



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

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

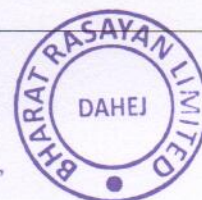


Annexure -1		
Sr. No.	Product Name	Installed Capacity MT/Yr
1	Alpha cypermethrin technical	300
2	Bifenthrin technical	100
3	Clodinafop Propargyl Technical	250
4	Chlorimuron ethyl technical 95%	10
5	Cypermethric acid chloride (CMAC)	1000
6	Cypermethrin technical	800
7	Diafenthiuron technical	400
8	Difenconazole technical	100
9	Diuron technical	900
10	Ethion technical	700
11	Flumethrin technical	15
12	HPOA HCI	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

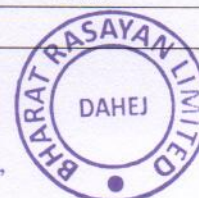


Annexure-2

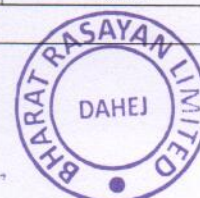
Sr. No.	Name of Product	Raw Material Name	Raw Material Consumption MT/Year
1	Alpha Cypermethrin Technical	Metaphenoxy Benzaldehyde	34.65
		Cypermethic Acid Chloride	40.50
		Sodium cyanide	9.76
		Catalyst	0.96
		Ethylene Dichloride	0.49
		Hexane	1.46
		Soda Ash	1.03
		TEA	2.10
		Acetic acid	5.32
		Caustic 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



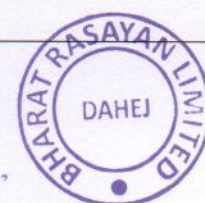
		2-amino-4-chloro-6-methoxy pyridine	3.84
		Water	24.70
5	Cypermethric acid chloride (CMAC)	Forcut	51.96
		Acrylonitrile	68.37
		Carbon tetra chloride	167.10
		Acetonitrile	3.01
		Catalyst - Cupric chloride	1.37
		DEA-HCL	1.50
		Sulphuric acid - 30%	246.14
		Dimethyl formamide	2.73
		16% Caustic lye	961.30
		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



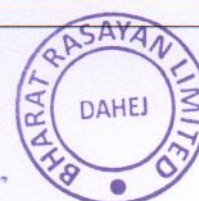
		Acetonitrile	0.00
		Sodium sulfate	0.00
		Oxalic acid	0.00
		Sodium bicarbonate (5%)	0.00
		Sodium Hydroxide	0.00
		Saturated sodium chloride solution	0.00
		Heptane	0.00
		PCBC	0.00
		Thiourea	0.00
		Sodium Hydroxide(48%)	0.00
		HCl (35%)	0.00
14	Imiprothrin Technical	Imiprothrin Alcohol	0.00
		1-R-Chrysanthemic 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



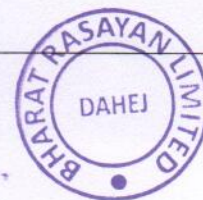
		Soda ash	51.37
		Thiosulphate	24.32
		Hydrochloric Acid (HCl)	732.92
		Catsyst PTSA	1.71
		Caustic Soda lye	272.28
		Mono Ethyl Glycol	1369.95
		Catalyst (CUCL)	51.37
		Toluene	2940.26
		Potassium Hydroxide (KOH)	667.85
		Phenol	1010.34
		Sulphuric Acid	54.80
		Triethyl amine	17.12
		Water	42400.01
17	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-Triazine	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
		Raney 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

- Notes : 1. Test results shall be referred to the tested sample(s) only and applicable parameter(s) only.
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E-mail : siddhi.ank@gmail.com

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





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

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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

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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

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