

IPCA/EHS/ES-2023-24/ 667

Date: 13/09/2024

To,
The Member Secretary,
M.P. Pollution Control Board,
Paryavaran Parisar,
E-5 Sector, Arera Colony,
BHOPAL - M.P.

Subject: - Submission of Environmental Statement for the year 2023-2024

Dear Sir,

We are enclosing herewith Environmental Statement Annual Report for the year 2023-24 in Form-V as per Environment (Protection) Rules, 1986.

Hope you will find it in order.

Thanking you,

Yours faithfully,

For IPCA LABORATORIES LTD.


13/09/2024

(Dr. Arun Chandra Karmakar)
(Unit Head)

Encl: As above

CC: (1) The Superintending Engineer (West), MPPCB, Bhopal
(2) The Sr. Scientific Officer (I), MPPCB, Bhopal
(3) The Regional Officer, MPPCB, Ujjain

M.P. POLLUTION CONTROL BOARD
Paryavaran Parisar, E-5 Sector, Arera Colony, Bhopal

Environmental Statement for the financial year (2023-2024) ending with 31st March'2024

Notification No. G.S.R. Dated 28-04-93 issued by Government of India

PART - A

S.No.	Particulars	Description
01	Name and address of the owner /Occupier of the Industry operation or process	M/s. Ipca Laboratories Limited P.O. Sejavta, Dist. Ratlam (M.P.)
02	Industry Category, Primary (STC Code), Secondary (SIC Code)	Red

3. Production capacity - Units : As per below Table

S. No.	Name of Products	Qty/Year(As per Consent)	Qty/ Year (At actual)
1	Dry Syrup	1.5 Millions Nos.	0.477 Millions Nos.
2	Injection	20 Million Nos.	10.169 Million Nos.
3	Liquid Orals	3300 KL	2210.777 KL
4	Ointment	150 MT	2.718 MT
5	R&D Products	5 MT	Nil
6	Tablets	2100 Millions Nos.	413.630 Millions Nos.
7	Synthetic Drugs API	4200 MT / Year	2130.814 MT / Year

4. Year of Establishment :1985

5. Date of last Environmental Statementsubmitted :06/09/2023

PART - B

WATER AND RAW MATERIAL CONSUMPTION

I) Water Consumption m³/ day:

Description		Consented Quantity m ³ / day	Actual Volume m ³ / day
Boiler Feed		625	486.99
Cooling Water		780	457.98
Mfg. Process	Bio-degradable	385	242.52
	Non bio-degradable and toxic		61.24
Domestic Purpose		540	388.82
Others			
Total water consumption		2330	1637.55

Sr. No.	NAME OF PRODUCT	PROCESS WATER CONSUMPTION PER UNIT OF PRODUCT OUTPUT M ³ / MT	
		During the Previous Financial Year 2022-2023	During Current Financial Year 2023-2024
A) BULK DRUGS :			
1.	METOCHLOPRAMIDE – HCl	3.00	3.00
2.	TRIMETHOPRIM	33.37	33.37
3.	ATENOLOL	8.68	8.68
4.	CHLOROQUINE PHOSPHATE	16.00	16.00
5.	PYRANTEL PAMOATE	29.34	29.34
6.	MORANTEL CITRATE	5.64	5.64
7.	FRUSEMIDE	21.71	21.71
8.	N-AMYLMETACRESOL	53.14	53.14
9.	Alpha - Beta Arteether	15.00	15.00
	Artemether	6.03	6.03
	Artesunate	18.26	18.26
	Artesunate (Sterile)	0.00**	0.00**
10.	CETIRIZINE DI HYDROCHLORIDE	68.85	68.85
11.	CHLORTHALIDONE	82.57	82.57
12.	CILOSTAZOLE	25.00	25.00
13.	CITALOPRAM HYDROBROMIDE	30.00	30.00
14.	CLOPIDOGREL BI-SULPHATE	53.84	53.84
15.	FLUCONAZOLE	29.00	29.00
16.	GLIMEPIRIDE	70.30	70.30
17.	HYDROXY CHLOROQUINE SULPHATE	20.00	20.00
18.	HYDROCHLOROTHIAZIDE	10.4	10.4
19.	LOSARTAN POTASSIUM	0.00**	0.00**
20.	METOPROLOL TARTRATE	60.00	60.00
	METOPROLOL SUCCINATE	20.00	20.00
21.	METHYLPHENIDATE-HCl	132.35	132.35
22.	NABUMETONE	12.00	12.00
23.	PROPRANOLOL HCl	22.00	22.00
24.	PAROXETINE HYDROCHLORIDEHEMIHYDRATE	4.24	4.24
25.	TRICLABENDAZOLE	11.06	11.06
26.	LUMEFANTRINE	140.69	140.69
27.	MESALAMINE	56.00	56.00
28.	ONDANSETRON HCl/ DIHCl	20.00	20.00

Sr. No.	NAME OF PRODUCT	PROCESS WATER CONSUMPTION PER UNIT OF PRODUCT OUTPUT M ³ / MT	
		During the Previous Financial Year 2022-2023	During Current Financial Year 2023-2024
29.	BENDROFLUMETHIAZIDE	16.96	16.96
30.	VALSARTAN	30.43	30.43
31.	CARVEDILOL	21.46	21.46
32.	QUETIAPINE HEMIFUMARATE	35.22	35.22
33.	SODIUM ALENDRONATE	10.24	10.24
34.	INDAPAMIDE	150.00	150.00
35.	PROGUANIL HCL	11.00	11.00
36.	TRAMADOL HCL	58.43	58.43
37.	SULFADOXINE	16.66	16.66
38.	ALLOPURINOL	14.91	14.91
39.	BISOPROLOL FUMARATE	27.01	27.01
40.	ETODOLAC	11.84	11.84
41.	WARFARIN SODIUM CLATHRATE	169.29	169.29
42.	RESPERIDONE	41.44	41.44
43.	RACTOPAMINE HYDROCHLORIDE	0.00**	0.00**
44.	EBASTINE	10.00	10.00
45.	AMLODIPINE BESYLATE	10.00	10.00
46.	ESZOPICLONE	109.65	109.65
47.	FAMOTIDINEX	14.74	14.74
48.	HYDROXYZINE DI HYDROCHLORIDE	10.32	10.32
49.	LEVOFLOXACINE HEMIHYDRATE	4.01	4.01
50.	LAMOTRIGINE	44.17	44.17
51.	TORSEMIDE	21.96	21.96
52.	OLANZAPINE	30.55	30.55
53.	SODIUM FRUSEMIDE	0.243	0.243
54.	SUMATRIPTAN SUCCINATE	130.52	130.52
55.	VENLAFAXINE HYDROCHLORIDE	43.55	43.55
56.	TELMISARTAN	23.93	23.93
57.	ZOPICLONE	47.70	47.70

Note:

*Product Not Manufactured

** These products do not require water.

B) FORMULATION:

S. No.	NAME OF PRODUCT	PROCESS WATER CONSUMPTION PER UNIT OF PRODUCT OUTPUT	
		During the Previous Financial Year 2022-2023	During Current Financial Year 2023-2024
01	Tablets	1890.00 Kg/ Million Nos.	1890.00Kg/ Million Nos.
02	Liquid Orals	4099.00 Kg / KL	4099.00 Kg / KL
03	Injection	46296.3 Kg/Million Nos.	46296.3 Kg/Million Nos.

II) RAW MATERIAL CONSUMPTION - PRODUCT WISE :

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
01	<i>Metoclopramide HCl</i>	N.N.D	0.672
		Para Toulene Sulphonic Acid	0.065
		Soda Ash	0.911
		Sodium hydrosulfite	0.005
		Chlorinated Compound	1.084
		Caustic Soda Flakes	0.434
		Hydrochloric Acid	1.337
		S.B. Toluene	0.157
		Activated Carbon - 320	0.108
		Celite - 545	0.019
		METO BASE CRUDE	1.120
		Methanol	1.872
		Activated Charcol -(BW-280)	0.029
		Celite - 545	0.010
		METO BASE PURE	0.923
		Hydrochloric Acid LR Grade	0.304
Isopropyl Alcohol	0.675		
02	<i>Trimethoprim</i>	Methanol	0.9783
		Sodium Methoxide solution	1.2522
		Guanidine Nitrate	0.6261
		Anilino compound	1.3043
		Methanol (Flushing)	2.6304
		Acetic Acid	0.5609
		EDTA	0.0009
		Activated Carbon	0.0522
		EDTA	0.0009
		Activated Carbon	0.0522
		Ammonia	0.1130
		Activated Carbon	0.0174
		Ammonia	0.1130

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
03	Atenolol	Para hydroxy phenyl acetamide(PHPA)	0.682
		Epichloro hydrin(EPH)	0.837
		Sodium Hydroxide Flakes	0.384
		Mono Isopropyl Amine	9.273
		Hydrochloric Acid(C.P. grade)	0.840
		Hyflow(celite-545) / Hyflow(Dicamex4107)	0.091
		Activated Carbon	0.327
		Methanol	0.000
		Disodium EDTA	1.818
04	Chloroquine phosphate	Novaldiamine	0.369
		Activated Charcol -(BW-280)	0.018
		Celite - 545	0.007
		4:7 DCQ Pure	0.455
		Caustic Soda Lye (48%)	0.495
		Phosphoric Acid	0.545
		Methanol	0.564
		Phenol	0.300
		S.B. Toluene	0.192
		C.Q.P. CRUDE	1.200
		Citric Acid	0.001
		Phosphoric Acid	0.001
		Isopropyl Alcohol	0.662
05	Pyrantel Pamoate	T2A	0.299
		Methyl format	0.299
		THP	0.439
		IPA	1.848
		Citric acid	0.479
		Pyrental citrate	0.824
		DSP	0.957
		Hyflo	0.012
		Sodium Hydroxide	0.051
06	Morantel Citrate	3 Methyl Thiophene	0.566
		Phosphorous Oxychloride(POCL3)	1.109
		Dimethyl Formamide	0.535
		Caustic Soda Lye (48%)	2.719
		Ethylene Dichloride	0.189
		Conversion Charges of 3MT2A	0.723
		Celite - 545	0.005
		Citric Acid	0.686
		Methyl Formate	0.440
		THP - DISTILLED	0.633
		3MT2A	0.440
		Activated Charcol -(BW-280)	0.024
		Celite - 545	0.005
		MORANTEL CITRATE CRUDE	1.296
Isopropyl Alcohol	0.440		
07	Frusamide	Lasamide	1.214

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Furfurylamaine	2.234
		IPA	7.857
		Caustic Flakes	0.357
		Activated Carbon	0.114
		Celite - 545	0.004
		Acetic acid	0.286
08	<i>N-Amylmetacresol</i>	Aluminium Chloride	8.707
		Metacresol	4.803
		Mono Chloro Benzene	11.429
		VALERYL CHLORIDE	5.042
		Sodium Bi-Carbonate	0.245
		Sodium Sulphate	1.214
		Triethylamine	5.043
		Caustic Soda Flakes	0.106
		Hydrochloric Acid	1.778
		Methylene Chloride	24.919
		Conversion Charges of OVMC	5.714
		OVMC (AT JOB)	9.143
		Hydroxylamine Hcl	0.046
		OVMC PURIFICATION	1.714
		Citric Acid Monohydrate	0.017
		Soda Ash	0.077
		Sodium Acetate	0.009
		Isopropyl Alcohol	0.942
		Methylene Chloride	1.363
		10% Pd/C Catalyst (TYpe 394)	0.001
		Reactivation Cost of Catalyst (for 10%)	0.013
		AMC CRUDE	1.851
		Piperazine Anhydrous	1.071
		Cyclohexane	1.265
		Isopropanolic H. Acid(IPA+HCL)	4.415
		Isopropyl Alcohol	1.553
09 A	<i>Artemether</i>	Artemesinin	0.698
		Sodium Borohydride	0.116
		Acetic Acid	0.349
		Methanol	4.093
		D H A	1.070
		Sodium Bi-Carbonate	0.011
		Galaxy 12	1.019
		Methanol	3.460
		Acetyl Chloride LR Grade	0.016
		ARTEMETHER CRUDE	1.023
		Celite - 545	0.009
		Methanol	1.535
09B	<i>Artesunate</i>	ARTEMISININ	0.798
		Sodium Borohydride	0.133
		Acetic Acid	0.399

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Methanol	4.681
		DHA	0.798
		Activated Carbon - 320	0.016
		Celite - 545	0.021
		Succinic Anhydride	0.559
		Triethylamine (For Artesunate)	0.399
		Acetic Acid	0.176
		Acetone	3.362
09C	<i>Alpha-Beta Arteether</i>	ARTEMISININ - (NON DMF)	2.381
		Sodium Borohydride	0.397
		Acetic Acid	1.190
		Methanol	13.968
		D H A	1.016
		Catalyst RA	0.059
		Celite - 545	0.016
		SILICA GEL (60-120 MESH)	2.048
		Sodium Bi-Carbonate	0.051
		Acetone	0.635
		Ethyl Acetate	0.794
		Ethyl Alcohol (Absolute Alcohol)	2.032
		Methanol	1.524
		N-Hexane	11.429
09D	<i>Artesunate (Sterile)</i>	Artesunate	2.00
		Ethyl Alcohol (For batch)	8.33
10	<i>Cetirizine Di HCl</i>	PCBP	1.148
		Sodium borohydride	0.115
		Methanol	1.088
		Conc. Hydrochloric Acid	1.148
		Sodium Hydroxide	0.597
		PCBH	1.361
		Piprazine Anhydrous	1.894
		Toluene	6.885
		PCBHP	1.361
		2-Chloro ethanol	0.689
		Triethyl amine	1.082
		Sodium mono chloro acetate (SMCA)	0.666
		Dimethyl Formamide	2.410
		Potassium hydroxide	0.574
		Acetone	30.445
		Activated charcoal	0.230
		Hyflo (Celite)	0.230
		MDC	18.476
11	<i>Chlorthalidone</i>	Activated Charcol	0.070
		Celite - 545	0.011
		Hydrogen Paroxide 50%	0.387

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		CPSP	0.704
		Caustic Soda Flakes	0.262
		Hydrochloric Acid (C.P. grade)	0.648
		N-Octanol	0.001
		CHLORTHALIDONE CRUDE	0.634
		Activated Charcol -(BW-280)	0.070
		Celite - 545	0.011
		Methanol	1.521
		CHLORTHALIDONE IST PURE	1.211
		Activated Carbon - 320	0.127
		Celite - 545	0.023
		Caustic Soda Flakes	0.456
		Hydrochloric Acid (C.P. grade)	1.200
		Isopropyl Alcohol	2.114
12	<i>Cilostazol</i>	CBT [5-(4-CHLOROBUTYL)-1-CYCLOHEXYL-1H-TETRA	0.87
		Potassium Carbonate	0.99
		CATALYST 'C' FOR CILOSTAZOL	0.03
		HCS [6-HYDROXY-3,4-DIHYDROQUINAZOLONE]	0.54
		Caustic Soda Flakes	0.10
		Isopropyl Alcohol	0.14
		Methanol	1.21
		CILOSTAZOLE CRUDE	1.06
		Activated Carbon - 320	0.12
		Celite - 545	0.03
		Potassium Hydroxide	0.03
		Isopropyl Alcohol	2.26
13	<i>CITALOPRAM HYDROBROMIDE</i>	CYANO-DIOL [4-(4-DIMETHYLAMINO)-1-(4-FLUOROP	1.075
		Activated Charcol -(BW-280)	0.054
		Celite - 545	0.022
		Hydrobromic Acid	0.484
		Liquor Ammonia	5.516
		Sulphuric Acid (Commercial grade)	2.581
		Acetone	7.991
		S.B. Toluene	0.763
14	<i>Clopidogrel Bi Sulphate</i>	Thiophene -2- Ethylamine	1.145
		Dimethyl Formamide	1.440
		Para Formaldehyde	0.302
		Ethylene Dichloride	2.119
		Hcl Gas	0.458
		Bromine Liquid	1.041
		Ortho Chloro Phenyl Acetic Acid	0.521
		Phosphrous Trichloride	0.208
		CLP-1-T	0.573
		Soda Ash	0.822
		Sodium Bi-Carbonate	0.195

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Sodium Meta Bi Sulphite	0.263
		Sulphuric Acid (C.P.Grade)	0.338
		Acetone	2.749
		Ethylene Dichloride	1.145
		Methanol	0.417
		Methylene Chloride	0.694
		Conversion Charges of CLP-II	1.145
		L-Camphor Sulphonic Acid	3.494
		CLP-II	5.727
		Ammonia Gas	0.687
		Acetone	7.247
		Methylene Chloride	14.904
		CLP-III	2.692
		Acetone	6.071
		CLP-III (PURIFICATION)	1.375
		Activated Carbon (Carbopol SC 40)	0.066
		Celite - 545	0.023
		Sodium Bi-Carbonate	0.596
		Sodium Sulphate	0.206
		Ammonia Gas	0.115
		Sulphuric Acid LR Grade	0.254
		Methylene Chloride	6.300
		Methyl Propyl Ketone	2.159
15	<i>Fluconazole</i>	1,2,4-Triazole	0.608
		Potassium Hydroxide	1.063
		Sodium Chloride	1.013
		Trimethyl Sulfoxonium Iodide	1.063
		T D A	1.519
		Hydrochloric Acid (C.P. grade)	0.911
		Ethyl Acetate	1.553
		Isopropyl Alcohol	0.608
		S.B. Toluene	0.570
		Conversion Charges of TMSI Recovery	0.456
		Activated Carbon (Carbopol SC 40)	0.051
		Celite - 545	0.010
		FLUCONAZOLE CRUDE	1.468
16	<i>Glimepiride</i>	Ethyl Chloro Formate	0.470
		Activated Carbon - 320	0.050
		Celite - 545	0.040
		Triethylamine	0.720
		MPR-II (Deemed Export)	1.000
		Acetic Acid	0.648
		Acetone	6.400
		Methylene Chloride	38.544
		4-(Dimethylamino) Pyridine	0.146
		Trans-4-Methyl Cyclohexylam	0.340
		MPR - III	1.000

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Acetone	20.400
		S.B. Toluene	25.542
17	<i>Hydroxy Chloroquine sulphate (HCQS)</i>	Potassium Iodide	0.027
		4:7 D.C.Q. Pure	0.667
		Hydroxy Novoldiamine	0.973
		Caustic Soda Flakes	0.013
		Activated carbon (BW 320)	0.089
		Hyflow Supercell (Celite)	0.022
		Liq. Ammonia	1.222
		Sulphuric Acid (L.R. Grade)	0.267
		Isopropyl Alcohol	8.689
		Phosphoric acid	0.945
		Methanol	11.689
		MDC	6.333
18	<i>Hydrochlorothiazide</i>	Methanol	2.421
		Hydrochloric Acid	2.105
		DSA (Chloramino phenamide	1.053
		Paraformaldehyde	0.122
19	<i>Losartan Potassium</i>	Losartan base	1.068
		Methanol	5.342
		KOH	0.160
		Activated Carbon	0.171
		Acetone	2.564
		IPA	2.564
		Hyflo (Celite)	0.034
		Hydrose	0.013
20 A	<i>Metoprolol Succinate</i>	Epichlorohydrine (EPH)	0.545
		Para Methoxy Ethyl Phenol	0.682
		Caustic Soda Flakes	0.205
		Isopropylamine	0.333
		Succinic Acid	0.341
		Activated Carbon	0.141
		Celite - 545	0.023
		EPOXIDE	0.909
		Caustic Soda Flakes	0.301
		Hydrochloric Acid (C.P. grade)	0.537
		Methanol	0.986
		S.B. Toluene	0.216
20B	<i>Metoprolol Tartrate</i>	Epichlorohydrine (EPH)	0.464
		Para Methoxy Ethyl Phenol	0.580
		Caustic Soda Flakes	0.174
		Isopropylamine	0.278
		Tartaric acid	0.309
		Activated Carbon - 320	0.093
		Celite - 545	0.019
		EPOXIDE	0.773
		Caustic Soda Flakes	0.209

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Hydrochloric Acid (C.P. grade)	0.406
		Isopropyl Alcohol	1.343
		S.B. Toluene	0.193
21	<i>Methylphenidate HCl</i>	Celite - 545	0.154
		1N-Perchloric Acid in Acetic Acid	4.327
		Sodium Bi-Carbonate	1.058
		PHENYL PYRIDINE ACETAMIDE [PPAM]	4.327
		Caustic Soda Flakes	13.865
		Methanol	1.923
		5% Palladium on Carbon	0.038
		Potassium Hydroxide	3.846
		Hydrochloric Acid (C.P. grade)	31.173
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.308
		Celite - 545	0.154
		Activated Carbon - 320	0.096
		Sodium Sulphate	0.673
		Thionyl Chloride	3.077
		Liquor Ammonia	4.808
		Isopropanolic H. Acid(IPA+HCL)	1.250
		Isopropyl Alcohol	14.462
		Methylene Chloride	13.365
22	<i>Nabumetone</i>	Raney Nickel Catalyst (Monarch)	0.043
		Activated Carbon - 320	0.067
		Celite - 545	0.057
		Hydrogen Gas	0.381
		Nitrogen Gas	0.333
		6-METHOXY-2-NAPHTHALDEHYDE	1.429
		Caustic Soda Flakes	0.314
		Sulphuric Acid	0.345
		Acetone	2.933
		Isopropyl Alcohol	1.000
		Methanol	0.152
		Methylene Chloride	0.629
		S.B. Toluene	1.750
23	<i>Propranolol HCl</i>	Alpha Naphthol (D.E.)	0.787
		Epichlorhydrine (EPH)	1.007
		Caustic Soda Flakes	0.224
		S.B. Toluene	0.018
		Isopropylamine	0.861
		EPOXIDE	1.630
		S.B. Toluene	0.481
		Isopropyl Alcohol	1.506
		Conversion Charges IPA+HCL	1.852
		PROPRANOLOL BASE	1.148
		IPA + HCL	0.787
		Isopropyl Alcohol	0.324
		Activated Carbon - 320	0.104

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Celite - 545	0.007
		Caustic Soda Flakes	0.028
		Isopropyl Alcohol	0.481
24	<i>Paroxetine Hydrochloride Hemihydrate</i>	Carbinol	0.606
		Dichloromethane	2.424
		Methane sulphonyl chloride	0.364
		Triethyl amine	0.388
		Sodium sulphate	0.076
		Sodium hydroxide flakes	0.121
		Sesamol	0.394
		Methanol	0.909
		Toluene	3.636
		Activated Carbon (Norrit CG-1)	0.015
		Triethyl amine	0.091
		Phenyl chloro formate	0.509
		Isopropyl alcohol	3.636
		K ₂ CO ₃	0.152
25	<i>Triclabendazole</i>	PNA	1.176
		Rainey.Nickle-	0.051
		MethanolOH-	10.202
		Hyflow-	0.019
		Ammonia gas	0.221
		Hydrazine Hydrate	0.539
		DM Water	11.059
		Carbon disulfide	0.424
		Potassium Hydroxide	0.282
		Toluene	7.689
		Activated Carbon	0.082
		Methyle bromide gas	0.409
		BTAC	0.054
		DMS	0.664
		Sodium Bromide	0.545
		Hexane	0.085
26	<i>Lumefantrine</i>	DBA	0.879
		Methanol	10.549
		Sodium hydroxide Flakes	0.176
		Para chloro benzaldehyde	0.352
		Acetone	15.824
		Hyflo (Celite)	0.062
27	<i>Mesalamine</i>	5-NITRO SALICYLIC ACID (OHNBA)	1.515
		Raney Nickel Catalyst (Monarch)	0.030
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.400
		Celite - 545	0.130
		Disodium EDTA	0.008
		Sodium hydrosulfite	0.008
		Caustic Soda Flakes	0.345
		Hydrochloric Acid	0.018

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Hydrochloric Acid (C.P. grade)	2.900
		Liquor Ammonia	1.636
		Thioglycolic Acid	0.010
		Acetone	4.698
28	<i>Ondansetron HCL</i>	2-Methyl Imidazole	1.931
		METHYL KETO INDOLE	0.935
		N,N-Dimethylamine Hydrochloride	0.467
		Para Formaldehyde	0.187
		Acetic Acid	7.850
		Methanol	2.243
		N,N-Dimethyl Acetamide	1.402
		S.B. Toluene	1.607
		Activated Carbon (Carbopol SC 40)	0.120
		Celite - 545	0.037
		Dimethyl Formamide	2.575
		Hydrochloric Acid (C.P. grade)	0.520
		ONDANSETRON FREE BASE	1.196
		Isopropyl Alcohol	0.374
		Activated Carbon (Carbopol SC 40)	0.237
		Celite - 545	0.075
		ONDANSETRON HCL CRUDE	1.196
		Isopropyl Alcohol	1.402
29	<i>Bendroflumathiazide Hemifumerate</i>	Phenyl Acetaldehyde Dimethylac	0.4816
		Activated Carbon - 320	0.0656
		Celite - 545	0.0160
		TFDSA	0.8800
		Acetic Acid	0.0968
		Acetone	0.2496
		Methanol	2.2912
		Methylene Chloride	4.7170
		N-Butanol	0.0713
		STAGE-II (BFT CRUDE)	1.0360
		Acetone	0.2915
		Methanol	5.2624
30	VALSARTAN	MV-I HCl	1.087
		Sodium bi carbonate	0.783
		Valreyl chloride	0.609
		Toluene	16.957
		Sodium chloride	0.804
		Potassium carbonate	0.652
		Hyflo (Celite)	0.017
		TBTC	2.130
		Caustic soda lye	0.870
		Sodium Hydroxide	0.609
		Activated Carbon	0.067
31	Carvedilol	4-HOC	1.250
		EPH	0.948

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Dimethyl sulfoxide	3.125
		Sodium hydroxide	0.273
		Iso propyl Alcohol	9.375
		DMSO	1.500
		2-(2-methoxyphenoxy)ethylamine	2.625
		MDC	6.250
		HCL 33%	10.625
		Sodium carbonate	0.375
		Charcoal	0.063
		Ethyl acetate	9.375
32	Quetiapine Hemifumarate	2-(2-CHLOROETHOXY)-ETHANOL	0.688
		Piperazine Anhydrous	0.829
		Phosphorous Oxychloride(POCL3)	0.683
		ACTIVATED CARBON	0.141
		Celite - 545	0.020
		N,N-DIMETHYL ANILINE	0.266
		Soda Ash	0.766
		Sodium Iodide	0.022
		Sodium Chloride	0.517
		Dibenzo[b,f][1,4]thiazepine-11-[10h]one99%min	0.829
		FUMARIC ACID	0.462
		Ethyl Alcohol (Absolute Alcohol)	6.220
		S.B. Toluene	6.356
		QUETIAPINE CRUDE	1.415
		Ethyl Alcohol (Absolute Alcohol)	5.341
33	Alendronate Sodium	Phosphrous Trichloride	2.210
		2-Pyrrolidone	0.323
		Activated Charcol -(BW-280)	0.008
		Celite - 545	0.032
		Methane Sulphonic Acid	2.290
		Caustic Soda Flakes	1.726
		Caustic Soda Lye (48%)	4.738
		Hydrochloric Acid (C.P. grade)	0.016
		Sodium Hydride (60%)	2.419
34	Indapamide	2-Methyl Indoline	0.980
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.098
		AMMONIUM CARBONATE	2.412
		Celite - 545	0.098
		Tata Salt	0.275
		Sodium Bi-Carbonate	0.588
		Sodium Nitrite	0.667
		Zinc Powder	1.676
		Hydrochloric Acid (C.P. grade)	2.475

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Isopropyl Alcohol	0.392
		Methanol	5.490
		S.B. Toluene	5.147
		Tetra Hydro Furan	8.578
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.118
		Celite - 545	0.196
		Sodium Bi-Carbonate	2.071
		Thionyl Chloride	8.701
		3-(AMINO SUFONYL)-4-CHLORO CSBA	2.451
		AMINO METHYL INDOLINE	1.029
		Di-Isopropyl Ether	4.657
		S.B. Toluene	7.598
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.382
		Celite - 545	0.196
		Disodium EDTA	0.018
		INDAPAMIDE CRUDE	1.887
		Isopropyl Alcohol	9.412
		Methanol	3.676
35	<i>Proguanil Hydrochloride</i>	Isopropylamine	0.939
		PARA CHLORO ANILINE	0.455
		SODIUM DICYANAMIDE	0.227
		Celite - 545	0.091
		Hydrochloric Acid	3.818
		Ethyl Acetate	1.091
		N-Butanol	0.682
		Activated Carbon (Carbopol SC 40)	0.782
		Methanol	0.058
36	<i>Tramadol HCl</i>	N,N-Dimethylamine Hydrochloride [ND]	0.864
		Para Formaldehyde	0.321
		Sodium Sulphate	0.217
		Caustic Soda Flakes	0.543
		Hydrochloric Acid (C.P. grade)	0.013
		CYCLOHEXANONE	1.087
		S.B. Toluene	1.440
		Magnesium Turning	0.313
		Ammonium Chloride	2.819
		Celite - 545	0.022
		Iodine	0.001
		3-Bromo Anisole (Meta Bromo Anisole)	2.086
		Methanol	1.739
		TETRAHYDROFURAN	2.235
		S.B. Toluene	2.337
		MANNICH BASE	1.353
		Salicylic Acid I.P.	0.989
		Methanol	1.000
		CIS & TRANS PURE	1.793
		Methanol	1.013

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		SALICYLIC ACID SALT (CRUDE)	1.788
		Activated Charcol -(BW-280)	0.152
		Celite - 545	0.022
		Caustic Soda Flakes	0.959
		Hydrochloric Acid (C.P. grade)	0.082
		Isopropyl Alcohol	1.391
		S.B. Toluene	1.100
		SALICYLIC ACID SALT (PURE)	1.679
		Soda Ash	0.130
		Isopropanolic H. Acid(IPA+HCL)	0.859
		Isopropyl Alcohol	0.926
		TRAMADOL BASE	1.027
37	<i>Sulfadoxine</i>	Sulphanilamide	3.866
		Caustic Soda Flakes	0.928
		Methanol	3.351
		4,6 Dichloro-5-Methoxypyrimidine (DCMP)	1.546
		Dimethyl Formamide	1.289
		Hydrochloric Acid (C.P. grade)	1.088
		Methanol	1.649
		SODIUM SULFANILAMINDE	3.340
		Activated Carbon (Carbopol SC 40)	0.198
		Celite - 545	0.041
		Hydrochloric Acid LR Grade	1.404
		Methanol	4.124
		MCP PURE	1.979
		Sodium Methylene Solution 25	4.112
		Activated Carbon (Carbopol SC 40)	0.052
		Celite - 545	0.021
		Liquor Ammonia	0.371
		Acetic Acid	0.423
		Methanol	0.536
		SULFADOXINE CRUDE	1.031
38	<i>Allopurinol</i>	3-Aminopyrazole-4-carboxamide Hemisulfate (3APC)	1.455
		Formamide	4.364
		Liquor Ammonia	2.207
		Activated Carbon (SC 40)	0.116
		Hyflow	0.015
		Formamide for Centrifuge Cake washing	1.164
39	<i>Bisoprolol Fumarate</i>	PARA HYDROXY BENZALDEHYDE	0.904
		Activated Carbon - 320	0.026
		Celite - 545	0.023
		Sodium Borohydride	0.181
		Caustic Soda Flakes	0.303
		Acetic Acid	0.904

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Ethyl Acetate	0.376
		4-HYDROXY BENZYL ALCOHOL	0.756
		Potassium Carbonate	0.090
		S.B. Toluene	0.389
		Resin - 15	0.568
		Isopropoxy Ethanol	1.249
		Epichlorhydrine (EPH)	0.701
		ISOPROPOXY COMPOUND	1.164
		TBAB	0.008
		Caustic Soda Flakes	0.252
		N-Hexane	1.045
		Isopropylamine	0.678
		BISOPROLOL EPOXIDE	1.299
		S.B. Toluene	0.194
		BISOPROLOL BASE	1.130
		Activated Carbon - 320	0.056
		Celite - 545	0.023
		FUMARIC ACID	0.226
		Isopropyl Alcohol	3.322
40	<i>Etodolac</i>	7-ETHYL TRYPTOPHOL (98%)	1.479
		METHYL -3- OXOPENTANOATE	1.096
		Sulphuric Acid (C.P.Grade)	0.740
		Methanol	7.732
		Hyflow (Purified Silicons-Celite)	0.008
		ETDE	1.205
		Caustic Soda Flakes	0.326
		Hydrochloric Acid	0.838
41	<i>Warfarin Sodium Clathrate</i>	4-Hydroxy Coumarin	1.020
		Triethylamine	0.051
		Benzal Acetone	1.020
		Caustic Soda Flakes	0.286
		Sulphuric Acid (Commercial grade)	0.367
		Methylene Chloride	4.714
		Activated Charcol -(BW-280)	0.051
		Activated Carbon Darco G 60	0.179
		Caustic Soda Flakes	0.223
		Sulphuric Acid (Commercial grade)	0.316
		Methylene Chloride	1.650
		WARFARIN CRUDE	1.786
		Acetone	9.102
		WARFARIN PURE-I	1.607
		Activated Charcol -(BW-280)	0.051
		Activated Carbon Darco G 60	0.126
		Caustic Soda Flakes	0.158
		Isopropyl Alcohol	10.555
		Methanol	6.276
		WARFARIN PURE	1.255

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
42	Risperidone	Acetic Anhydride	3.86
		Methylene Chloride	4.38
		Isonipectic acid	2.70
		Thionyl Chloride	3.78
		ACE	1.62
		Methylene Chloride	3.15
		1,3 difluoro benzene	2.31
		Activated Charcol -(BW-280)	0.20
		Celite - 545	0.36
		Sodium Sulphate	0.40
		Hydrochloric Acid (C.P. grade)	8.11
		ACID CHLORIDE	1.91
		Isopropyl Alcohol	1.08
		Methylene Chloride	5.89
		Anh. Aluminium chloride	2.38
		Hydroxylamine Hcl	0.83
		Ammonium Acetate	0.69
		Caustic Soda Flakes	0.29
		HYD. PRODUCT	1.89
		Ethyl Alcohol (Absolute Alcohol)	2.10
		Potassium Tertiary Butoxide	5.69
		Hydrochloric Acid (C.P. grade)	10.09
		OXIME	1.20
		Isopropyl Alcohol	0.48
		3-CTMPP	0.79
		Pottasium Iodide	0.01
		Soda Ash	0.75
		6F4PBI-Hcl	0.90
		n-PROPYL ALCOHOL	0.90
		Activated Carbon (Carbopol SC 40)	0.12
		Celite - 545	0.09
		Hydrochloric Acid (C.P. grade)	0.77
Liquor Ammonia	2.40		
RISPERIDONE CRUDE	1.23		
Methylene Chloride	3.24		
RISPERIDONE P1	1.11		
Ethyl Alcohol (Absolute Alcohol)	1.41		
43	Ractopamine Hydrochloride	Methanol	5.132
		RIT	0.513
		5% Pd/C (50% Wet)	0.021
		Hydrogen Gas	0.000
		Methanol	0.662
		Ethyl Acetate	2.252
44	Ebastine	Piperidine HCL	1.429
		Toluene	20.143
		Caustic coslution	0.286
		DMF	3.143

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		K2CO3	2.500
		Pott. Iodide	0.186
		Methanol (Flushing)	7.429
		Carbon	0.186
45	Amlodipine Besylate	Methyl Acetoacetate (MAA)	1.587
		Ammonia Gas	0.349
		Methanol	1.270
		Phthalic Anhydride	0.952
		Toluene	3.619
		Mono Ethanol Amine	0.408
		Hydroxy Ethyl Phthalimide (HEP) (Stage-II)	0.952
		Toluene	6.286
		Sodium Hydride (60%)	0.476
		Ethyl-4-chloro Aceto acetate	0.971
		Reagent-I (Ethanol)	0.381
		Hydrochloric Acid (CP grade)	1.029
		Sodium Bi carbonate	0.019
		Acetic Acid	4.981
		Catalyst-I	0.081
		Ortho Chloro Benzaldehyde	0.672
		n- Hexane	0.771
		MAC (Stage-I)	1.105
		Methanol	5.733
		PAML (Stage-III)	1.238
		Mono Methyl Amine (35-40%)	4.952
		Methylene Dichloride	8.667
		Benzene Sulphonic acid	0.433
		Ethyl Acetate	7.490
		Activated carbon (NS-55)	0.050
		Hyflo	0.024
46	Eszopiclone	Toluene	6.182
		Acetic anhydride	2.446
		PTSA	0.020
		PDC	2.038
		Toluene for flushing	2.038
		ACP	1.889
		Acetic anhydride	0.408
		CPDO	2.527
		Acetic acid	0.178
		CPHP	2.090
		Acetone	22.052
		Triethylamine	1.852
		DMAP	0.192
		Zopiclone crude	2.925
		Acetonitrile	62.080
		Methanol	35.727
		DBTA.H2O	2.830

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Zopiclone DBTA salt	2.632
		MDC	23.692
		Caustic	0.467
		Carbon BW 280	0.053
		Ethyl acetate	36.880
47	Famotidine	1,3-DICHLORO ACETONE	1.081
		GUANYL THIOUREA	1.027
		THIO UREA	0.649
		POTASSIUM IODIDE	0.054
		ACETIC ACID (GNFC)	0.649
		ACETONE	2.551
		ACRYLONITRILE	1.985
		SULFAMIDE	1.081
		ACETONE	0.843
		Conversion Charges of Suleshwari	2.162
		FTE-A (ITU)	1.243
		FTE-B (IF)	1.043
		CAUSTIC SODA FLAKES	0.746
		METHANOL	1.486
		ACTIVATED CARBON (70 S)(1028-B)	0.108
		FTE-C (CRUDE)	1.081
		METHANOL	1.946
48	Hydroxyzine di hydrochloride	Para-Chlorobenzhydryl Piperazine (PCBHP)	0.789
		TBAB	0.016
		ACTIVATED CARBON NORIT CG1 / MM-WVI	0.118
		Celite - 545	0.053
		Soda Ash	0.292
		Sodium Sulphate	0.395
		Sodium Iodide	0.016
		Sodium Chloride	0.632
		Di-Isopropyl Ether	3.421
		Methanol	2.016
		S.B. Toluene	2.105
		2 Chloro Ethoxy Ethanol (2-CEE)	0.379
		Hcl Gas	0.789
49	Levofloxacin Hemihydrate	Conc. HCl	3.130
		Levofloxacin Ethyl Ester	1.250
		Glacial Acetic Acid	3.130
		Metanol Washing	0.630
		DMSO	1.000
		Levofloxacin Hemihydrate	1.000
		Triethylamine	0.480
		N-Methyl-piperazine	0.430
		Iso propyl Alcohol	1.000
		Ethanol	17.280
		Activated carbon	0.020
50	Lamotrigine	2,3-Dichlorobenzoyl cyanide (DCBOC)	1.00

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Aminoguanidine bicarbonate (AGBC)	0.88
		Sulphuric Acid	3.70
		10% NaOH solution	3.50
		Ethanol	12.20
51	Torseamide	Sulphanilamide	3.866
		Caustic Soda Flakes	0.928
		Methanol	3.351
		4,6 Dichloro-5-Methoxypyrimidine (DCMP)	1.546
		Dimethyl Formamide	1.289
		Hydrochloric Acid (C.P. grade)	1.088
		Methanol	1.649
		SODIUM SULFANILAMINDE	3.340
		Activated Carbon (Carbopol SC 40)	0.198
		Celite - 545	0.041
		Hydrochloric Acid LR Grade	1.404
		Methanol	4.124
		MCP PURE	1.979
		Sodium Methylene Solution 25	4.112
		Activated Carbon (Carbopol SC 40)	0.052
		Celite - 545	0.021
		Liquor Ammonia	0.371
		Acetic Acid	0.423
		Methanol	0.536
		SULFADOXINE CRUDE	1.031
52	Olanzapine	Malanonitrile	0.781
		Propionaldehyde	0.813
		TEA	0.625
		Sulfur	0.375
		DMF	2.344
		Methanol	0.391
		AMC	1.328
		OFNB	1.357
		KOH	1.359
		DMF	1.328
		NMC	1.313
		Raney Nickel	0.133
		Hydrogen gas	66.406
		Methanol	17.266
		Hyflo	0.133
		Conc. HCl	3.984
		AB.HCl	1.328
		NMP	1.992
		DMSO	0.664
		Toluene	10.625
		Methanol	7.969
53	Sodium Frusemide	2,4-Dichloro Toluene	0.1476
		Caustic Soda Lye (48%)	0.1241

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		Liquor Ammonia	0.5269
		Nitric Acid 58%	0.2952
		Chloro Sulphonic Acid	0.9269
		Other Material Cost of Lasamide	0.1379
		Conversion Charges of Lasamide	0.1379
		Furfurylamine	0.8505
		Caustic Soda Flakes	0.3448
		LASAMIDE	1.1724
		Isopropyl Alcohol	0.3862
		Activated Charcol -(BW-280)	0.0552
		Celite - 545	0.0041
		Disodium EDTA	0.0006
		N.A.FRUSEMIDE SALT CRUDE	1.7241
		Isopropyl Alcohol	0.3200
54	Sumatriptan Succinate	HMMS.Hcl	2.667
		CHBS	2.347
		DHP	0.373
		IPA	24.000
		Hyflow	0.947
		Potassium Carbonate Solution	0.133
		MDC	34.667
		Sodium Hydroxide	1.273
		AIMS Crude	1.867
		Acetonitrile	46.667
		Activated carbon	0.277
		Acetonitrile	5.600
		DMF	0.933
		Acetonitrile	3.733
		AIMS Pure	1.467
		Methanol	56.000
		DHP	1.467
		Acetic acid	0.293
		Sodium borohydride	0.352
		Hcl	0.000
		Ethyl Acetate	13.333
		Succinic Acid	0.653
		Sum Base Pure	0.933
55	Venlafaxine Hydrochloride	4-MPA	0.893
		Sod. Methoxide	1.964
		Methanol	0.893
		cyclohexanone	0.774
		Methanol	0.952
		Toluene	13.125
		HCOMPA	1.161
		AMPEC	0.952
		Formaldehyde (37%)	0.880
		Formic Acid (98-100%)	0.849

Sr. No.	Name of Product	Name of Raw Materials	Consumption of raw Materials per unit output Qty. Required for 1.0 T of Product (in MT)
		NaOH Flakes for Rxn	0.159
		NaOH Flakes for isolation	0.425
		Activate carbon (SC-40)	0.063
		Hyflo	0.179
		IPA.HCl (20%)	0.726
56	Telmisartan	BIM	0.683
		Methy isobutyl ketone	3.415
		TBAB	0.014
		KOH	0.437
		Methanol	15.610
		Activated carbon	0.062
		Hyflow(celite-545) / Hyflow(Dicamex4107)	0.020
		Acetic acid	1.182
57	Zopliclone	Toluene	4.371
		Acetic anhydride	1.729
		PTSA	0.014
		PDC	1.441
		Toluene for flushing	1.441
		ACP	1.335
		Acetic anhydride	0.288
		CPDO	1.787
		Acetic acid	0.126
		CPHP	1.477
		Acetone	15.591
		Triethylamine	1.309
		DMAP	0.135
		Zopiclone crude	2.068
		Acetonitrile	43.891
		Methanol	25.259

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT.
(PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

a) Water:					
Parameters	Qty. of pollutants discharged (Mass / day)		Conc. of pollutants discharged (Conc./ Vol)		Percentage of variation from prescribed standards with reason
	Standard (kg/day),except for pH	Status (kg/day),except for pH	Standard (mg/L),except for pH	Status (mg/L),except for pH	
Trade Effluent					No Variations, all parameters are within the prescribed standards. (Please refer Annexure -1A)
pH	–	–	6.5 to 8.5	7.12	
SS	110	NIL	100	NIL	
BOD	33	4.24	30	6.00	

COD	275	13.48	250	19.07	<i>Pollutants are not being discharged and are being recycled in RO plant, MVRE plant and MEE Plant (ZLD Facility) to recover good quality water for reuse.</i>
Oil & Grease	11	NIL	10	NIL	
Flow	1100 m3/day	707 m3/day	–	–	
Domestic Effluent					No Variations, all parameters are within the prescribed standards. (Please refer Annexure -1B)
pH	–	–	5.5 to 9.0	7.18	
SS	14	5.05	100	43.17	
BOD	4.2	2.22	30	19	
COD	35	19.19	250	164.04	
Oil & Grease	1.4	NIL	10	NIL	
Flow	140 m3/day	117 m3/day	–	–	

(b) AIR :

STACK EMISSION (2023-2024)

For Boiler Stack No. 1 (Common Stack for Boiler No.1 &2, only one boiler operates at a time)	Standard mg/NM³	Status mg/NM³	No Variations, all parameters are within the prescribed standards. (Please refer Annexure -1C,for boilers, thermopack and incinerator)
PM	150	48.63	
SO ₂	100	28.12	
NOX	50	35.58	
For Boiler stack No. 2			
PM	150	55.16	
SO ₂	100	30.66	
NOX	50	37.21	
For Boiler stack No. 3			
PM	150	49.57	
SO ₂	100	27.67	
NOX	50	36.75	
For Boiler stack No. 4			
PM	150	51.60	
SO ₂	100	27.62	
NOX	50	33.04	
For Boiler stack No. 5			
PM	150	48.48	
SO ₂	100	28.27	
NOX	50	38.24	
For Thermo pack			
PM	150	52.54	
SO ₂	100	32.02	

NOX	50	43.18	
For Incinerator			
PM	50	34.88	
NOX	400	33.18	
SO ₂	200	44.18	
AMBIENT AIR QUALITY (2023-2024)			
Near Rain water harvesting pond	Standard µg/M ³	Status µg/M ³	No Variations, all parameters are within the prescribed standards. (Please refer Annexure -1D)
PM10 (24 hrs)	100	50.05	
PM2.5 (24 hrs)	60	28.43	
SO ₂ (24 hrs)	80	18.65	
NOX(24 hrs)	80	21.64	
CO(8 hrs)	2000	180.11	
Near Incinerator Stack			
PM10 (24 hrs)	100	55.75	
PM2.5 (24 hrs)	60	30.51	
SO ₂ (24 hrs)	80	19.74	
NOX(24 hrs)	80	22.93	
CO(8 hrs)	2000	287.00	
Near Main Gate(GATE No. 2)			
PM10 (24 hrs)	100	44.65	
PM2.5 (24 hrs)	60	30.71	
SO ₂ (24 hrs)	80	18.01	
NOX(24 hrs)	80	21.87	
CO(8 hrs)	2000	194.59	
Near Gate No. 04			
PM10 (24 hrs)	100	45.30	
PM2.5 (24 hrs)	60	26.23	
SO ₂ (24 hrs)	80	18.77	
NOX(24 hrs)	80	22.62	
CO(8 hrs)	2000	199.36	

Note: µg = Microgram

PART -D
Hazardous Wastes
(Hazardous & Other Waste (Management & Trans-boundary Movement) Rules, 2018)
Period April-2023 to March-2024

S. No.	Type of waste	Waste Cat. No.	Stock from Year 2022-2023	Total Received / Generated Year 2023-2024	Total Disposed 2023-2024	Stock from Year 2023-2024	Storage/treatment / Disposal
1	Used Spent oil	I-5.1	0.961	1.644	1.420	1.185	Disposed to authorized Re-processors/Recycler registered with SPCB. (Last Year Stock Quantity 0.961 MT is added) .
2	Process Residue and wastes	I-28.1	9.367	778.038	771.917	15.488	Collect in drums, mixed with other wastes and Incinerated / Hazardous Waste disposed to Green Gene Enviro Protection & Infrastructure Pvt. Ltd. Chitorgarh (Rajasthan)and Hazargo Industries Pvt Ltd, Pithampur,Dist Dhar (MP)
3	Spent Carbon	I-28.3	8.629	501.712	500.055	10.286	Collect in drums, mixed with other wastes and Incinerated / Hazardous Waste disposed to Green Gene Enviro Protection & Infrastructure Pvt. Ltd. Chitorgarh (Rajasthan) and Hazargo Industries Pvt Ltd, Pithampur,Dist Dhar (MP))
4	Date-expired products	I-28.5	0.000	14.577	14.577	0.000	Collect in drums, mixed with other wastes and Incinerated in in-house Incineration.
5	Off specification Product	I-28.4	0.000	6.490	6.490	0.000	Collect in drums, mixed with other wastes and Incinerated in in-house Incineration.
6	Contaminated cotton rags or other cleaning materials	I-33.2	0.000	0.132	0.132	0.000	Collect in drums, mixed with other wastes and Incinerated in in-house Incineration.
7	Chemical-Containing Residue From Decontamination And Disposal	I-34.1	0.000	0.000	0.000	0.000	No Generation.
8	Exhaust Air or Flue gas cleaning residue	I-35.1	0.000	0.000	0.000	0.000	No Generation.
9	Oil and grease skimming Residues	I-35.4	0.000	0.000	0.000	0.000	No Generation.
10	Spent Carbon or Filter Medium	I-36.2	0.000	0.000	0.000	0.000	No Generation.
11	Spent Solvent	I-28.6	26.150	2455.874	2435.540	46.484	Disposed to authorized Re-processors/Recycler registered with PCB.

12	Empty Barrels/Containers / Liners contaminated with Hazardous Wastes/Chemicals	I-33.1	0.730	11.991	12.080	0.641	Clean and cut and sale to authorized party
13	Any Process or Distillation Residues	I-36.1	1.870	401.200	400.870	2.200	Collect in drums, mixed with other wastes and Incinerated / Sent for disposal to Green Gene Enviro Protection & Infrastructure Pvt. Ltd. Chitorgarh (Rajasthan)
14	Chemical Sludge From Waste Water Treatment	I-35.3	88.540	5153.381	4979.750	262.171	Wet sludge is received from Belt Press/ Decanter/ drying beds of ETP and is collected in HDPE bags. This waste is sent for disposal to CTSDF site of MP Waste management Project, Pithampur and Green Gene Enviro Protection & Infrastructure Pvt. Ltd. Chitorgarh (Rajasthan) Hazargo Industries Pvt Ltd, Pithampur,Dist Dhar (MP))
15	Chemical Sludge From Waste Water Treatment Plant(MEE- Salt)	I-35.4	0.000	2255.391	1960.480	294.911	MEE Salt is received from ATFD and is collected in HDPE bags. This waste is sent for disposal to CTSDF site of MP Waste management Project, Pithampur and Green Gene Enviro Protection & Infrastructure Pvt. Ltd. Chitorgarh (Rajasthan) Hazargo Industries Pvt Ltd, Pithampur,Dist Dhar (MP))
16	Ash From Incineration Of Hazardous Waste, Flue Gas Cleaning Residues	I-37.2	0.342	18.845	19.110	0.077	Collect in drum and then from drums in to HDPE bags and stored at Hazardous waste storage shed and finally disposed to CTSDF site of MP Waste management Project, Pithampur
17	Spent ion exchange resin containing toxic chemicals	I-35.2	0.000	3.312	3.312	0.000	Collect in HDPE Bags and stored at Hazardous Waste Storage Shed and finally disposed to CTSDF site of MP Waste management Project, Pithampur
18	Spent Catalyst	I-28.2	0.135	19.075	16.343	2.867	Disposed to authorized Re-processors/Recycler registered with PCB.
19	Corrosive (Spent Acid/Caustic Acid)	II-C2	0.000	0.000	0.000	0.000	No Generation
Total			136.724	11621.662	11122.0760	636.31	

PART – E

**Solid Waste
Period April-2023 to March-2024**

S. No.	Description of Solid Waste	Unit	Qty MT/M (As per Consent)	Qty MT/Year (At Actual)
1	Aluminum Foil	MT	15	3.980
2	Blister Cutting / PVC Cutting	MT	70	30.380
3	Glass Waste	MT	120	112.230
4	Corrugated Box	MT	150	169.413
5	Fiber Drum	MT	80	28.070
6	Filter Cloth	MT	50	55.280
7	Garbage	MT	200	220.810
8	HDPE Bags/ HDPE Scrap	MT	85	80.440
9	MS Scrap (Old used MS Drums)	MT	100	14.630
10	Plastic / PVC Scrap	MT	50	175.950
11	Polythene Mix Class	MT	75	78.310
12	Plastic Liners (old used PVC drums/carboy)	MT	50	9.420
13	Rubber Pipes / PVC Pipes	MT	18	7.490
14	Waste Paper	MT	130	123.090
15	Wooden Scrap	MT	70	34.650
16	Metal Scrap (Aluminum, Steel, Copper, GI, Iron etc)	MT	1015	806.312
17	Coal Ash	MT	4000	6436.940
18	Canteen Waste	MT	75.00	59.982

PART - F

Please specify the characterization (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- i) Copy of analytical report of the composite Hazardous waste is enclosed in **Annexure No -2**.
- ii) Qty. of Hazardous waste generated = 11621.662 MT (Year 2023-2024)
- iii) All above waste generated from manufacturing process & Pollution control facilities are either incinerated in our Incinerator (Thermax Make) or disposed to TSDF/ Co-Processing in Cement Kilns/ Pre-Processing /Recycler . Records are maintained in Form 3 and reports are being sent to Pollution Control Board as per Board guidelines.

PART - G

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

- A) ETP running cost including Power, Chemical, and Maintenance & Staff salary is approximately Rs. 27.83 lacs per month thus annual cost of ETP Operation is around Rs. 333.84 Lacs.
- B) Reverse Osmosis (R.O.) Plant operation cost approximately Rs 280.8 Lacs per annum.
- C) Operation cost of Multi effect thermal evaporator along with stripper and ATFD is 318.4 Lacs per annum.
- D) Maintenance and Plantation of approximate 2400 Nos. of new plant of different spices of amount Rs. 5.278 Lacs.
- E) Incineration cost of Hazardous waste and disposal of Hazardous waste is approx. Rs. 22.01 Lacs per annum.
- F) Waste heat recovery system operated in the Incinerator and utilized waste heat is used to generate hot water for Boiler.
- G) ETP Treated effluent is recycled through Plate Tube Type RO system.
- H) Multiple Effect Evaporator along with stripper and ATFD for RO Reject and high COD/ High TDS effluent are operated and dried Salt/sludge collected, are sent to TSDF.
- I) Solvent Conservation Measures implemented across the site.
- J) Maintenance of Ground Water Recharging system done to facilitate more recharge into ground to enhance the water level.
- K) Hot Water generation system by solar energy for heating the Boiler feed water is provided.
- L) Installed Bag filter in all Stack of Boiler to Control emissions.
- M) Installed Dust separation system in Boiler and incinerator Plant.
- N) Canteen Waste composting machine for converting leftover food waste and vegetable waste into manure is installed and operational.
- O) Online effluent quality monitoring system connected online with CPCB server for continuous monitoring of quality of outlet water
- P) Installed Online Stack Emission monitoring System for incinerator and is operational.
- Q) 1352.670 MT Hazardous Waste is sent to Green Gene Enviro Protection & Infrastructure Pvt Ltd, Hazargo Industries Industrial area Pithampur /Other authorised vendors for Pre-processing.
- R) 2435.540 MT Spent Solvent is sent to Authorized Recycler.
- S) 6915.830 MT Hazardous Waste is sent to TSDF Site for Land filling.
- T) 388.193 MT Hazardous Waste incinerated through In house Incineration.

PART - H

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

- Overhead Effluent transfer project with complete automation.
- Upkeep and maintenance/repair of Storm Water drains at site.
- Construction of new closed RCC Storm Water drain up to outlet.
- Monitoring of Scrubbers at site by third party for emissions.
- Repair and maintenance of existing rain water recharging structures at site.
- Disposal of spent solvents to authorized Recyclers for recovery and reuse.
- Installation of Sludge Dryer for reduction of Sludge Qty.
- Installation of Heat Pump at RO Plant.
- Installation of DAF System for increase of RO Recovery.
- Installation of Water Saving Nozzle.
- Installation of MVC plant.
- Installation volute spray sludge de-watering system for sludge moisture reduction.
- Installation of Fine Bubble Air diffusers in Aeration tank of ETP plant.

PART - I

Any other particulars for improving the quality of the environment

- Zero Liquid Discharge(ZLD) conditions being maintained at site by efficient operation of ETP/ DAF/ RO/ MVRE (Mechanical Vapor Re-compressor Evaporator) / MEE (Multi Effect Evaporator) and ATFD (Agitated Thin Film Dryer).
- Solvent Recovery is being done through dedicated distillation columns.
- Hazardous Waste for disposal to Green Gene Enviro Protection & Infrastructure Pvt Ltd for Pre-processing to be continued.
- Campaigns on Water Optimization at site initiated to enhance overall awareness of the manpower.
- Monthly Monitoring of Scrubbers inside the premises being carried out.
- Awareness campaigns on waste reduction and segregation at source initiated at site.
- Energy conservation implementation and sustained at site. (Example LED Light, Solar power utilization for pumps and lights).

**Details of Annexures for Environmental Statement Report
Submission (April 2023-March 2024)**

S. No.	Annexure No.	Description
1	Annexure No.1A	Third Party Report of RO Outlet
2	Annexure No.1B	Third Party Report of STP Outlet
3	Annexure No.1C	Third Party Report of Boilers, Thermopac and Incinerator
4	Annexure No.1D	Third Party Reports of Ambient Air Quality

Annexure-1A

Ipca Laboratories Limited, Ratlam

RO Outlet Analysis Report (APR.2023-Mar.2024)

Parameters	MPPCB Standards Norms	UOM	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Min.	Max.	AVG.
pH	6.5 to 8.5	-	6.79	7.58	7.28	6.78	6.59	7.58	7.62	7.64	7.59	6.71	6.75	6.55	6.55	7.64	7.12
TSS	100	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
COD	250	mg/l	23.71	16.14	12.43	20.42	16	18	20	25.18	23.23	16.56	16.38	20.76	12.43	25.18	19.07
BOD	30	mg/l	7	5	5	7	5	6	6	7	6	5	6	7	5.00	7.00	6.00
Oil & Grease	10	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Note:- Except pH all results are in ppm
* Sample Point - RO Permeate



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 ▶ City Office: 3/26, Vijay Nagar, Opp. Sayaji Hotel, Indore (M.P.) India, Tel No.: 0731-4088173
 ▶ Lab Contact No.: 90098 89316, 98270 08819, 7089333892, 7292299431, 7292299432
 ▶ Email: info@azislabs.com, j.dingwani@azislabs.com, Visit: www.azislabs.in

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : AL/FM/51A

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejavia Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : WAT-17240/2023 - 2024

Booking Date : 15/03/2024

TRF Ref. No. : NA

TRF Date : NA

MFG. LIC. NO. : NA

Issue Date : 27/03/2024

Sample Name : RO Outlet Water

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By. : Azis Labs

Sample Quantity : 1 x 10 ltr approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 14/03/2024 12:20

Packing : Plastic Bottle

Packing Type : Unsealed

Analysis Start Date : 15/03/2024

Analysis End Date : 27/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1.	pH	----	6.55	6.5-8.5	IS : 3025 (Part-11) 1963 RA 2006
2.	Total Dissolve Solids	mg/l	136	Max 2100	IS : 3025 (Part-16) 1984 RA 2006
3.	Total Suspended Solids	mg/l	Nil	Max 100	IS : 3025 (Part-17) 1984 RA 2006
4.	Chemical Oxygen Demand	mg/l	20.76	Max 250	APHA 5220 B (23rd Edition) 2017
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	7	Max 30	IS : 3025 (Part-44) 1993
6.	Oil & Grease	mg/l	Nil	Max 10	APHA 5220 B (23rd Edition) 2017
7.	Chloride	mg/l	92.94	Max 1000	IS : 3025 (Part-32) 1988 RA 2000
8.	Benzene	mg/l	Not Detected	Max 0.1	APHA 5220 B (23rd Edition) 2017
9.	Xylene	mg/l	Not Detected	Max 0.12	APHA 5220 B (23rd Edition) 2017
10.	Methylene Chloride	mg/l	Not Detected	Max 0.9	APHA 5220 B (23rd Edition) 2017

Remarks :

Note :

- The legal liabilities limited up to the analytical charges only
- The results are related only to the sample tested
- This reports shall not be reproduced without the written approval of Azis Labs
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- MOEF Recognized environment Laboratory valid up to 05/06/2025 (LB/99/7/2021)
- NABL Accredited Lab (ISO /IEC 17025 : 2017) Valid until 05/06/2025

Checked by

Person In-charge Testing

- ▶ Industrial & Environmental Pollution, *Water & Effluent Water Testing, Drugs & Pharmaceutical, Biological/Microbiological Testing Services.
- ▶ *Food & Agriculture Products Testing, *Method Development & Validation (Pharma, Food & Environment).
- ▶ *APi Product (Process Development & Research), GMP/GLP Solution for Pharma / Food Industry



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 ► **Lab Contact No.:** 96698 89316, 98270 08819, 7089333892, 7292299431, 7292299432
 ► **Email:** info@azislabs.com, j.dingwani@azislabs.com, **Visit:** www.azislabs.in

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : AL/FM/51A

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejvta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : WAT-17240/2023 - 2024

Booking Date : 15/03/2024

TRF Ref. No. : NA

TRF Date : NA

MFG. LIC. NO. : NA

Issue Date : 27/03/2024

Sample Name : RO Outlet Water

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By. : Azis Labs

Sample Quantity : 1 x 10 ltr approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 14/03/2024 12:20

Packing : Plastic Bottle

Packing Type : Unsealed

Analysis Start Date : 15/03/2024

Analysis End Date : 27/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
11	Chlorobenzene	mg/l	Not Detected	Max. 0.2	APHA 5220 B (23rd Edition) 2017
12	Phosphates	mg/l	Not Detected	Max. 5.0	APHA 5220 B (23rd Edition) 2017
13	Sulphide	mg/l	Nil	Max. 2.0	IS : 3025 (Part-29) 1986
14	Phenolic Compound	mg/l	Not Detected	Max. 1.0	IS : 3025 (Part-43) 1992
15	Zinc	mg/l	Not Detected	Max. 5.0	IS : 3025 (Part-49) 1994
16	Copper	mg/l	Not Detected	Max. 3.0	IS : 3025 (Part-42) 1992
17	Total Chromium	mg/l	Not Detected	Max. 2.0	IS : 3025 (Part-52) 2003
18	Hexavalent Chromium	mg/l	Not Detected	Max. 0.1	IS : 3025 (Part-52) 2003
19	Cyanide	mg/l	Not Detected	Max. 0.1	IS : 3025 (Part-27) 1986
20	Arsenic	mg/l	Not Detected	Max. 0.2	IS : 3025 (Part-37) 1986
21	Mercury	mg/l	Not Detected	Max. 0.01	IS : 3025 (Part-48) 1994
22	Lead	mg/l	Not Detected	Max. 0.1	IS : 3025 (Part-47) 1994
23	Bio Assay Test	%	100 % Survival of fish after first 96 hours in 100% RO Outlet Water ***End of Report***	90 % Survival of fish after first 96 hours in 100% effluent	IS : 6582 - 2003

Remarks :

Note :

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Checked by

Person in-charge Testing

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 ► *Food & Agriculture Products Testing, *Method Development & Validation (Pharma, Food & Environment).
 ► *API Product (Process Development & Research), GMP/GLP Solution for Pharma / Food Industry

Annexure-1B

Ipca Laboratories Limited, Ratlam

STP Outlet Analysis Report (APR.2023-Mar.2024)

Parameters	MPPCB Standards Norms	UOM	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Min.	Max.	Avg.
pH	5.5 to 9.0	-	7.21	7.12	7.19	7.1	7.18	7.47	7.52	7.22	7.25	7	7.2	6.8	6.80	7.52	7.19
TSS	100	mg/l	24	36	39	33	35	44	46	28	32	56	59	86	24.00	86.00	43.17
COD	250	mg/l	221.31	201.8	203.06	122.52	126.98	130.8	128.38	193.02	185.86	240.12	139.26	75.32	75.32	240.12	164.04
BOD	30	mg/l	20	23	22	16	18	16	15	20	21	23	22	12	12.00	23.00	19.00
Oil & Grease	10	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Note:- Except pH all results are in ppm
 † Sample Point - STP Outlet



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Test Report

Format No. : ALJFM/51A

Report issued to
 IPCA LABORATORIES LIMITED, (RATLAM)
 Sejanta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. WAT-17243/2023 - 2024
 Booking Date 15/03/2024
 TRF Ref. No. NA
 TRF Date NA
 MFG. LIC. NO. NA
 Issue Date 27/03/2024

Sample Name : STP Outlet Water

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By : Azis Labs

Sample Quantity : 1 x 1 ltr. approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 14/03/2024 12:10

Packing : Plastic Bottle

Packing Type : Unsealed

Analysis Start Date : 15/03/2024

Analysis End Date : 27/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	pH	----	6.80	5.5 - 9.0	IS: 3025 (Part-11) 1983 RA 2008
2	Total Dissolve Solids	mg/l	1572	Max.2100	IS: 3025 (Part-16) 1984 RA2006
3	Total Suspended Solids	mg/l	80	Max.100	IS: 3025 (Part-17) 1984 RA2006
4	Chemical Oxygen Demand	mg/l	75.32	Max.250	APHA 5220 B (23rd Edition) 2017
5	Biochemical Oxygen Demand(3 days at 27°C)	mg/l	12	Max.30	IS: 3025 (Part-44) 1983
6	Oil & Grease	mg/l	Nil	Max.10	APHA 5220 B (23rd Edition) 2017
7	Chloride	mg/l	625.19	Max.1000	IS: 3025 (Part-32) 1988 RA 2000
8	Total Ammonia	mg/l	4.75	NA	IS: 3025 (Part-34) 1988
9	Po4	mg/l	2.9	NA	IS: 3025 (Part-31) 1988
End of Report					

Remarks :

Note :

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- Industrial & Environmental Pollution, *Water & Effluent Water Testing, Drugs & Pharmaceutical, Biological/Microbiological Testing Services.
- * Food & Agriculture Products Testing, *Method Development & Validation (Pharma, Food & Environment).
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 ► Email : info@azislabs.com, j.dingwani@azislabs.com, Visit : www.azislabs.in

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Test Report

Format No. : AL/FM/51A

Report issued to

IPGA LABORATORIES LIMITED, (RATLAM)
 Sejwa Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : MICR-17244/2023 - 2024

Booking Date : 16/03/2024

TRF Ref. No. : NA

TRF Date : NA

MFG. LIC. NO. : NA

Issue Date : 19/03/2024

Sample Name : STP Outlet Water

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By. : Azis Labs

Sample Quantity : 1 x 1 ltr. approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 14/03/2024 12:10

Packing : Plastic Bottle

Packing Type : Unsealed

Analysis Start Date : 16/03/2024

Analysis End Date : 19/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Faecal Coliform	MPN/100 ml	260 ***End of Report***	NMT 1000	IS:1622-1981

Remarks :

Note :

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Annexure-1C

Ipcra Laboratories Limited, Ratlam

Stack Emission (Boiler, Thermopack & Incinerator) Record 2023-24

Location	Parameters	UOM	MPPCB Standards	May-23	Aug-23	Nov-23	Feb-24	Max.	Min.	Avg.
Boiler No. - 1 & 2 (Stack No.1)	PM	(mg/Nm ³)	150	47.12	46.24	48.35	52.79	52.79	46.24	48.63
	SO ₂	(mg/Nm ³)	100	23.44	30.06	30.56	28.43	30.56	23.44	28.12
	NOX	(mg/Nm ³)	50	29.47	35.74	35.86	41.23	41.23	29.47	35.58
Boiler No. - 3 (Stack No.2)	PM	(mg/Nm ³)	150	48.75	52.35	56.81	62.71	62.71	48.75	55.16
	SO ₂	(mg/Nm ³)	100	28.76	28.12	31.2	34.56	34.56	28.12	30.66
	NOX	(mg/Nm ³)	50	35.58	37.18	37.45	38.63	38.63	35.58	37.21
Boiler No. - 4 (Stack No.3)	PM	(mg/Nm ³)	150	46.73	43.84	50.28	57.42	57.4	43.8	49.57
	SO ₂	(mg/Nm ³)	100	26.62	29.28	30.14	24.65	30.1	24.7	27.67
	NOX	(mg/Nm ³)	50	36.54	34.58	36.33	39.53	39.5	34.6	36.75
Boiler No. - 5 (Stack No.4)	PM	(mg/Nm ³)	150	43.73	47.27	51.16	64.23	64.2	43.7	51.60
	SO ₂	(mg/Nm ³)	100	24.78	26.16	29.98	29.57	30.0	24.8	27.62
	NOX	(mg/Nm ³)	50	29.58	32.56	32.16	37.84	37.8	29.6	33.04
Boiler No. - 6 (Stack No.5)	PM	(mg/Nm ³)	150	44.85	46.24	49.54	53.29	53.3	44.9	48.48
	SO ₂	(mg/Nm ³)	100	22.71	30.06	27.54	32.78	32.8	22.7	28.27
	NOX	(mg/Nm ³)	50	34.72	35.74	39.42	43.08	43.1	34.7	38.24
Thermopack	PM	(mg/Nm ³)	150	48.36	49.8	52.77	59.21	59.2	48.4	52.54
	SO ₂	(mg/Nm ³)	100	28.13	33.88	34.6	31.47	34.6	28.1	32.02
	NOX	(mg/Nm ³)	50	41.79	41.62	46.16	43.16	46.2	41.6	43.18
Incinerator	PM	(mg/Nm ³)	50	38.88	35.41	30.54	34.69	38.9	30.5	34.88
	NOX	(mg/Nm ³)	400	48.64	29.26	28.32	26.51	48.6	26.5	33.18
	SO ₂	(mg/Nm ³)	200	36.43	41.33	46.82	52.13	52.1	36.4	44.18



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Test Report

Format No. : AL/FM/51D

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejawa Ratlam

RATLAM (M.P.) - 467002 MADHYA PRADESH

A.R No. : AIR-16425/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Stack Air Monitoring - Boiler No.1 - 2 Stack No.1(6TPH)
 Sampling Date&Time : 20/02/2024 10:50
 Sampling Duration : 60 Min
 Sampling By : Azis Labs
 Wind Direction : From South West
 Stack Height : 30 Meter
 Stack Attached To : Boiler
 Location : Boiler No.1 - 2 Stack No.1(6TPH)
 Ambient Temp. : 27°C
 Humidity : 49%
 Fuel : F.O/Pet Coke
 Flue gas Velocity : 6.54 M/Sec
 Flue gas Temperature : 92°C
 Diameter : —
 Analysis Start Date : 21/02/2024
 Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (PM)	mg/Nm ³	52.79	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	28.43	Max. 100	IS : 11255 (Part-2) 1985
3	Oxides of Nitrogen (NO ₂)	mg/Nm ³	41.23	Max. 50	IS : 11255 (Part-7) 2005 RA 2003
4	Carbon Monoxide(CO)	mg/Nm ³	11.37	---	IS : 13270-1992
End of Report					

Remarks :

Note :

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 Sejavta Ratlam

 RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AIR-16426/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Stack Air Monitoring - Boiler No. 3 Stack No. 3(6TPH)	Stack Attached To: Boiler	Flue gas Velocity : 6.79 M/Sec
Sampling Date&Time : 20/02/2024 12:05	Location : Boiler No. 3 Stack No. 2(6TPH)	Flue gas Temperature : 114°C
Sampling Duration : 60 Min.	Ambient Temp. : 27°C	Diameter : ---
Sampling By : Azis Labs	Humidity : 49%	Analysis Start Date : 21/02/2024
Wind Direction : From South West	Fuel : Coal	Analysis End Date : 27/02/2024
Stack Height : 30 Meter		

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (PM)	mg/Nm ³	62.71	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	34.56	Max. 100	IS : 11255 (Part-2) 1985
3	Oxides of Nitrogen (NO ₂)	mg/Nm ³	38.63	Max. 50	IS : 11255 (Part-7) 2005 RA 2003
4	Carbon Monoxide(CO)	mg/Nm ³	15.57	----	IS : 13270-1992
End of Report					

Remarks :

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 RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AIR-16427/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name	: Stack Air Monitoring - Boiler No.4 Stack No.4(8TPH)	Stack Attached To	: Boiler	Flue gas Velocity	: 6.87 M/Sec
Sampling Date&Time	: 20/02/2024 12:30	Location	: Boiler No.4 Stack No.4(8TPH)	Flue gas Temperature	: 104°C
Sampling Duration	: 60 Min.	Ambient Temp.	: 27°C	Diameter	: ---
Sampling By	: Azis Labs	Humidity	: 49%	Analysis Start Date	: 21/02/2024
Wind Direction	: From South West	Fuel	: Coal	Analysis End Date	: 27/02/2024
Stack Height	: 30 Meter				

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (PM)	mg/Nm ³	57.42	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	24.65	Max. 100	IS : 11255 (Part-2) 1985
3	Oxides of Nitrogen (NO ₂)	mg/Nm ³	39.53	Max. 50	IS : 11255 (Part-7) 2005 RA 2003
4	Carbon Monoxide(CO)	mg/Nm ³	12.67	-----	IS : 13270-1992
			End of Report		

Remarks :

Note :

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Test Report

Format No. : AL/FM/51D

Report issued to

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RATLAM (M.P.) - 467002 MADHYA PRADESH

A.R No. : AIR-16428/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Stack Air Monitoring - Boiler No.5 Stack No.4(BTPH)	Stack Attached To : Boiler	Flue gas Velocity : 6.89 M/Sec
Sampling Date&Time : 20/02/2024 - 14:02	Location : Boiler No.5 Stack No.4(BTPH)	Flue gas Temperature : 96°C
Sampling Duration : 60 Min.	Ambient Temp. : 27°C	Diameter : ---
Sampling By : Azis Labs	Humidity : 49%	Analysis Start Date : 21/02/2024
Wind Direction : From South West	Fuel : Coal	Analysis End Date : 27/02/2024
Stack Height : 30 Meter		

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (PM)	mg/Nm ³	64.23	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	29.57	Max. 100	IS : 11255 (Part-2) 1985
3	Oxides of Nitrogen (NO ₂)	mg/Nm ³	37.84	Max. 50	IS : 11255 (Part-7) 2005 RA 2003
4	Carbon Monoxide(CO)	mg/Nm ³	16.08	---	IS : 13270-1992
End of Report					

Remarks :

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Test Report

Format No. : ALFM/51D

Report issued to

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RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. AIR-16429/2023 - 2024
 Booking Date 21/02/2024
 TRF Ref. No. NA
 TRF Date NA
 MFG. LIC. NO. NA
 Issue Date 27/02/2024

Sample Name : Stack Air Monitoring - Boiler No.6 Stack No.5(8TPH)	Stack Attached To: Boiler	Flue gas Velocity : 6.54 M/Sec
Sampling Date&Time : 20/02/2024 14:10	Location : Boiler No.6 Stack No.5(8TPH)	Flue gas Temperature : 109°C
Sampling Duration : 60 Min.	Ambient Temp. : 27°C	Diameter : ---
Sampling By : Azis Labs	Humidity : 49%	Analysis Start Date : 21/02/2024
Wind Direction : From South West	Fuel : Coal	Analysis End Date : 27/02/2024
Stack Height : 30 Meter		

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (PM)	mg/Nm ³	53.29	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	32.78	Max. 100	IS : 11255 (Part-2) 1985
3	Oxides of Nitrogen (NO ₂)	mg/Nm ³	43.08	Max 50	IS : 11255 (Part-7) 2005 RA 2003
4	Carbon Monoxide(CO)	mg/Nm ³	10.84	---	IS : 13270-1992
			End of Report		

Remarks :

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Person in-charge Testing



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Test Report

Format No.: ALJFM/51D

Report Issued to:

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejavta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R. No.: AIR-16416/2023 - 2024

Booking Date: 21/02/2024

TRF Ref. No.: NA

TRF Date: NA

MFG. LIC. NO.: NA

Issue Date: 27/02/2024

Sample Name: Stack Air Monitoring - Incinerator Stack

Sampling Date&Time: 19/02/2024 14:40

Stack Attached To: Incinerator

Flue gas Velocity: 6.92 M/Sec

Sampling Duration: 30 Min.

Location: Incinerator

Flue gas Temperature: 76°C

Sampling By: Azis Labs

Ambient Temp.: 27°C

Diameter: 0.78 Meter

Wind Direction: From South West

Humidity: 49%

Analysis Start Date: 21/02/2024

Stack Height: 30 Meter

Fuel: Diesel

Analysis End Date: 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1.	Particulate Matter (PM)	mg/Nm ³	34.69	Max. 50	IS: 11255 (Part-1) 1985 RA 2003
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	26.51	---	IS: 11255 (Part-2) 1985
3.	Oxides of Nitrogen (NO ₂)	mg/Nm ³	52.13	Max. 300	IS: 11255 (Part-7) 2005 RA 2003
4.	Carbon Monoxide(CO)	mg/Nm ³	16.24	Max 150	IS: 13270-1992
5.	HCL	mg/Nm ³	11.37	Max 50	Guideline Based on CPCB
6.	VOC in Ash	mg/Nm ³	8.42	Max 20	Guideline Based on CPCB
7.	TOC	mg/Nm ³	12.59	Max 20	Guideline Based on CPCB
8.	HF	mg/Nm ³	0.83	---	Guideline Based on CPCB
9.	Dioxin & Furans	ngTEQ/Nm ³	0.07	Max 0.1	Guideline Based on CPCB
10.	Cadmium as Cd	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB
11.	Thorine as Th	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB
12.	Mercury as Hg	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB
13.	Antimony as Sb	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB

Remarks:

Note:

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Test Report

Format No. : AL/FM/51D

Report Issued to
 IPCA LABORATORIES LIMITED, (RATLAM)
 Sejavta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AIR-16416/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Stack Air Monitoring - Incinerator Stack	Stack Attached To : Incinerator	Flue gas Velocity : 6.92 M/Sec
Sampling Date&Time : 19/02/2024 14:40	Location : Incinerator	Flue gas Temperature : 76°C
Sampling Duration : 30 Min.	Ambient Temp. : 27°C	Diameter : 0.78 Meter
Sampling By : Azis Labs	Humidity : 49%	Analysis Start Date : 21/02/2024
Wind Direction : From South West	Fuel : Diesel	Analysis End Date : 27/02/2024
Stack Height : 30 Meter		

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
14.	Arsenic as As	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB
15.	Lead as Pb	mg/Nm ³	0.34	Max 1.5	Guideline Based on CPCB
16.	Copper as Cu	mg/Nm ³	0.05	Max 1.5	Guideline Based on CPCB
17.	Manganese as Mg	mg/Nm ³	0.19	Max 1.5	Guideline Based on CPCB
18.	Nickel as Ni	mg/Nm ³	0.15	Max 1.5	Guideline Based on CPCB
19.	Vanadium as V	mg/Nm ³	Below Detection Limit	Max 1.5	Guideline Based on CPCB
20.	Cobalt as Co	mg/Nm ³	Below Detection Limit ***End of Report***	Max 1.5	Guideline Based on CPCB

Remarks :

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 ► Lab Contact No.: 96698 89318, 98270 08819, 7089333892, 7292299431, 7292299432
 ► Email: info@azislabs.com, dingwank@azislabs.com, Visit: www.azislabs.in

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : AL/FM/51D

Report Issued to
 IPCA LABORATORIES LIMITED, (RATLAM)
 Sejavta Ratlam
 RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AIR-16430/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Stack Air Monitoring	Stack Attached To : Thermopack - 4 lakh Kca	Flue gas Velocity : 6.24 M/Sec
Sampling Date&Time : 20/02/2024 - 15:15	Location : Thermopack - 4 lakh Kcal	Flue gas Temperature : 93°C
Sampling Duration : 60 Min.	Ambient Temp. : 27°C	Diameter : ---
Sampling By : Azis Labs	Humidity : 49%	Analysis Start Date : 21/02/2024
Wind Direction : From South West	Fuel : L.D.O	Analysis End Date : 27/02/2024
Stack Height : 23 Meter		

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1.	Particulate Matter (PM)	mg/Nm ³	59.21	Max. 150	IS : 11255 (Part-1) 1985 RA 2003
2.	Sulphur Dioxide (SO ₂)	mg/Nm ³	31.47	Max. 100	IS : 11255 (Part-2) 1985
3.	Oxides of Nitrogen (NO ₂)	mg/Nm ³	43.16	Max 50	IS : 11255 (Part-7) 2005 RA 2003
4.	Carbon Monoxide(CO)	mg/Nm ³	12.74	----	IS : 13270-1992
End of Report					

Remarks :

Note :

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Annexure-1D

Ipca Laboratories Limited, Ratlam

Ambient Air Monitoring Record 2023-24

Location	Parameters	UOM	MPPCB Standards	May-23	Aug-23	Nov-23	Feb-24	Max.	Min.	Avg.
Near Harvesting Pond	PM10	µg/m ³	100	54.47	44.78	51.72	49.24	54.5	44.8	50.05
	PM2.5	µg/m ³	60	28.33	25.41	31.25	28.72	31.3	25.4	28.43
	SO ₂	µg/m ³	80	18.64	19.37	19.37	17.23	19.4	17.2	18.65
	NOX	µg/m ³	80	20.83	22.48	20.7	22.54	22.5	20.7	21.64
Near Incinerator	CO	µg/m ³	2000	141.74	202.73	183.34	192.62	202.7	141.7	180.11
	PM10	µg/m ³	100	62.47	51.68	52.63	56.21	62.5	51.7	55.75
	PM2.5	µg/m ³	60	34.58	31.25	27.08	29.14	34.6	27.1	30.51
	SO ₂	µg/m ³	80	22.91	20.62	16.87	18.57	22.9	16.9	19.74
Near Main Gate	NOX	µg/m ³	80	26.08	24.77	19.56	21.29	26.1	19.6	22.93
	CO	µg/m ³	2000	515.84	236.52	191.21	204.42	515.8	191.2	287.00
	PM10	µg/m ³	100	48.59	42.89	44.32	42.78	48.6	42.8	44.65
	PM2.5	µg/m ³	60	30.41	27.08	30.83	34.52	34.5	27.1	30.71
Near Gate No. 04	SO ₂	µg/m ³	80	20.41	15.62	16.87	19.14	20.4	15.6	18.01
	NOX	µg/m ³	80	24.77	17.4	19.69	25.62	25.6	17.4	21.87
	CO	µg/m ³	2000	162.68	180.21	198.21	237.24	237.24	162.7	194.59
	PM10	µg/m ³	100	50.73	42	40.27	48.21	50.7	40.3	45.30
Near Gate No. 04	PM2.5	µg/m ³	60	32.5	16.45	27.08	28.87	32.5	16.5	26.23
	SO ₂	µg/m ³	80	20.52	18.54	17.6	18.42	20.5	17.6	18.77
	NOX	µg/m ³	80	24.77	22.1	21.84	21.78	24.8	21.8	22.62
	CO	µg/m ³	2000	173.53	191.47	245.2	187.23	245.2	173.5	199.36



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ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : AL/FM/51D

Report issued to IPCA LABORATORIES LIMITED, (RATLAM) Sejanta Ratlam RATLAM (M.P.) - 457002 MADHYA PRADESH	A.R No. : AIR-16413/2023 - 2024 Booking Date : 21/02/2024 TRF Ref. No. : NA TRF Date : NA MFG. LIC. NO. : NA Issue Date : 27/02/2024
---	---

Sample Name : Ambient Air Monitoring Sampling Date&Time : 19/02/2024 13:55 Stack Attached To : NA Flue gas Velocity : NA Sampling Duration : 24 Hrs. Location : Near Harvesting Pond Flue gas Temperature : NA Sampling By : Azis Labs Ambient Temp. : 27°C Diameter : NA Wind Direction : From South West Humidity : 49% Analysis Start Date : 21/02/2024 Stack Height : NA Fuel : NA Analysis End Date : 27/02/2024
--

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (less than 10 µm) or PM10	µg/m3	49.24	Max. 100	IS - 5182 (Part 23) 2006
2	Particulate Matter (less than 2.5 µm) or PM2.5	µg/m3	28.72	Max. 60	AZSTP/ENV/004-00 Based on Guideline by CPCB NAAQMS/36/2012-13
3	Sulphur Dioxide (SO2)	µg/m3	17.23	Max. 80	IS - 5182 (Part 2) 2001
4	Oxide of Nitrogen (NO2)	µg/m3	22.54	Max. 80	IS - 5182 (Part 8) 2006
5	Ozone(O3)	µg/m3	9.92	Max. 100	IS - 5182 (Part-09) 1974
6	Lead(Pb)	µg/m3	Below Detection Limit	Max. 1.0	IS - 5182 (Part-22) 2004
7	Ammonia(NH3)	µg/m3	16.29	Max. 400	AZSTP/ENV/006-00 Based on Guideline by CPCB NAAQMS/36/2012-13
8	Arsenic (As)	ng/m3	Below Detection Limit	Max. 06	AZSTP/ENV/009-00 Based on Guideline by CPCB NAAQMS/36/2012-13
9	Nickel	ng/m3	Below Detection Limit	Max. 20	AZSTP/ENV/011-00 Based on Guideline by CPCB NAAQMS/36/2012-13

Remarks :

Note :

1. The legal liabilities limited up to the analytical charges only.
2. The results are related only to the sample tested.
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Test Report

Format No.: AL/FM/51D

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)

Sejaya Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. AIR-16413/2023 - 2024

Booking Date 21/02/2024

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 27/02/2024

Sample Name : Ambient Air Monitoring

Sampling Date&Time : 19/02/2024 13:55

Sampling Duration : 24 Hrs.

Sampling By : Azis Labs

Wind Direction : From South West

Stack Height : NA

Stack Attached To : NA

Location : Near Harvesting Pond

Ambient Temp. : 27°C

Humidity : 49%

Fuel : NA

Flue gas Velocity : NA

Flue gas Temperature : NA

Diameter : NA

Analysis Start Date : 21/02/2024

Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10.	Carbon Monoxide(CO)	µg/m3	192.63	Max. 2000	IS : 5182(Part-10)2006
11	Benzene C6H6	µg/m3	Below Detection Limit	Max. 05	Based on CPCB Guideline Vol 1
12	Benzo(a)Pyrene Particulate	µg/m3	Below Detection Limit	Max. 01	Based on CPCB Guideline Vol 1
End of Report					

Remarks :

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Test Report

Format No. : AL/FM/51D

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejawa Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A. R No. AIR-16412/2023 - 2024

Booking Date 21/02/2024

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 27/02/2024

Sample Name : Ambient Air Monitoring

Sampling Date&Time : 19/02/2024 13:40

Sampling Duration : 24 Hrs.

Sampling By : Azis Labs

Wind Direction : From South West

Stack Height : NA

Stack Attached To : NA

Location : Near Incinerator

Ambient Temp. : 27°C

Humidity : 49%

Fuel : NA

Flue gas Velocity : NA

Flue gas Temperature : NA

Diameter : NA

Analysis Start Date : 21/02/2024

Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (less than 10 µm) or PM10	µg/m ³	56.21	Max. 100	IS : 5182 (Part 23) 2006
2	Particulate Matter (less than 2.5 µm) or PM2.5	µg/m ³	29.14	Max. 60	AZSTP/ENV/004-00 Based on Guideline by CPCB NAAQMS/36/2012-13
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.57	Max. 80	IS : 5182 (Part 2) 2001
4	Oxide of Nitrogen (NO ₂)	µg/m ³	21.29	Max. 80	IS : 5182 (Part 6) 2006
5	Ozone(O ₃)	µg/m ³	10.34	Max. 100	IS : 5182 (Part-09) 1974
6	Lead(Pb)	µg/m ³	Below Detection Limit	Max. 1.0	IS : 5182 (Part-22) 2004
7	Ammonia(NH ₃)	µg/m ³	23.12	Max. 400	AZSTP/ENV/008-00 Based on Guideline by CPCB NAAQMS/36/2012-13
8	Arsenic (As)	ng/m ³	Below Detection Limit	Max. 06	AZSTP/ENV/009-00 Based on Guideline by CPCB NAAQMS/36/2012-13
7	Nickel	ng/m ³	Below Detection Limit	Max. 20	AZSTP/ENV/011-00 Based on Guideline by CPCB NAAQMS/36/2012-13

Remarks :

Note :

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Format No. : AL/FM/51D

Test Report

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejavia Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. AIR-16412/2023 - 2024
 Booking Date 21/02/2024
 TRF Ref. No. NA
 TRF Date NA
 MFG. LIC. NO. NA
 Issue Date 27/02/2024

Sample Name : Ambient Air Monitoring

Sampling Date&Time : 19/02/2024, 13:40

Sampling Duration : 24 Hrs.

Sampling By : Azis Labs

Wind Direction : From South West

Stack Height : NA

Stack Attached To : NA

Location : Near Incinerator

Ambient Temp. : 27°C

Humidity : 49%

Fuel : NA

Flue gas Velocity : NA

Flue gas Temperature : NA

Diameter : NA

Analysis Start Date : 21/02/2024

Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10	Carbon Monoxide(CO)	ug/m3	204.42	Max. 2000	IS 5182(Part-10)2008
11	Benzene C6H6	ug/m3	Below Detection Limit	Max. 05	Based on CPCB Guideline Vol.1
12	Benzene/Pyrene Particulate	ug/m3	Below Detection Limit	Max. 01	Based on CPCB Guideline Vol.1
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Remarks :

Note :

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Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejara Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AIR-16414/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 27/02/2024

Sample Name : Ambient Air Monitoring

Sampling Date&Time : 19/02/2024 14:15

Sampling Duration : 24 Hrs

Sampling By : Azis Labs

Wind Direction : From South West

Stack Height : NA

Stack Attached To : NA

Location : Near Gate No.1

Ambient Temp. : 27°C

Humidity : 49%

Fuel : NA

Flue gas Velocity : NA

Flue gas Temperature : NA

Diameter : NA

Analysis Start Date : 21/02/2024

Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (less than 10 µm) or PM10	µg/m ³	42.78	Max. 100	IS : 5182 (Part 23) 2006
2	Particulate Matter (less than 2.5 µm) or PM2.5	µg/m ³	34.52	Max. 60	AZSTPI/ENV/004-00 Based on Guideline by CPCB NAAQMS/36/2012-13
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.14	Max. 80	IS : 5182 (Part 2) 2001
4	Oxide of Nitrogen (NO ₂)	µg/m ³	25.62	Max. 80	IS : 5182 (Part 6) 2006
5	Ozone (O ₃)	µg/m ³	9.83	Max. 100	IS : 5182 (Part-09) 1974
6	Lead (Pb)	µg/m ³	Below Detection Limit	Max. 1.0	IS : 5182 (Part-22) 2004
7	Ammonia (NH ₃)	µg/m ³	17.49	Max. 400	AZSTPI/ENV/008-00 Based on Guideline by CPCB NAAQMS/36/2012-13
8	Arsenic (As)	ng/m ³	Below Detection Limit	Max. 06	AZSTPI/ENV/009-00 Based on Guideline by CPCB NAAQMS/36/2012-13
9	Nickel	ng/m ³	Below Detection Limit	Max. 20	AZSTPI/ENV/011-00 Based on Guideline by CPCB NAAQMS/36/2012-13

Remarks :

Note :

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Test Report

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)

Sejavia Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : AJR-16414/2023 - 2024

Booking Date : 21/02/2024

TRF Ref. No. : NA

TRF Date : NA

MFG. LIC. NO. : NA

Issue Date : 27/02/2024

Sample Name : Ambient Air Monitoring

Sampling Date&Time : 19/02/2024 14:15

Sampling Duration : 24 Hrs.

Sampling By : Azis Labs

Wind Direction : From South West

Stack Height : NA

Stack Attached To : NA

Location : Near Gate No.1

Ambient Temp. : 27°C

Humidity : 49%

Fuel : NA

Flue gas Velocity : NA

Flue gas Temperature : NA

Diameter : NA

Analysis Start Date : 21/02/2024

Analysis End Date : 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10	Carbon Monoxide(CO)	µg/m3	237.24	Max. 2000	IS : 5182(Part-10)2008 Based on CPCB Guideline Vol1
11	Benzene C6H6	µg/m3	Below Detection Limit	Max. 05	
12	Benzo(a)Pyrene Particulate	µg/m3	Below Detection Limit	Max. 01	
End of Report					

Remarks :

Note :

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- The results are related only to the sample tested.
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- MOEF Recognized environment Laboratory valid up to 05/06/2025 (LB/99/7/2021)
- NABL Accredited Lab (ISO /IEC 17025 : 2017) Valid until 05/06/2025.

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ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : AL/FM/51D

Report issued to:

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejaya Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. AIR-16416/2023 - 2024

Booking Date 21/02/2024

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 27/02/2024

Sample Name Ambient Air Monitoring

Sampling Date&Time 19/02/2024 14:30

Sampling Duration 24 Hrs.

Sampling By Azis Labs

Wind Direction From South West

Stack Height NA

Stack Attached To NA

Location Near Gate No 4

Ambient Temp. 27°C

Humidity 49%

Fuel NA

Flue gas Velocity NA

Flue gas Temperature NA

Diameter NA

Analysis Start Date 21/02/2024

Analysis End Date 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Particulate Matter (less than 10 µm) or PM10	µg/m ³	48.21	Max. 100	IS : 5182 (Part 23) 2008
2	Particulate Matter (less than 2.5 µm) or PM2.5	µg/m ³	28.87	Max. 60	AZSTP/ENV/004-00 Based on Guideline by CPCB NAAQMS/36/2012-13
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.42	Max. 80	IS : 5182 (Part 2) 2001
4	Oxide of Nitrogen (NO ₂)	µg/m ³	21.78	Max. 80	IS : 5182 (Part 6) 2006
5	Ozone (O ₃)	µg/m ³	8.92	Max. 100	IS : 5182 (Part-09) 1974
6	Lead(Pb)	µg/m ³	Below Detection Limit	Max. 1.0	IS : 5182 (Part-22) 2004
7	Ammonia(NH ₃)	µg/m ³	18.67	Max. 400	AZSTP/ENV/008-00 Based on Guideline by CPCB NAAQMS/36/2012-13
8	Arsenic (As)	ng/m ³	Below Detection Limit	Max. 06	AZSTP/ENV/009-00 Based on Guideline by CPCB NAAQMS/36/2012-13
9	Nickel	ng/m ³	Below Detection Limit	Max. 20	AZSTP/ENV/011-00 Based on Guideline by CPCB NAAQMS/36/2012-13

Remarks :

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 ▶ Lab Contact No.: 96890 89916, 98270 08819, 7089333892, 7292299431, 7292299432
 ▶ Email: info@azislabs.com, j.dingwani@azislabs.com, Visit: www.azislabs.in

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Format No.: AL/FM/51D

Test Report

Report issued to:

IPCA LABORATORIES LIMITED, (RATLAM)

Sejalta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. AIR-16415/2023 - 2024

Booking Date 21/02/2024

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 27/02/2024

Sample Name: Ambient Air Monitoring

Sampling Date&Time: 19/02/2024 14:30

Sampling Duration: 24 Hrs

Sampling By: Azis Labs

Wind Direction: From South West

Stack Height: NA

Stack Attached To: NA

Location: Near Gate No.4

Ambient Temp.: 27°C

Humidity: 49%

Fuel: NA

Flue gas Velocity: NA

Flue gas Temperature: NA

Diameter: NA

Analysis Start Date: 21/02/2024

Analysis End Date: 27/02/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10.	Carbon Monoxide(CO)	ug/m3	187.23	Max. 2000	IS : 5182(Part-10)/2006 Based on CPCB Guideline Vol 1
11.	Benzene C6H6	ug/m3	Below Detection Limit	Max. 05	
12.	Benz(a)Pyrene Particulate	ug/m3	Below Detection Limit	Max. 01	
End of Report					

Remarks :

Note :

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Test Report

Format No. : AL/FM/51A

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejanta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : ENV-16443/2023 - 2024
 Booking Date : 21/02/2024
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 01/03/2024

Sample Name : Composite Waste

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By : Azis Labs

Sample Quantity : 1 x 1 kg approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : NA NA

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 21/02/2024

Analysis End Date : 01/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Arsenic as As	mg/l	Below Detection Limit	<1.0	USEPA-WS 846 Method 7061 A
2	Chromium as Cr	mg/l	Not Detected	Not Specified	USEPA-WS 846, Method 7000B, 7440-47-3
3	Lead as Pb	mg/l	Not Detected	<2.0	USEPA-WS 846, Method 7000B, 7439-92-1
4	Copper as Cu	mg/l	9.2	<10	USEPA-WS 846, Method 7000B, 7440-50-8
5	Zinc as Zn	mg/l	2.64	<10	USEPA-WS 846, Method 7000B, 7440-66-6
6	Nickel as Ni	mg/l	1.90	<3.0	USEPA-WS 846, Method 7000B, 7440-02-0
7	Calorific Value	cal/g	2338	<2500 cal/g	IS: 1350:1970
8	Mercury as Hg	mg/l	Below Detection Limit	<0.1	7.5/5, LATS/16/2002-03
9	Loss on drying at 105°C	%	23.6	Not Specified	ASTM D 2974-14

Remarks :

Note :

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 ► Email: info@azislabs.com, j.dingware@azislabs.com, Visit: www.azislabs.in

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Test Report

Format No. : ALIFM/51A

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejawa Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. ENV-16443/2023 - 2024

Booking Date 21/02/2024

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 01/03/2024

Sample Name : Composite Waste

Batch No. NA

Batch Size NA

Mfg. Name NA

Sampling By. : Azis Labs

Sample Quantity : 1 x 1 kg approx

Date of Mfg. NA

Date of Expiry NA

Sampling Date&Time : NA NA

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 21/02/2024

Analysis End Date : 01/03/2024

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10	Ash Content	%	61.2	Not Specified	ASTM D 2974-14
11	pH at 5%	---	5.72	4 to 12	USEPA-WS 846, Method 9040
12	Loss on Ignition at 550°C	%	16.3	<20%	ASTM D 2974-14
13	Nitrate	mg/kg	20.6	<30	USEPA-WS 846, Method 9210 A
14	Nitrite	mg/kg	Below Detection Limit	<0.5	USEPA-WS 846, Method 9210 A
End of Report					

Remarks :

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 * Email: mio@azislabs.com, dingwani@azislabs.com, Visit: www.azislabs.in

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Test Report

Format No. : ALJFM/51A

Report issued to
IFCA LABORATORIES LIMITED, (RATLAM)
 Sejavta Ratlam
 RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : ENV-8581/2023 - 2024
 Booking Date : 22/11/2023
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 29/11/2023

Sample Name : Composite Waste

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By : Azis Labs

Sample Quantity : 1 x 1 kg approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 21/11/2023 14:40

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 22/11/2023

Analysis End Date : 29/11/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Arsenic as As	mg/l	Below Detection Limit	<1.0	USEPA-WS 846, Method 7061 A
2	Chromium as Cr	mg/l	Not Detected	Not Specified	USEPA-WS 846, Method 7000B, 7440-47-3
3	Lead as Pb	mg/l	Not Detected	<2.0	USEPA-WS 846, Method 7000B, 7439-92-1
4	Copper as Cu	mg/l	8.9	<10	USEPA-WS 846, Method 7000B, 7440-50-8
5	Zinc as Zn	mg/l	2.75	<10	USEPA-WS 846, Method 7000B, 7440-66-6
6	Nickel as Ni	mg/l	1.86	<3.0	USEPA-WS 846, Method 7000B, 7440-02-0
7	Calorific Value	cal/g	2315	<2500 cal/g	IS:1350-1970
8	Mercury as Hg	mg/l	Below Detection Limit	<0.1	7.5/5, LATS/16/2002-03
9	Loss on drying at 105°C	%	23.1	Not Specified	ASTM D 2974-14

Remarks :

Note :

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[Signature]

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 ► Email: info@azislabs.com, j.dingwani@azislabs.com. Visit: www.azislabs.in

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Test Report

Format No. : AL/FM/51A

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejalata Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : ENV-8561/2023 - 2024

Booking Date : 22/11/2023

TRF Ref. No. : NA

TRF Date : NA

MFG. LIC. NO. : NA

Issue Date : 29/11/2023

Sample Name : Composite Waste

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By : Azis Labs

Sample Quantity : 1 x 1 kg approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 21/11/2023 14:40

Packing : Polybab

Packing Type : Sealed

Analysis Start Date : 22/11/2023

Analysis End Date : 29/11/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10.	Ash Content	%	60.6	Not Specified	ASTM D 2974-14
11.	pH at 5%	----	5.5	4 to 12	USEPA-WS 846 Method 9040
12.	Loss on ignition at 550°C	%	16.7	<20%	ASTM D 2974-14
13.	Nitrate	mg/kg	20.4	<30	USEPA-WS 846 Method 9210 A
14.	Nitrite	mg/kg	Below Detection Limit	<0.5	USEPA-WS 846 Method 9210 A
End of Report					

Remarks :

Note :

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Format No. : AL/FM/51A

Test Report

Report Issued to

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejvta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. ENV-4420/2023 - 2024
 Booking Date 12/08/2023
 TRF Ref. No. NA
 TRF Date NA
 MFG. LIC. NO. NA
 Issue Date 19/08/2023

Sample Name : Composite Waste

Batch No. NA

Batch Size NA

Mfg. Name NA

Sampling By : Azis Labs

Sample Quantity : 1 x 2 Kg approx

Date of Mfg. NA

Date of Expiry NA

Sampling Date&Time : 12/08/2023 14:49

Packing Polybag

Packing Type Sealed

Analysis Start Date 12/08/2023

Analysis End Date 19/08/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1	Arsenic as As	mg/l	Not detected	<1.0	USEPA-WS 846 Method 7061 A
2	Chromium as Cr	mg/l	Not detected	Not Specified	USEPA-WS 846, Method 7000B, 7440-47-3
3	Lead as Pb	mg/l	Not detected	<2.0	USEPA-WS 846, Method 7000B, 7439-92-1
4	Copper as Cu	mg/l	7.99	<10	USEPA-WS 846, Method 7000B, 7440-50-8
5	Zinc as Zn	mg/l	4.00	<10	USEPA-WS 846, Method 7000B, 7440-66-6
6	Nickel as Ni	mg/l	1.80	<3.0	USEPA-WS 846, Method 7000B, 7440-02-0
7	Caloric Value	cal/g	2012.35	<2500 cal/g	IS: 1350:1970
8	Mercury as Hg	mg/l	Not detected	<0.1	7.5/5, LATS/16/2002-03
9	Loss on drying at 105°C	%	19.78	Not Specified	ASTM D 2974-14

Remarks :

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 * Lab Contact No. : 96698 89316, 98270 08819, 7089333892
 * Email : info@azislabs.com, j.dingwani@azislabs.com, Visit : www.azislabs.in

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 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Format No. : AL/FM/51A

Test Report

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)
Sejanta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R. No. ENV-4420/2023 - 2024

Booking Date 12/08/2023

TRF Ref. No. NA

TRF Date NA

MFG. LIC. NO. NA

Issue Date 19/08/2023

Sample Name : Composite Waste

Batch No. NA

Batch Size NA

Mfg. Name NA

Sampling By : Azis Labs

Sample Quantity : 1 x 2 Kg approx

Date of Mfg. NA

Date of Expiry NA

Sampling Date&Time : 12/08/2023 14:40

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 12/08/2023

Analysis End Date : 19/08/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10.	Ash Content	%	40.80	Not Specified	ASTM D 2974-14
11.	pH at 5%	-----	6.96	4 to 12	USEPA-WS 846 Method 9040
12.	Loss on ignition at 550°C	%	16.88	<20%	ASTM D 2974-14
13.	Nitrate	mg/kg	18.7	<30	USEPA-WS 846 Method 9210 A
14.	Nitrite	mg/kg	Not detected	<0.5	USEPA-WS 846 Method 9210 A
End of Report					

Remarks :

Note :

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Format No. : AL/FM/51A

Test Report

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejalta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : ENV-1386/2023 - 2024
 Booking Date : 15/05/2023
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 25/05/2023

Sample Name : Composite Waste

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By : Azis labs

Sample Quantity : 1.5 Kg approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 15/05/2023 15:30

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 15/05/2023

Analysis End Date : 25/05/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
1.	Arsenic as As	mg/l	Not Detected	<1.0	USEPA-WS 846, Method 7051 A
2.	Chromium as Cr	mg/l	Not Detected	Not Specified	USEPA-WS 846, Method 7000B, 7440-47-3
3.	Lead as Pb	mg/l	Not Detected	<2.0	USEPA-WS 846, Method 7000B, 7439-92-1
4.	Copper as Cu	mg/l	8.26	<10	USEPA-WS 846, Method 7000B, 7440-50-8
5.	Zinc as Zn	mg/l	3.50	<10	USEPA-WS 846, Method 7000B, 7440-66-6
6.	Nickel as Ni	mg/l	2.00	<3.0	USEPA-WS 846, Method 7000B, 7440-02-0
7.	Caloric Value	cal/g	1977.7	<2500 cal/g	IS: 1350:1970
8.	Mercury as Hg	mg/l	Not Detected	<0.1	7.5/5.LATS/16/2002-03
9.	Loss on drying at 105°C	%	19.66	Not Specified	ASTM D 2574-14

Remarks :

Note :

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 ► Email: info@azislabs.com, j.dingwani@azislabs.com Visit: www.azislabs.in

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 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) CERTIFIED LAB

Format No. : ALFM/51A

Test Report

Report issued to

IPCA LABORATORIES LIMITED, (RATLAM)
 Sejavta Ratlam

RATLAM (M.P.) - 457002 MADHYA PRADESH

A.R No. : ENV-1386/2023 - 2024
 Booking Date : 15/05/2023
 TRF Ref. No. : NA
 TRF Date : NA
 MFG. LIC. NO. : NA
 Issue Date : 25/05/2023

Sample Name : Composite Waste

Batch No. : NA

Batch Size : NA

Mfg. Name : NA

Sampling By. : Azis labs

Sample Quantity : 1.5 Kg approx

Date of Mfg. : NA

Date of Expiry : NA

Sampling Date&Time : 15/05/2023 15:30

Packing : Polybag

Packing Type : Sealed

Analysis Start Date : 15/05/2023

Analysis End Date : 25/05/2023

SR	CHARACTERISTIC	UNIT	RESULT	SPECIFICATION	METHOD OF TEST
10.	Ash Content	%	39.64	Not Specified	ASTM D 2974-14
11.	pH at 5%	—	6.93	4 to 12	USEPA-WS 846, Method 9040
12.	Loss on ignition at 550°C	%	16.75	<20%	ASTM D 2974-14
13.	Nitrate	mg/kg	18.2	<30	USEPA-WS 846, Method 9210 A
14.	Nitrite	mg/kg	Not Detected	<0.5	USEPA-WS 846, Method 9210 A
End of Report					

Remarks :

Note :

1. The legal liabilities limited up to the analytical charges only.
2. The results are related only to the sample tested.
3. This reports shall not be reproduced without the written approval of Azis Labs.


 Authorized Signatory

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