11255 (Part 4): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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page 2 of 2



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TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/12

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 7
1	Sample ID	25456-PS-04
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	03-12-2022 & 12:45 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	05-12-2022
7	Date of Completion	05-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas
	15 m
	950 mm
	33°C
	5.2 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

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TEST REPORT

TC-5007

REPORT NO. : SC/BRL/PST/DEC/2022/16

Date of Issue : 07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	25456-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 & 6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower and primary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	03-12-2022 & 13:45 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	03-12-2022
7	Date of Completion	05-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	32 °C
4	Velocity of Gas	5.1 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	19

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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page 1 of 3

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TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/16

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	25456-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 &6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower and primary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	03-12-2022 & 13:45 h
5	Date of Receipt	03-12-2022
6	Date of Analysis start	03-12-2022
7	Date of Completion	05-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of Gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	1.3
2.	VOC as BTX	mg/Nm ³	IS 5182(Part11): 2006	-	BDL
3.	DMA (Dimethyl Amine)	mg/Nm ³	GC Method	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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page 2 of 3



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TEST REPORT

REPORT NO. : SC/BRL/PST/DEC/2022/10

Date of Issue :07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 4
1	Sample ID	25456-PS-01
2	Name of Stack	Tank farm Scrubber Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	02-12-2022 & 12:30 h
5	Date of Receipt	02-12-2022
6	Date of Analysis start	02-12-2022
7	Date of Completion	03-12-2022

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height				15 m
2	Stack Diameter				6 inch
3	Temperature of gas				33°C
4	Velocity of gas				5.0 m/s
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.2
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	0.8

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



TEST REPORT

REPORT NO. : SC/BRL/ST/JAN/2023/08

Date of Issue : 16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26005-FS-04
2	Name of Stack	Boiler Stack
3	Source	Boiler
4	Date & Time of sampling	11-01-2023 & 12:00 h
5	Date of Receipt	11-01-2023
6	Date of Analysis start	12-01-2023
7	Date of Completion	13-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack	
1	Stack Height
2	Stack Diameter
3	Temperature of Flue gas
4	Velocity of Flue gas

Details of Flue Gas	
1	Type of Fuel
2	Rate of Consumption

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12 % CO2	mg/Nm ³	IS 11255(Part 1):1985	150	90
2	SO ₂	ppm	IS 11255(Part 2):1985	100	46
3	NOx	ppm	IS 11255(Part 7):2005	50	35

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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TEST REPORT

REPORT NO. : SC/BRL/ST/JAN/2023/09

Date of Issue : 16-01-2023

Issued	M/s. BHARAT RASAYAN LIMITED.
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 1	Stack 2	Stack 3
1	Sample ID No.	26005-FS-01	26005-FS-02	26005-FS-03
2	Name of Stack	DG-1 (750 kVA)	DG-2(750 kVA)	DG-3(750 kVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	10-01-2023 & 12:00 h	10-01-2023 & 12:30 h	10-01-2023 & 13:00 h
5	Date of Receipt	10-01-2023	10-01-2023	10-01-2023
6	Date of Analysis start	11-01-2023	11-01-2023	11-01-2023
7	Date of Completion	12-01-2023	12-01-2023	12-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack				
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	107°C	112°C	117°C
4	Velocity of Flue gas	7.4 m/s	7.6 m/s	7.7 m/s

Details of Flue gas				
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO2	mg/Nm3	IS 11255(Part 1):1985	150	78	76	75
2	SO2	ppm	IS 11255(Part 2):1985	100	27	25	29
3	NOx	ppm	IS11255(Part7): 2005	50	31	38	35

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/15

Date of Issue : 16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 2
1	Sample ID	26005-PS-06
2	Name of Stack	Plant - A Process vent
3	Source	Attached to process vent3 & General stack 4 (primary & secondary scrubber with caustic circulation & caustic solution vent gas scrubber)
4	Date & Time of sampling	11-01-2023 & 14:00 h
5	Date of Receipt	11-01-2023
6	Date of Analysis start	12-01-2023
7	Date of Completion	13-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			6 inch	
3	Temperature of gas			31°C	
4	Velocity of Flue gas			5.1 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	H ₂ S	mg/Nm ³	IS Method	5	BDL
2.	VOC as BTX	mg/Nm ³	IS 5182(Part11): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/16

Date of Issue : 16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26005-PS-05
2	Name of Stack	Plant - A Process Vent
3	Source	Attached to General stack 1 (primary scrubber with caustic circulation) connect with bromination common scrubber no.1
4	Date & Time of sampling	11-01-2023 & 14:15 h
5	Date of Receipt	11-01-2023
6	Date of Analysis start	12-01-2023
7	Date of Completion	13-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	3 Inch
3	Temperature of gas	33°C
4	Velocity of gas	4.9 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	2.6
2.	Cl ₂	mg/Nm3	IS 5182(Part 19):1982	5	0.5
3.	HBr	mg/Nm3	CPCB guideline	5	BDL
4.	Br ₂	mg/Nm3	CPCB guideline	2	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P. M. Shah
-----------------	--

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/14

Date of Issue :16-01-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	26005-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 & 6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower and primary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	11-01-2023 & 13:45 h
5	Date of Receipt	11-01-2023
6	Date of Analysis start	12-01-2023
7	Date of Completion	13-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of Gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.4
2.	VOC as BTX	mg/Nm3	IS 5182(Part11): 2006	-	BDL
3.	DMA (Dimethyl Amine)	mg/Nm3	GC Method	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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**TEST REPORT**

REPORT NO. : SC/BRL/PST/JAN/2023/14

Date of Issue : 16-01-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	26005-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 & 6(HCL, Caustic and DMA scrubber with vent gas scrubber) and General stack 2 and 5 (primary scrubber with blower and primary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	11-01-2023 & 13:45 h
5	Date of Receipt	11-01-2023
6	Date of Analysis start	12-01-2023
7	Date of Completion	13-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			37 °C	
4	Velocity of Gas			6.9 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	21

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/13

Date of Issue :16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	26005-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-01-2023 & 15:20 h
5	Date of Receipt	10-01-2023
6	Date of Analysis start	11-01-2023
7	Date of Completion	12-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of Flue gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.1
2.	H ₂ S	mg/Nm3	IS 11255 (Part 4): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 2 of 2



Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/13

Date of Issue :16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	26005-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-01-2023 & 15:20 h
5	Date of Receipt	10-01-2023
6	Date of Analysis start	11-01-2023
7	Date of Completion	12-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			33°C	
4	Velocity of Flue gas			5.1 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	23

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 1 of 2





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/12

Date of Issue : 16-01-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 7
1	Sample ID	26005-PS-04
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	10-01-2023 & 14:25 h
5	Date of Receipt	10-01-2023
6	Date of Analysis start	11-01-2023
7	Date of Completion	11-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/11

Date of Issue : 16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 6
1	Sample ID	26005-PS-02
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	10-01-2023 & 14:00 h
5	Date of Receipt	10-01-2023
6	Date of Analysis start	11-01-2023
7	Date of Completion	11-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/JAN/2023/10

Date of Issue :16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 4
1	Sample ID	26005-PS-01
2	Name of Stack	Tank farm Scrubber Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-01-2023 & 13:40 h
5	Date of Receipt	10-01-2023
6	Date of Analysis start	11-01-2023
7	Date of Completion	12-01-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			6 inch	
3	Temperature of gas			31°C	
4	Velocity of gas			5.11 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	2.1
2.	Cl ₂	mg/Nm3	IS 5182(Part 19):1982	5	0.6

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/FEB/2023/01

Date of Issue : 15-02-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26404-FS-04
2	Name of Stack	Boiler Stack
3	Source	Boiler
4	Date & Time of sampling	11-02-2023 & 11:45 h
5	Date of Receipt	11-02-2023
6	Date of Analysis start	13-02-2023
7	Date of Completion	14-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack	
1	Stack Height
2	Stack Diameter
3	Temperature of Flue gas
4	Velocity of Flue gas

Details of Flue Gas	
1	Type of Fuel
2	Rate of Consumption

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12 % CO ₂	mg/Nm ³	IS 11255(Part 1):1985	150	98
2	SO ₂	ppm	IS 11255(Part 2):1985	100	49
3	NO _x	ppm	IS 11255(Part 7):2005	50	36

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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E-mail : siddhi.ank@gmail.com

: Dahej Off. :

"SANSKARAVENUE" SHOP NO. GF 37,
P.O. JOLVA, TA. VAGRA, DIST. BHARUCH
TELE : 02641 - 254041





Siddhi Green Excellence PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/FEB/2023/02

Date of Issue : 15-02-2023

Issued **M/s. BHARAT RASAYAN LIMITED.**

Address: PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 1	Stack 2	Stack 3
1	Sample ID No.	26404-FS-01	26404-FS-02	26404-FS-03
2	Name of Stack	DG-1 (750 KVA)	DG-2(750 KVA)	DG-3(750 KVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	10-02-2023 & 11:30 h	10-02-2023 & 12:00 h	10-02-2023 & 12:30 h
5	Date of Receipt	10-02-2023	10-02-2023	10-02-2023
6	Date of Analysis start	11-02-2023	11-02-2023	11-02-2023
7	Date of Completion	13-02-2023	13-02-2023	13-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack				
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	111°C	108°C	114°C
4	Velocity of Flue gas	7.7 m/s	7.7 m/s	7.6 m/s

Details of Flue gas				
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO ₂	mg/Nm ³	IS 11255(Part 1):1985	150	79	75	72
2	SO ₂	ppm	IS 11255(Part 2):1985	100	30	24	21
3	NO _x	ppm	IS11255(Part7): 2005	50	33	31	28

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

2. Permissible limits if mentioned in report are as per CC&A and included in the report upon request by customer.

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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TELE : 02641 - 254041





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/08

Date of Issue : 15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 2
1	Sample ID	26404-PS-06
2	Name of Stack	Plant - A Process vent
3	Source	Attached to process vent3 & General stack 4 (primary & secondary scrubber with caustic circulation & caustic solution vent gas scrubber)
4	Date & Time of sampling	11-02-2023 & 12:45 h
5	Date of Receipt	11-02-2023
6	Date of Analysis start	13-02-2023
7	Date of Completion	13-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			6 inch	
3	Temperature of gas			34°C	
4	Velocity of Flue gas			5.3 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	H ₂ S	mg/Nm ³	IS Method	5	BDL
2.	VOC as BTX	mg/Nm ³	IS 5182(Part11): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P. M. Shah
-----------------	--

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/05

Date of Issue : 15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	26404-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-02-2023 & 14:00 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	13-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	36°C
4	Velocity of Flue gas	5.4 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.5
2.	H ₂ S	mg/Nm3	IS 11255 (Part 4): 2006	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 2 of 2



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/07

Date of Issue : 15-02-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26404-PS-05
2	Name of Stack	Plant - A Process Vent
3	Source	Attached to General stack 1 (primary scrubber with caustic circulation) connect with bromination common scrubber no.1
4	Date & Time of sampling	11-02-2023 & 12:15 h
5	Date of Receipt	11-02-2023
6	Date of Analysis start	13-02-2023
7	Date of Completion	14-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.9
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	0.7
3.	HBr	mg/Nm ³	CPCB guideline	5	BDL
4.	Br ₂	mg/Nm ³	CPCB guideline	2	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/06

Date of Issue :15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 7
1	Sample ID	26404-PS-04
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	10-02-2023 & 14:30 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	11-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	950 mm
3	Temperature of gas	31°C
4	Velocity of gas	5.0 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/05

Date of Issue :15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	26404-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-02-2023 & 14:00 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	13-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			36°C	
4	Velocity of Flue gas			5.4 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	21

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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page 1 of 2



TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/09

Date of Issue :15-02-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	26404-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 & 6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower and primary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	11-02-2023 & 13:15 h
5	Date of Receipt	11-02-2023
6	Date of Analysis start	13-02-2023
7	Date of Completion	14-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			35 °C	
4	Velocity of Gas			5.4 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	23

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/10

Date of Issue :15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 8
1	Sample ID	26404-PS-08
2	Name of Stack	Plant C Process Vent 7
3	Source	Blower with bag filter
4	Date & Time of sampling	10-02-2023 & 14:50 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	11-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	PM	mg/Nm3	IS 11255(Part 1):1985	150	57

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/09

Date of Issue :15-02-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	26404-PS-07
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 &6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower andprimary and secondary scrubber with caustic circulation)
4	Date & Time of sampling	11-02-2023 & 13:15 h
5	Date of Receipt	11-02-2023
6	Date of Analysis start	13-02-2023
7	Date of Completion	14-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of Gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.2
2.	VOC as BTX	mg/Nm3	IS 5182(Part11): 2006	-	BDL
3.	DMA (Dimethyl Amine)	mg/Nm3	GC Method	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/FEB/2023/03

Date of Issue :15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 4
1	Sample ID	26404-PS-01
2	Name of Stack	Tank farm Scrubber Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-02-2023 & 13:00 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	11-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height				15 m
2	Stack Diameter				6 inch
3	Temperature of gas				33°C
4	Velocity of gas				5.4 m/s
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	2.3
2.	Cl ₂	mg/Nm3	IS 5182(Part 19):1982	5	0.7

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

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Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



TEST REPORT

Date of Issue :15-02-2023

REPORT NO. : SC/BRL/PST/FEB/2023/04

Issued to **M/s. BHARAT RASAYAN LIMITED**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 6
1	Sample ID	26404-PS-02
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	10-02-2023 & 13:30 h
5	Date of Receipt	10-02-2023
6	Date of Analysis start	11-02-2023
7	Date of Completion	11-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			300 mm	
3	Temperature of gas			35 °C	
4	Velocity of gas			5.3 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/MAR/2023/01

Date of Issue : 16-03-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26756-FS-01
2	Name of Stack	Boiler + TFH
3	Source	Boiler + TFH
4	Date & Time of sampling	11-03-2023 & 10:45 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	13-03-2023
7	Date of Completion	14-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of Stack	
1	Stack Height	30 m
2	Stack Diameter	1090 mm
3	Temperature of Flue gas	134°C
4	Velocity of Flue gas	7.7 m/s

	Details of Flue Gas	
1	Type of Fuel	Coal
2	Rate of Consumption	50 to 55 T/d

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12 % CO ₂	mg/Nm ³	IS 11255(Part 1):1985	150	103
2	SO ₂	ppm	IS 11255(Part 2):1985	100	58
3	NO _x	ppm	IS 11255(Part 7):2005	50	31

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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INTERIORS
BY IGBC

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"Kamal Arcade - The Vertical Sunclock" Comm. Plot No. C-3/3,
GIDC Station Road, Ankleshwar - 393 002. Dist. Bharuch,
Gujarat State, (India). Tele. : 02646 - 224805, 223805
E-mail : siddhi.ank@gmail.com

: Dahej Off. :

"SANSKARAVENUE" SHOP NO. GF 37,
P.O. JOLVA, TA. VAGRA, DIST. BHARUCH
TELE : 02641 - 254041



**TEST REPORT**

REPORT NO. : SC/BRL/ST/MAR/2023/02

Date of Issue : 16-03-2023

Issued: **M/s. BHARAT RASAYAN LIMITED.**

Address: PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 3	Stack 4	Stack 5
1	Sample ID No.	26756-FS-02	26756-FS-03	26756-FS-04
2	Name of Stack	DG-1 (750 kVA)	DG-2(750 kVA)	DG-3(750 kVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	10-03-2023 & 11:00 h	10-03-2023 & 11:15 h	10-03-2023 & 11:35 h
5	Date of Receipt	10-03-2023	10-03-2023	10-03-2023
6	Date of Analysis start	11-03-2023	11-03-2023	11-03-2023
7	Date of Completion	13-03-2023	13-03-2023	13-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack				
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	108°C	113°C	110°C
4	Velocity of Flue gas	7.6 m/s	7.7 m/s	7.7 m/s

Details of Flue gas				
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h.	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO2	mg/Nm3	IS 11255(Part 1):1985	150	74	70	75
2	SO2	ppm	IS 11255(Part 2):1985	100	25	28	22
3	NOx	ppm	IS11255(Part7): 2005	50	39	35	35

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/03

Date of Issue : 16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	26756-PS-01
2	Name of Stack	Plant - A Process Vent
3	Source	Attached to General stack 1 (primary scrubber with caustic circulation) connect with bromination common scrubber no.1
4	Date & Time of sampling	11-03-2023 & 11:05 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	13-03-2023
7	Date of Completion	14-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.5
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	0.5
3.	HBr	mg/Nm ³	CPCB guideline	5	BDL
4.	Br ₂	mg/Nm ³	CPCB guideline	2	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/04

Date of Issue : 16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 3
1	Sample ID	26756-PS-02
2	Name of Stack	Plant - A Process vent
3	Source	Attached to process vent3 & General stack 4 (primary & secondary scrubber with caustic circulation & caustic solution vent gas scrubber)
4	Date & Time of sampling	11-03-2023 & 11:25 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	13-03-2023
7	Date of Completion	13-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			6 inch	
3	Temperature of gas			36°C	
4	Velocity of Flue gas			5.8 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	H ₂ S	mg/Nm ³	IS Method	5	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

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Siddhi Green Excellence

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TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/05

Date of Issue :16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 4
1	Sample ID	26756-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	11-03-2023 & 11:45 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	13-03-2023
7	Date of Completion	13-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	34°C
4	Velocity of Flue gas	5.4 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	2.1

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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page 2 of 2



TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/05

Date of Issue :16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 4
1	Sample ID	26756-PS-03
2	Name of Stack	Plant -B- Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	11-03-2023 & 11:45 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	13-03-2023
7	Date of Completion	13-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			34°C	
4	Velocity of Flue gas			5.4 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	25

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P. M. Shah
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page 1 of 2





TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/06

Date of Issue :16-03-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 5
1	Sample ID	26756-PS-04
2	Name of Stack	Plant - C- Process Stack
3	Source	Attached to process vent 5 (primary scrubber and secondary scrubber with caustic circulation)
4	Date & Time of sampling	10-03-2023 & 11:55 h
5	Date of Receipt	10-03-2023
6	Date of Analysis start	11-03-2023
7	Date of Completion	11-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	37 °C
4	Velocity of Gas	5.3 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	25

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/06

Date of Issue :16-03-2023

Issue to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 5
1	Sample ID	26756-PS-04
2	Name of Stack	Plant - C- Process Stack
3	Source	Attached to process vent 5 (primary scrubber and secondary scrubber with caustic circulation)
4	Date & Time of sampling	10-03-2023 & 11:55 h
5	Date of Receipt	10-03-2023
6	Date of Analysis start	11-03-2023
7	Date of Completion	11-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	37 °C
4	Velocity of Gas	5.3 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	1.6

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/07

Date of Issue :16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 10
1	Sample ID	26756-PS-05
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	11-03-2023 & 12:05 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	12-03-2023
7	Date of Completion	12-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/08

Date of Issue :16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	26756-PS-06
2	Name of Stack	Plant A- General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	11-03-2023 & 12:25 h
5	Date of Receipt	11-03-2023
6	Date of Analysis start	12-03-2023
7	Date of Completion	12-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/09

Date of Issue : 16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 14
1	Sample ID	26756-PS-07
2	Name of Stack	Tank farm Scrubber Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber & process vent 4 (HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	10-03-2023 & 12:15 h
5	Date of Receipt	10-03-2023
6	Date of Analysis start	11-03-2023
7	Date of Completion	11-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			6 inch	
3	Temperature of gas			36°C	
4	Velocity of gas			5.5 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.8
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	1.2

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used : BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAR/2023/10

Date of Issue :16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 19
1	Sample ID	26756-PS-08
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	10-03-2023 & 12:30 h
5	Date of Receipt	10-03-2023
6	Date of Analysis start	11-03-2023
7	Date of Completion	11-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



TEST REPORT

REPORT NO. : SC/BRL/ST/APR/2023/01

Date of Issue : 22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	27232-FS-01
2	Name of Stack	Boiler + TFH
3	Source	Boiler + TFH
4	Date & Time of sampling	17-04-2023 & 12:30 h
5	Date of Receipt	17-04-2023
6	Date of Analysis start	18-04-2023
7	Date of Completion	19-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of Stack	
1	Stack Height	30 m
2	Stack Diameter	1090 mm
3	Temperature of Flue gas	129°C
4	Velocity of Flue gas	7.9 m/s

	Details of Flue Gas	
1	Type of Fuel	Coal
2	Rate of Consumption	50 to 55 T/d

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12 % CO ₂	mg/Nm ³	IS 11255(Part 1):1985	150	79
2	SO ₂	ppm	IS 11255(Part 2):1985	100	56
3	NO _x	ppm	IS 11255(Part 7):2005	50	34

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





Siddhi Green Excellence PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/APR/2023/02

Date of Issue : 22-04-2023

Issued	M/s. BHARAT RASAYAN LIMITED.
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 3	Stack 4	Stack 5
1	Sample ID No.	27232-FS-02	27232-FS-03	27232-FS-04
2	Name of Stack	DG-1 (750 kVA)	DG-2(750 kVA)	DG-3(750 kVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	15-04-2023 & 11:30 h	15-04-2023 & 12:00 h	15-04-2023 & 12:30 h
5	Date of Receipt	15-04-2023	15-04-2023	15-04-2023
6	Date of Analysis start	17-04-2023	17-04-2023	17-04-2023
7	Date of Completion	18-04-2023	18-04-2023	18-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack				
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	112°C	107°C	114°C
4	Velocity of Flue gas	7.9 m/s	7.5 m/s	7.8 m/s

Details of Flue gas				
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT(NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO2	mg/Nm3	IS 11255(Part 1):1985	150	72	73	71
2	SO2	ppm	IS 11255(Part 2):1985	100	24	22	26
3	NOx	ppm	IS11255(Part7): 2005	50	32	34	37

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/APR/2023/03

Date of Issue : 22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 2
1	Sample ID	27232-PS-01
2	Name of Stack	Plant - A Process Vent-2
3	Source	Attached to Process vent 2 (Caustic Scrubber with blower)
4	Date & Time of sampling	15-04-2023 & 13:00 h
5	Date of Receipt	15-04-2023
6	Date of Analysis start	17-04-2023
7	Date of Completion	18-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	300 mm
3	Temperature of gas	37°C
4	Velocity of gas	5.6 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	3.5
2.	Cl ₂	mg/Nm3	IS 5182(Part 19):1982	5	0.6
3.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1



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TEST REPORT

REPORT NO. : SC/BRL/PST/APR/2023/04

Date of Issue :22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	27232-PS-02
2	Name of Stack	Plant A General stack-3
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	15-04-2023 & 13:30 h
5	Date of Receipt	15-04-2023
6	Date of Analysis start	17-04-2023
7	Date of Completion	18-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	200 mm
3	Temperature of gas	35°C
4	Velocity of gas	5.3 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



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TEST REPORT

REPORT NO. : SC/BRL/PST/APR/2023/05

Date of Issue :22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 10
1	Sample ID	27232-PS-03
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	15-04-2023 & 14:00 h
5	Date of Receipt	15-04-2023
6	Date of Analysis start	17-04-2023
7	Date of Completion	18-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	102 mm
3	Temperature of gas	31°C
4	Velocity of gas	5.0 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

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TEST REPORT

REPORT NO. : SC/BRL/PST/APR/2023/06

Date of Issue :22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 19
1	Sample ID	27232-PS-04
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	15-04-2023 & 14:30 h
5	Date of Receipt	15-04-2023
6	Date of Analysis start	17-04-2023
7	Date of Completion	18-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/APR/2023/07

Date of Issue :22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 9 & 12
1	Sample ID	27232-PS-05
2	Name of Stack	Plant C- General Stack (1 & 4)
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	17-04-2023 & 13:00 h
5	Date of Receipt	17-04-2023
6	Date of Analysis start	18-04-2023
7	Date of Completion	19-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	300 mm
3	Temperature of gas	32 °C
4	Velocity of gas	5.0 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



TEST REPORT

REPORT NO. : SC/BRL/ST/MAY/2023/01

Date of Issue : 15-05-2023

Issued to **M/s. BHARAT RASAYAN LIMITED**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	27575-FS-01
2	Name of Stack	Boiler + TFH
3	Source	Boiler + TFH
4	Date & Time of sampling	08-05-2023 & 11:07 h
5	Date of Receipt	08-05-2023
6	Date of Analysis start	09-05-2023
7	Date of Completion	10-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack	
1	Stack Height
2	Stack Diameter
3	Temperature of Flue gas
4	Velocity of Flue gas

Details of Flue Gas	
1	Type of Fuel
2	Rate of Consumption

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM @ 12 % CO2	mg/Nm ³	IS 11255(Part 1):1985	150	95
2	SO ₂	ppm	IS 11255(Part 2):1985	100	53
3	NOx	ppm	IS 11255(Part 7):2005	50	35

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :-None

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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TC-5007

TEST REPORT

REPORT NO. : SC/BRL/ST/MAY/2023/02

Date of Issue : 15-05-2023

Issued	M/s. BHARAT RASAYAN LIMITED.
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO	DESCRIPTION	FLUE GAS STACK EMISSION ANALYSIS		
	Particulars of Sample	Stack 3	Stack 4	Stack 5
1	Sample ID No.	27575-FS-02	27575-FS-03	27575-FS-04
2	Name of Stack	DG-1 (750 kVA)	DG-2 (750 kVA)	DG-3 (750 kVA)
3	Source	DG-1	DG-2	DG-3
4	Date & Time of sampling	08-05-2023 & 11:23 h	08-05-2023 & 11:37 h	08-05-2023 & 11:53 h
5	Date of Receipt	08-05-2023	08-05-2023	08-05-2023
6	Date of Analysis start	09-05-2023	09-05-2023	09-05-2023
7	Date of Completion	10-05-2023	10-05-2023	10-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Stack				
1	Stack Height	11 m	11 m	11 m
2	Stack Diameter	300 mm	300 mm	300 mm
3	Temperature of Flue gas	115°C	117°C	110°C
4	Velocity of Flue gas	7.6 m/s	7.9 m/s	7.7 m/s

Details of Flue gas				
1	Type of Fuel	HSD	HSD	HSD
2	Rate of Consumption	104 L/h	96 L/h	100 L/h

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS	RESULTS	RESULTS
1	PM @12%CO ₂	mg/Nm ³	IS 11255(Part 1):1985	150	75	76	73
2	SO ₂	ppm	IS 11255(Part 2):1985	100	27	25	24
3	NO _x	ppm	IS 11255(Part 7):2005	50	34	36	35

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
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Page 1 of 1

Format No. : SC/LAB/F/Report-03 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/03

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 1
1	Sample ID	27575-PS-01
2	Name of Stack	Plant - A Process Vent
3	Source	Attached to General stack 1 (primary scrubber with caustic circulation) connect with bromination common scrubber no.1
4	Date & Time of sampling	09-05-2023 & 11:05 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	3 Inch
3	Temperature of gas	39°C
4	Velocity of gas	5.4 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm ³	Argentometric method	20	2.8
2.	Cl ₂	mg/Nm ³	IS 5182(Part 19):1982	5	0.7
3.	HBr	mg/Nm ³	CPCB guideline	5	BDL
4	Br ₂	mg/Nm ³	CPCB guideline	2	BDL
5	SO ₂	mg/Nm ³	IS 11255(Part 2):1985	40	23

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
-----------------	---

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Page 1 of 1

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TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/04

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 2
1	Sample ID	27575-PS-02
2	Name of Stack	Plant - A Process Vent-2
3	Source	Attached to Process vent 2 (Caustic Scrubber with blower)
4	Date & Time of sampling	09-05-2023 & 11:23 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			300 mm	
3	Temperature of gas			35°C	
4	Velocity of gas			5.3 m/s	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	3.8
2.	Cl ₂	mg/Nm3	IS 5182(Part 19):1982	5	0.8
3.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Page 1 of 1



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TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/05

Date of Issue :15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 5
1	Sample ID	27575-PS-03
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 &6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower andprimary
4	Date & Time of sampling	09-05-2023 & 11:40 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height			15 m	
2	Stack Diameter			150 mm	
3	Temperature of gas			37 °C	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	SO ₂	mg/Nm ³	IS 11255(Part 2):1985,RA2019	40	19

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K.P. Shah/Mr. P. M. Shah
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TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/05

Date of Issue :15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 5
1	Sample ID	27575-PS-03
2	Name of Stack	Plant - C- General Stack
3	Source	Attached to process vent 5 &6(HCL, Caustic and DMA scrubber with vent gas scrubber)and General stack2 and 5 (primary scrubber with blower andprimary
4	Date & Time of sampling	09-05-2023 & 11:40 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	150 mm
3	Temperature of gas	37 °C

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	1.2

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K.P. Shah/Mr. P. M. Shah
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TC-5007

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/06

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 7
1	Sample ID	27575-PS-04
2	Name of Stack	Plant C Process Vent 7
3	Source	Blower with bag filter
4	Date & Time of sampling	09-05-2023 & 12:03 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas
	15 m
	750 mm
	40°C
	6.7 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	PM	mg/Nm3	IS 11255(Part 1):1985	20	14

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

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Gujarat State, (India). Tele. : 02646 - 224805, 223805
E-mail : siddhi.ank@gmail.com

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: Dahej Off. :

"SANSKARAVENUE" SHOP NO. GF 37,
P.O. JOLVA, TA. VAGRA, DIST. BHARUCH
TELE : 02641 - 254041





TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/07

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 8
1	Sample ID	27575-PS-05
2	Name of Stack	Plant C Process Vent 8
3	Source	Blower with bag filter
4	Date & Time of sampling	09-05-2023 & 12:22 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas
	15 m
	750 mm
	40°C
	6.7 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	PM	mg/Nm3	IS 11255(Part 1):1985	20	15

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/08

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 9 & 12
1	Sample ID	27575-PS-06
2	Name of Stack	Plant C- General Stack (1 & 4)
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	09-05-2023 & 12:39 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm ³	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/09

Date of Issue :15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 10
1	Sample ID	27575-PS-07
2	Name of Stack	Plant B General stack-2
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	08-05-2023 & 12:14 h
5	Date of Receipt	08-05-2023
6	Date of Analysis start	09-05-2023
7	Date of Completion	10-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack	
1	Stack Height	15 m
2	Stack Diameter	950 mm
3	Temperature of gas	33°C
4	Velocity of gas	5.2 m/s

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P. M. Shah
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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/10

Date of Issue :15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 11
1	Sample ID	27575-PS-08
2	Name of Stack	Plant A General stack-3
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	09-05-2023 & 12:39 h
5	Date of Receipt	09-05-2023
6	Date of Analysis start	10-05-2023
7	Date of Completion	11-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

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Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

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TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/11

Date of Issue :15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 14
1	Sample ID	27575-PS-09
2	Name of Stack	Tank farm Scrubber Process vent
3	Source	Process vent 3 (primary and secondary scrubber with caustic solution vent gas scrubber&process vent 4(HCl scrubber Caustic scrubber vent gas scrubber)
4	Date & Time of sampling	08-05-2023 & 12:14 h
5	Date of Receipt	08-05-2023
6	Date of Analysis start	09-05-2023
7	Date of Completion	10-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of stack				
1	Stack Height				15 m
2	Stack Diameter				4 inch
3	Temperature of gas				39°C
4	Velocity of gas				5.4 m/s
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	HCl	mg/Nm3	Argentometric method	20	2.5
2.	Cl2	mg/Nm3	IS 5182(Part 19):1982	5	0.9

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

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Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/PST/MAY/2023/12

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	PROCESS STACK EMISSION ANALYSIS
	Particulars of Sample	Stack 19
1	Sample ID	27575-PS-10
2	Name of Stack	ETP General stack
3	Source	Primary Scrubber with Caustic Circulation
4	Date & Time of sampling	08-05-2023 & 12:45 h
5	Date of Receipt	08-05-2023
6	Date of Analysis start	09-05-2023
7	Date of Completion	10-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of stack	
1	Stack Height
2	Stack Diameter
3	Temperature of gas
4	Velocity of gas

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMITS (NOTE 2)	RESULTS
1.	VOC as BTX	mg/Nm3	Sample Collected in Charcoal Tube and analysed by GC	-	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used :BDL=Below Detection limit

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P.M. Shah
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- Notes :
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Page 1 of 1

Format No. : SC/LAB/F/Report-04 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022



Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/AAQM/MAR/2023/STATION-03/02

Date of issue : 13-03-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 3
1	Sample ID	26711-AQ-03
2	No. of samples	1
3	Date and time of start of sampling	06-03-2023 & 12:15 h
4	Date and time of completion of sampling	07-03-2023 & 12:15 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	09-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	Near Pump House
	Inside plant
	NE-SW
	10.6

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	HCL	µg/m ³	EPA-Argentometric Method	200	BDL
2	H ₂ S	µg/m ³	IS 5182 (Part 7):1973	500	BDL
3	HC	µg/m ³	IS 5182 (Part 21):2001	160	BDL
4	HF	µg/m ³	APHA 23 rd ed.	60	BDL
5	CO	µg/m ³	APHA 23 rd ed.	5000	724
6	CS ₂	µg/m ³	IS 5182 (Part 20)	2000	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 2 of 2

**TEST REPORT**

REPORT NO. : SC/BRL/AAQM/MAR/2023/STATION-02/02

Date of issue : 13-03-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	26711-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	06-03-2023 & 12:10 h
4	Date and time of completion of sampling	07-03-2023 & 12:10 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr. Kamlesh
8	Date of Analysis	09-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station					
1	Location	New HR Building Terrace			
2	Distance from plant site, km	Inside plant			
3	Predominant wind direction	NE-SW			
4	Average wind speed, Kmph	10.6			
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	86
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	24
3	SO2	µg/m3	IS 5182(Part 2):2001	80	18
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	29
5	Cl2	µg/m3	IS 5182(Part 19):1982,RA2019	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	22

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

Authorized Signatory



Mrs. K. P. Shah/Mr. P.M. Shah

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**TEST REPORT**

REPORT NO. : SC/BRL/AAQM/MAR/2023/STATION-01/02

Date of issue : 13-03-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	26711-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	06-03-2023 & 12:05 h
4	Date and time of completion of sampling	07-03-2023 & 12:05 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr. Kamlesh
8	Date of Analysis	09-03-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station					
1	Location	Near ETP Area			
2	Distance from plant site, km	Inside plant			
3	Predominant wind direction	NE-SW			
4	Average wind speed, Kmph	10.6			
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	85
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	24
3	SO2	µg/m3	IS 5182(Part 2):2001	80	15
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	32
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	32

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by 	Authorized Signatory Mrs. K. P. Shah/Mr. P. M. Shah
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Siddhi Green Excellence

PRIVATE LIMITED



TEST REPORT

REPORT NO. : SC/BRL/AAQM/APR/2023/STATION-02/01

Date of issue : 10-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED.
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	27044-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	03-04-2023 & 10:40 h
4	Date and time of completion of sampling	04-04-2023 & 10:40 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	05-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	New HR Building Terrace Inside plant NE-SW 8.7

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	80
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	23
3	SO2	µg/m3	IS 5182(Part 2):2001	80	14
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	29
5	Cl2	µg/m3	IS 5182(Part 19):1982,RA2019	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	28

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

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TEST REPORT

REPORT NO. : SC/BRL/AAQM/APR/2023/STATION-01/01

Date of issue : 10-04-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	27044-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	03-04-2023 & 10:35 h
4	Date and time of completion of sampling	04-04-2023 & 10:35 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	05-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station					
1	Location	Near ETP Area			
2	Distance from plant site, km	Inside plant			
3	Predominant wind direction	NE-SW			
4	Average wind speed, Kmph	8.7			
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	85
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	26
3	SO2	µg/m3	IS 5182(Part 2):2001	80	21
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	26
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	27

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

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Format No. : SC/LAB/E/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 1 of 2





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT

REPORT NO. : SC/BRL/AAQM/APR/2023/STATION-03/01

Date of issue : 10-04-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 3
1	Sample ID	27044-AQ-03
2	No. of samples	1
3	Date and time of start of sampling	03-04-2023 & 10:45 h
4	Date and time of completion of sampling	04-04-2023 & 10:45 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	05-04-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	Near Pump House
	Inside plant
	NE-SW
	8.7

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	HCL	µg/m3	EPA-Argentometric Method	200	BDL
2	H2S	µg/m3	IS 5182 (Part 7):1973	500	BDL
3	HC	µg/m3	IS 5182 (Part 21):2001	160	BDL
4	HF	µg/m3	APHA 23 rd ed.	60	BDL
5	CO	µg/m3	APHA 23 rd ed.	5000	819
6	CS2	µg/m3	IS 5182 (Part 20)	2000	BDL

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

[Signature]

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Siddhi Green Excellence

PRIVATE LIMITED



TEST REPORT

REPORT NO. : SC/BRL/AAQM/MAY/2023/STATION-03/01

Date of issue : 08-05-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 3
1	Sample ID	27486-AQ-03
2	No. of samples	1
3	Date and time of start of sampling	01-05-2023 & 11:00 h
4	Date and time of completion of sampling	02-05-2023 & 11:00 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	03-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	Near Pump House
	Inside plant
	SW-NE
	8.3

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	66
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	21
3	SO2	µg/m3	IS 5182(Part 2):2001	80	14
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	31
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	26

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

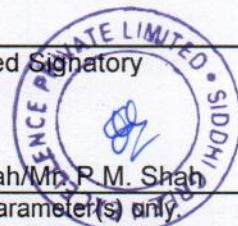
Any other remarks :-None

Abbreviations used:µg=Microgram

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Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 1 of2





TEST REPORT

REPORT NO. : SC/BRL/AAQM/MAY/2023/STATION-02/01

Date of issue : 08-05-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	27486-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	01-05-2023 & 10:55 h
4	Date and time of completion of sampling	02-05-2023 & 10:55 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr. Kamlesh
8	Date of Analysis	03-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	New HR Building Terrace
	Inside plant
	SW-NE
	8.3

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	74
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	27
3	SO2	µg/m3	IS 5182(Part 2):2001	80	15
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	28
5	Cl2	µg/m3	IS 5182(Part 19):1982,RA2019	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	30

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

Authorized Signatory

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Format No. : SC/LAB/F/Report-05 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 03 Revision Date : 09-04-2022

page 1 of 2





Siddhi Green Excellence

PRIVATE LIMITED



TEST REPORT

REPORT NO. : SC/BRL/AAQM/MAY/2023/STATION-01/01

Date of issue : 08-05-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	27486-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	01-05-2023 & 10:50 h
4	Date and time of completion of sampling	02-05-2023 & 10:50 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	03-05-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

	Details of Sampling Station				
1	Location			Near ETP Area	
2	Distance from plant site, km			Inside plant	
3	Predominant wind direction			SW-NE	
4	Average wind speed, Kmph			8.3	
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	75
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	27
3	SO2	µg/m3	IS 5182(Part 2):2001	80	20
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	33
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	31

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

Authorized Signatory

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*** End of Report ***





TEST REPORT

REPORT NO. : SC/BRL/AAQM/FEB/2023/STATION-01/02

Date of issue : 13-02-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 1
1	Sample ID	26345-AQ-01
2	No. of samples	1
3	Date and time of start of sampling	06-02-2023 & 11:45 h
4	Date and time of completion of sampling	07-02-2023 & 11:45 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr. Kamlesh
8	Date of Analysis	08-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station					
1	Location	Near ETP Area			
2	Distance from plant site, km	Inside plant			
3	Predominant wind direction	NE-SW			
4	Average wind speed, Kmph	9.6			
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	80
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	29
3	SO2	µg/m3	IS 5182(Part 2):2001	80	19
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	26
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	31

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

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Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

TEST REPORT

REPORT NO. : SC/BRL/AAQM/FEB/2023/STATION-02/02

Date of issue : 13-02-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 2
1	Sample ID	26345-AQ-02
2	No. of samples	1
3	Date and time of start of sampling	06-02-2023 & 11:50 h
4	Date and time of completion of sampling	07-02-2023 & 11:50 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr. Kamlesh
8	Date of Analysis	08-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station					
1	Location	New HR Building Terrace			
2	Distance from plant site, km	Inside plant			
3	Predominant wind direction	NE-SW			
4	Average wind speed, Kmph	9.6			
	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	90
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	26
3	SO2	µg/m3	IS 5182(Part 2):2001	80	17
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	34
5	Cl2	µg/m3	IS 5182(Part 19):1982,RA2019	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	19

Additions to, deviations, or exclusions from the method :-None

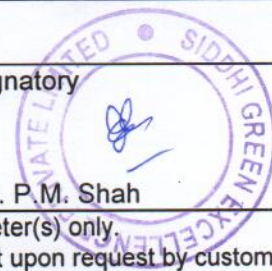
Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by

Authorized Signatory



Mrs. K. P. Shah/Mr. P. M. Shah

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TEST REPORT

REPORT NO. : SC/BRL/AAQM/FEB/2023/STATION-03/02

Date of issue : 13-02-2023

Issued to **M/s. BHARAT RASAYAN LIMITED.**

Address **PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130**

SR.NO.	DESCRIPTION	AMBIENT AIR QUALITY MONITORING
	Particulars of Sample	Station 3
1	Sample ID	26345-AQ-03
2	No. of samples	1
3	Date and time of start of sampling	06-02-2023 & 11:55 h
4	Date and time of completion of sampling	07-02-2023 & 11:55 h
5	Duration of Sampling in hrs	24
6	Approx. ht. of sampling point in meter	~ 3.5
7	Sampled by	Mr.Kamlesh
8	Date of Analysis	08-02-2023

Sampling Plan & Sampling Method Used : Lab Document SC/LAB/01

Details of Sampling Station	
1	Location
2	Distance from plant site, km
3	Predominant wind direction
4	Average wind speed, Kmph
	Near Pump House
	Inside plant
	NE-SW
	9.6

	PARAMETERS ANALYSED	UNIT	TEST METHOD	PERMISSIBLE LIMIT (NOTE 2)	RESULTS
1	PM10	µg/m3	IS 5182(Part 23):2006	100	83
2	PM2.5	µg/m3	IS 5182(Part 24):2019	60	29
3	SO2	µg/m3	IS 5182(Part 2):2001	80	19
4	NOx	µg/m3	IS 5182(Part 6): 2006	80	29
5	Cl2	µg/m3	IS 5182(Part 19):1982	100	BDL(DL=5)
6	Ammonia	µg/m3	IS 5182 (Part 25):2018	400	25

Additions to, deviations, or exclusions from the method :-None

Results from external providers, if any :- None

Any other remarks :-None

Abbreviations used:µg=Microgram

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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TC-5007

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/DEC/2022/01

Date of Issue : 07-12-2022

Issued to	M/s. BHARAT RASAYAN LIMITED				
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130				
Site (where measured)	same as above			Sample ID	25456
Date of Monitoring	02-12-2022			Measured By	Mr. Dilip
Instrument used	Lutron make Noise Level Meter (Model No. SL4001)			Instrument ID	SC-NM-3
Frequency Weighing	A			Time Weighing	FAST
Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.					
Environmental Conditions:				Season	Winter
DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	12:45 to 14:30 h		Time and Duration of Monitoring	23:20 to 02:15 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
29	3.2	NE-SW	24	2.9	NE-SW
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME
1	Near Security Main Gate	NL-01	67	NL-11	62
2	Near ADM office	NL-02	59	NL-12	54
3	Near ETP	NL-03	73	NL-13	65
4	Near Boiler	NL-04	72	NL-14	68
5	Near plant A	NL-05	71	NL-15	64
6	Near plant B	NL-06	70	NL-16	62
7	Near plant C	NL-07	71	NL-17	66
8	Near Utility	NL-08	74	NL-18	68
9	Near Canteen	NL-09	69	NL-19	60
10	Near MEE Plant	NL-10	70	NL-20	63
Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000					
for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75			for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70		

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022





TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/JAN/2023/01

Date of Issue :16-01-2023

Issued to	M/s. BHARAT RASAYAN LIMITED		
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130		
Site (where measured)	same as above	Sample ID	26005
Date of Monitoring	10-01-2023	Measured By	Mr.Ranjeet
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-03
Frequency Weighing	A	Time Weighing	FAST

Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.

Environmental Conditions:	Season	Winter
---------------------------	--------	--------

DAYTIME READINGS (6 AM TO 10 PM)	NIGHT TIME READINGS (10 PM TO 6 AM)
---	--

Time and Duration of Monitoring	11:30 to 14:00 h		Time and Duration of Monitoring	22:20 to 23:00 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
28	3.1	NE-SW	20	2.8	NE-SW

SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A)	READING NO.	NOISE LEVEL dB(A)
			DAY TIME		NIGHT TIME
1	Near Security Main Gate	NL-01	65	NL-11	55
2	Near ADM office	NL-02	58	NL-12	60
3	Near ETP	NL-03	74	NL-13	66
4	Near Boiler	NL-04	73	NL-14	67
5	Near plant A	NL-05	71	NL-15	65
6	Near plant B	NL-06	72	NL-16	63
7	Near plant C	NL-07	73	NL-17	65
8	Near Utility	NL-08	73	NL-18	67
9	Near Canteen	NL-09	69	NL-19	65
10	Near MEE Plant	NL-10	70	NL-20	65

Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000

for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75 for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022

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TC-5007

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/FEB/2023/17

Date of Issue : 15-02-2023

Issued to	M/s. BHARAT RASAYAN LIMITED		
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130		
Site (where measured)	same as above	Sample ID	26404
Date of Monitoring	11-02-2023	Measured By	Mr. Ranjeet
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-03
Frequency Weighing	A	Time Weighing	FAST

Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.

Environmental Conditions:	Season	Winter
---------------------------	--------	--------

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	12:30 to 14:20 h		Time and Duration of Monitoring	22:00 to 23:40 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
29	2.8	NE-SW	23	2.6	NE-SW

SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A)	READING NO.	NOISE LEVEL dB(A)
			DAY TIME		NIGHT TIME
1	Near Security Main Gate	NL-01	67	NL-11	60
2	Near ADM office	NL-02	56	NL-12	52
3	Near ETP	NL-03	73	NL-13	68
4	Near Boiler	NL-04	74	NL-14	66
5	Near plant A	NL-05	73	NL-15	67
6	Near plant B	NL-06	71	NL-16	61
7	Near plant C	NL-07	72	NL-17	63
8	Near Utility	NL-08	74	NL-18	62
9	Near Canteen	NL-09	68	NL-19	60
10	Near MEE Plant	NL-10	72	NL-20	59

Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000

for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75

for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. R. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022





TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/MAR/2023/17

Date of Issue : 16-03-2023

Issued to	M/s. BHARAT RASAYAN LIMITED				
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130				
Site (where measured)	same as above			Sample ID	26756
Date of Monitoring	10-03-2023			Measured By	Mr.Ranjeet
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)			Instrument ID	SC-NM-03
Frequency Weighing	A			Time Weighing	FAST

Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.

Environmental Conditions:	Season	Summer
---------------------------	--------	--------

DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	11:00 to 12:30 h		Time and Duration of Monitoring	22:30 to 23:20 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
28	2.8	NE-SW	24	2.5	NE-SW
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A)	READING NO.	NOISE LEVEL dB(A)
			DAY TIME		NIGHT TIME
1	Near Security Main Gate	NL-01	63	NL-11	57
2	Near ADM office	NL-02	58	NL-12	55
3	Near ETP	NL-03	70	NL-13	65
4	Near Boiler	NL-04	73	NL-14	66
5	Near plant A	NL-05	70	NL-15	64
6	Near plant B	NL-06	71	NL-16	60
7	Near plant C	NL-07	73	NL-17	65
8	Near Utility	NL-08	74	NL-18	64
9	Near Canteen	NL-09	68	NL-19	61
10	Near MEE Plant	NL-10	71	NL-20	60

Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000

for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75

for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P. M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022





Siddhi Green Excellence

PRIVATE LIMITED

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/APR/2023/15

Date of Issue :22-04-2023

Issued to	M/s. BHARAT RASAYAN LIMITED		
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130		
Site (where measured)	same as above	Sample ID	27232
Date of Monitoring	15-04-2023	Measured By	Mr.Ranjeet
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)	Instrument ID	SC-NM-03
Frequency Weighing	A	Time Weighing	FAST

Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.

Environmental Conditions:	Season	Summer
---------------------------	--------	--------

DAYTIME READINGS (6 AM TO 10 PM) NIGHT TIME READINGS (10 PM TO 6 AM)

Time and Duration of Monitoring	11:30 to 12:55 h	Time and Duration of Monitoring	22:45 to 23:40 h
---------------------------------	------------------	---------------------------------	------------------

Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
28	3.1	NE-SW	25	2.6	NE-SW

SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A)	READING NO.	NOISE LEVEL dB(A)
			DAY TIME		NIGHT TIME

1	Near Security Main Gate	NL-01	65	NL-11	59
2	Near ADM office	NL-02	58	NL-12	54
3	Near ETP	NL-03	73	NL-13	67
4	Near Boiler	NL-04	74	NL-14	69
5	Near plant A	NL-05	70	NL-15	65
6	Near plant B	NL-06	71	NL-16	61
7	Near plant C	NL-07	70	NL-17	66
8	Near Utility	NL-08	73	NL-18	66
9	Near Canteen	NL-09	72	NL-19	64
10	Near MEE Plant	NL-10	69	NL-20	61

Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000

for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75 for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by	Authorized Signatory
	Mrs. K. P. Shah/Mr. P.M. Shah

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Page 1 of 1

Format No. : SC/LAB/F/Report-06 Issue No. : 02 Issue Date : 31-01-2019 Revision No : 05 Revision Date : 09-04-2022

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Siddhi Green Excellence

PRIVATE LIMITED



TC-5007

TEST REPORT OF AMBIENT NOISE MEASUREMENT

REPORT NO. : SC/BRL/NL/MAY/2023/19

Date of Issue : 15-05-2023

Issued to	M/s. BHARAT RASAYAN LIMITED				
Address	PLOT NO. 42/4, GIDC DAHEJ, DAHEJ, TAL. VAGRA, DIST. BHARUCH-392 130				
Site (where measured)	same as above			Sample ID	27575
Date of Monitoring	08-05-2023			Measured By	Mr. Ranjeet
Instrument used	HTC make Noise Level Meter (Model No. SL-1352)			Instrument ID	SC-NM-03
Frequency Weighing	A			Time Weighing	FAST
Procedure : As per Work Instruction of Instrument and as per IS-9989:1981, windcover used during measurement.					
Environmental Conditions:				Season	Summer
DAYTIME READINGS (6 AM TO 10 PM)			NIGHT TIME READINGS (10 PM TO 6 AM)		
Time and Duration of Monitoring	11:37 to 13:12 h		Time and Duration of Monitoring	22:57 to 23:46 h	
Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction	Average Ambient Temperature, °C	Average Wind speed, m/s	Predominant Wind direction
28	3.1	NE-SW	25	2.6	NE-SW
SR.NO.	LOCATION	READING NO.	NOISE LEVEL dB(A) DAY TIME	READING NO.	NOISE LEVEL dB(A) NIGHT TIME
1	Near Security Main Gate	NL-01	66	NL-11	60
2	Near ADM office	NL-02	59	NL-12	56
3	Near ETP	NL-03	73	NL-13	68
4	Near Boiler	NL-04	72	NL-14	65
5	Near plant A	NL-05	72	NL-15	66
6	Near plant B	NL-06	70	NL-16	59
7	Near plant C	NL-07	71	NL-17	63
8	Near Utility	NL-08	73	NL-18	63
9	Near Canteen	NL-09	68	NL-19	60
10	Near MEE Plant	NL-10	72	NL-20	63
Permissible Limit for industrial area as per schedule of Noise Pollution (Regulation and Control) Rules, 2000					
for Day Time In dB(A) Leq (6 AM TO 10 PM) : - 75			for Night Time In dB(A) Leq (10 PM TO 06 AM) : - 70		

Additions to, deviations, or exclusions from the method :- None

Results from external providers, if any :- None

Any other remarks :- None

Abbreviations used :- None

Verified by

Authorized Signatory

Mrs. K. P. Shah/Mr. P.M. Shah

Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.

2. Permissible limits if mentioned in report are given by customer and included in the report upon request by customer.

3. Certificates of accreditation are available on lab's website with period of validity. If non-accredited parameters are analysed, their results are given on next page.

4. The opinions and interpretations if mentioned in report are given upon request by customer and based upon material and information supplied by customer.

5. Laboratory has a complaint redressal system. Discrepancies if any in the test report must be brought to notice within 7 days of issue of test report.

6. This report shall not be used as evidence in the court of law and shall not be reproduced except in full, without prior written approval of Siddhi Green Excellence Pvt. Ltd.

*** End of Report ***

Page 1 of 1

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