

**Monthly Performance Report
(HWT-NG100-MPR-44-R0)**

**March 2020
(From 01/03/2020 to 31/03/2020)**

**100 TPD Municipal Solid Waste (MSW) Facility
Calangute, North Goa**

Prepared By
**Hindustan Waste Treatment Pvt. Ltd.
(HWT)**

Submitted To
**Goa Waste Management Corporation (GWMC)
Department of Science & Technology (DS&T)**

Table – 1
Summary of Overall Average Results for March 2020
(As compared to Schedule – 7: Performance Standards, Volume – I of RFP)

Sr. No.	Parameter	Performance Standard As per Schedule – 7	Actual Performance at Plant (Monthly Average)
1.	Number of fractions of recyclables sorted per day from the input mixed waste	Minimum 10 numbers of fractions shall be sorted daily from the input dry waste as received in the facility. The list of fractions are as follows: 1. PET Bottles 2. Mixed Plastic Articles 3. Newspapers / other Paper Material 4. Cardboard 5. Styrofoam & Thermocol 6. Coconut Shells 7. Clothes 8. Rubber Articles 9. Metal Articles & Cans 10. E-waste Articles and any Hazardous Waste	13 numbers of fractions are being sorted daily from the input dry waste as received in the facility. The list of fractions are as follows: 1. Glass 2. Aluminium 3. Metal 4. Paper + Cardboard 5. Tetra Pack 6. Hard Plastic 7. PET 8. Mixed Plastic 9. Styrofoam + Thermocol 10. Cloth + Rags + Textile 11. Leather + Rexine + Rubber 12. Coconut Shells 13. E-waste Articles and any Hazardous Waste
2.	Quantum of reject/residues to be sent to the landfill after processing. No organic fraction shall be disposed in the landfill.	Maximum 10% of inert of the total input waste as received in the facility (in TPD).	Input waste to the Plant is 127.97 TPD . Quantum of Inert is 0.48 TPD which is < 10% of the Total Input Waste as received in the Facility. No Organic Waste has been disposed in the Sanitary Landfill Facility.
3.	Electricity generation in the Plant	Minimum electricity to be generated in the plant shall be 0.40 MW per 100 tons of input wet biodegradable waste as received in the Facility (in TPD).	Electricity generation is 0.48 MW/100 MT of Input Biodegradable Waste as received in the Facility (in TPD).
4.	Biogas Flaring System	The Biogas Flaring System shall strictly be used only in case of	Biogas is being flared strictly, only under emergency and not as a

Sr. No.	Parameter	Performance Standard As per Schedule – 7	Actual Performance at Plant (Monthly Average)										
		emergency and not as a routine practice.	routine practice. The average running time of Biogas Flaring System is 3.67 hours/day .										
5.	Discharge of treated effluent conforming to regulatory norms	Effluent Treatment Plant shall be operated under all conditions.	Effluent Treatment Plant is being operated continuously and is meeting all statutory conditions. The Treated Effluent Characteristics are as follows: <table border="1" data-bbox="1032 646 1403 856"> <tbody> <tr> <td>pH</td> <td>6.83</td> </tr> <tr> <td>BOD</td> <td>7 mg/l</td> </tr> <tr> <td>COD</td> <td>68 mg/l</td> </tr> <tr> <td>TSS</td> <td>8 mg/l</td> </tr> <tr> <td>TDS</td> <td>1,671 mg/l</td> </tr> </tbody> </table>	pH	6.83	BOD	7 mg/l	COD	68 mg/l	TSS	8 mg/l	TDS	1,671 mg/l
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6.	General Housekeeping, hygienic conditions, cleanliness, safety norms, adequate manpower, treatment methodology for plant operation & maintenance and storage conditions in the plant.	Minimum housekeeping, safety norms and cleanliness conditions shall be maintained at all times as per the Bid Document requirement.	<ul style="list-style-type: none"> • High standard of Housekeeping, Cleanliness and Safety are being maintained at all times at the Plant. • Adequate manpower has been deployed in all shifts. • Also, the treatment methodology is being followed properly and proper storage conditions have been maintained in the Plant. 										

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

#	Plant Performance Data: March 2020		
Sr. No.	Content	Month	Signature
1	Input Waste Composition	From 01.03.2020 To 31.03.2020	
2	Recyclables		
3	Electricity Generation		
4	Biogas Flare		
5	Effluent Treatment Plant		
6	Inert		
7	Housekeeping		

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

1 WASTE:																								
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar		
1.1 Input Waste:																								
1	Type 1: Dry Waste	TPD	67.98	96.13	79.27	74.45	72.40	69.76	75.44	76.49	44.50%	72.13	84.62	63.87	72.46	87.17	80.36	74.12	76.39	47.42%	63.06	89.85	74.52	73.22
2	Type 2: Wet Waste	TPD	96.81	89.76	96.51	95.17	101.21	82.63	92.60	93.53	54.42%	81.94	94.15	58.93	83.71	67.48	89.30	105.54	83.01	51.52%	81.28	80.15	96.20	70.52
3	Type 3: Mixed Waste	TPD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00
4	Type 4: Tree Waste	TPD	3.73	1.76	0.45	1.78	1.73	1.67	1.85	1.85	1.08%	1.89	0.90	0.38	1.83	2.20	3.73	1.01	1.71	1.06%	1.73	1.81	1.11	1.53
5	Total.....(1)+(2)+(3)+(4)	TPD	168.52	187.65	176.23	171.40	175.34	154.06	169.89	171.87	100.00%	155.96	179.67	123.18	158.00	156.85	173.39	180.67	161.10	100.00%	146.07	171.81	171.83	145.27

Note:
 1 Type-I: Dry Waste: This has 25-30% Organic and 70-75% Inorganic.
 2 Type-II: Wet Waste: This has 65-70% Organic and 30-35%
 3 Type-I: Mixed Waste: This has 45-50% Organic and 50-55% Inorganic.

Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar		
1.2 Output Products:																								
1	Organic Fraction	TPD	85.37	86.49	85.43	82.19	89.57	73.57	82.69	83.62	48.65%	74.55	88.11	56.47	78.41	68.55	82.23	91.79	77.16	47.89%	71.96	77.50	85.70	66.23
2	Inorganic Fraction:																							
	Recyclables	TPD	11.73	12.77	13.01	12.93	12.17	10.38	12.47	12.21	7.10%	11.68	12.80	8.99	11.56	10.72	12.91	12.52	11.60	7.20%	11.01	12.09	12.92	10.13
	RDF	TPD	65.30	83.73	74.86	72.20	69.46	66.02	67.97	71.36	41.52%	65.50	75.38	52.99	64.31	70.97	71.82	72.60	67.65	41.99%	54.89	77.64	69.33	65.29
	Bulking Material	TPD	2.39	2.90	2.48	2.31	2.41	2.42	2.60	2.50	1.46%	2.34	2.48	1.89	1.89	1.78	2.70	2.75	2.26	1.40%	2.24	2.77	2.77	2.08
	Inert	TPD	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.33	0.19%	0.00	0.00	2.46	0.00	2.63	0.00	0.00	0.73	0.45%	4.24	0.00	0.00	0.00
3	Tree Waste	TPD	3.73	1.76	0.45	1.78	1.73	1.67	1.85	1.85	1.08%	1.89	0.90	0.38	1.83	2.20	3.73	1.01	1.71	1.06%	1.73	1.81	1.11	1.53
	Total.....(1)+(2)+(3)	TPD	168.52	187.65	176.23	171.40	175.34	154.06	169.89	171.87	100%	155.96	179.67	123.18	158.00	156.85	173.39	180.67	161.10	100%	146.07	171.81	171.83	145.27

2 RECYCLABLES:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
1	Glass	Kg	165	242	264	170	208	198	235	212	169	268	160	203	155	170	216	192	188	255	205	158
2	Aluminum	Kg	165	112	88	119	156	107	118	124	77	143	123	141	93	85	180	120	115	85	171	115
3	Metal	Kg	247	335	316	305	347	229	319	300	277	304	196	297	232	305	323	276	231	255	290	244
4	Tetra Pack	Kg	165	130	141	119	87	91	118	122	123	179	98	109	93	170	162	133	130	170	154	144
5	Hard Plastic	Kg	297	204	299	187	226	183	319	245	185	232	135	187	247	339	180	215	202	323	324	230
6	PET	Kg	313	353	176	339	174	213	269	262	154	232	221	187	170	305	234	215	202	170	171	230
7	Mixed Plastic	Kg	10,283	11,302	11,619	11,568	10,816	9,250	10,990	10,833	10,569	11,352	7,994	10,323	9,650	11,452	11,085	10,346	9,873	10,710	11,524	8,869
8	Thermocol + Styrofoam	Kg	99	93	105	119	156	107	101	111	123	89	61	109	77	85	144	98	72	119	85	144
9	Cloth + Rags + Textiles	Kg	1,615	1,060	1,283	1,238	868	1,051	1,210	1,189	1,494	1,770	1,228	1,546	851	1,357	1,671	1,417	938	1,564	1,690	733
10	Leather + Rexine + Rubber	Kg	1,467	1,506	1,547	1,035	1,458	1,265	1,428	1,387	986	1,645	749	1,484	1,222	933	1,078	1,157	996	986	1,690	963
11	Paper + Cardboard	Kg	1,071	1,153	1,125	1,170	1,163	960	1,159	1,114	1,017	1,144	810	1,062	943	1,086	1,132	1,028	982	1,156	1,093	963
12	Coconut	Kg	1,318	1,747	1,354	1,136	1,250	1,463	1,445	1,388	1,325	1,341	1,081	828	835	1,612	1,617	1,234	1,256	1,615	1,673	1,121

Note:
 1 Item No. 9 (Cloth + Rags + Textiles) and 10 (Leather + Rexine + Rubber) are sent to Cement Plants as RDF.
 2 Item No. 11 (Paper + Cardboard) and 12 (Coconut) are used as Bulking Material in Composting.

3 DISPOSAL OF INERT:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
1 As per Tender: Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility.																						
2	Input Waste	TPD	168.52	187.65	176.23	171.40	175.34	154.06	169.89	171.87	155.96	179.67	123.18	158.00	156.85	173.39	180.67	161.10	146.07	171.81	171.83	145.27
3	Inert Fraction	TPD	0.00	0.00	0.00	0.00	0.00	0.00	2.31	0.33	0.00	0.00	2.46	0.00	2.63	0.00	0.00	0.73	4.24	0.00	0.00	0.00
4	% of Total Input Waste.....(3) ÷ (2)	%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.36%	0.19%	0.00%	0.00%	2.00%	0.00%	1.68%	0.00%	0.00%	0.52%	2.90%	0.00%	0.00%	0.00%

4 ELECTRICITY GENERATION:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
3.1 Biogas Gensets:																						
1	Biogas Genset-I: Running Time	hr/day	23.80	23.15	23.80	23.95	23.95	23.65	24.00	23.76	23.30	24.00	23.50	23.80	23.85	23.95	23.95	23.76	23.95	24.00	24.00	24.00
2	Biogas Genset-I: Biogas Consumption	Nm ³ /day	2,291	2,216	2,298	2,320	2,296	2,341	2,266	2,290	2,215	2,290	2,241	2,255	2,273	2,276	2,281	2,262	2,282	2,282	2,280	2,272
3	Biogas Genset-I: Energy Generation	kW.hr/day	3,880	3,810	3,880	3,920	3,780	3,910	4,030	3,887	3,910	3,980	3,850	3,900	3,890	3,970	3,960	3,923	3,860	3,940	3,930	3,900
4	Biogas Genset-II: Running Time	hr/day	23.80	23.15	23.80	23.95	23.95	23.84	24.00	23.78	23.25	24.00	23.50	23.80	23.85	23.95	23.95	23.76	23.95	23.95	23.95	23.95
5	Biogas Genset-II: Biogas Consumption	Nm ³ /day	2,103	2,036	2,097	2,105	2,116	1,979	2,111	2,078	2,058	2,131	2,082	2,096	2,115	2,119	2,124	2,104	2,132	2,136	2,138	2,134
6	Biogas Genset-II: Energy Generation	kW.hr/day	3,920	3,850	3,930	4,000	4,010	3,720	4,020	3,921	3,900	3,980	3,860	3,880	3,880	3,980	3,950	3,919	3,840	3,940	3,930	3,900
7	Total Biogas Consumption = (2)+(5)	Nm ³ /day	4,394	4,253	4,395	4,424	4,412	4,320	4,377	4,368	4,272	4,421	4,322	4,351	4,387	4,395	4,406	4,365	4,414	4,418	4,418	4,406
8	Total Energy Generation = (3)+(6)	kW.hr/day	7,800	7,660	7,810	7,920	7,790	7,630	8,050	7,809	7,810	7,960	7,710	7,780	7,770	7,950	7,910	7,841	7,700	7,880	7,860	7,800

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
3.2 Electricity Generation:																						
1	<u>As per Tender:</u> Minimum electricity to be generated in the plant shall be 0.4 MW per 100 tons of Input Biodegradable Waste as received in the Facility.	MW/100 MT	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Biodegradable Waste = 1.2.2	TPD	96.81	89.76	96.51	95.17	101.21	82.63	92.60	93.53	81.94	94.15	58.93	83.71	67.48	89.30	105.54	83.01	81.28	80.15	96.20	70.52
3	Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100	kW	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
4	Guaranteed Electricity Generation = 3.2.3 x 24 x 1000	kW.hr/day	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,760	5,657	5,760	5,760	5,760	5,760	5,745	5,760	5,760	5,760	5,760
5	Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24)	kW	325	319	325	330	325	318	335	325	325	332	321	324	324	331	330	327	321	328	328	325
6	Available Electricity Generation = 3.2.5 ÷ 100	MW/100 MT	0.54	0.53	0.54	0.55	0.54	0.53	0.56	0.54	0.54	0.55	0.55	0.54	0.54	0.55	0.55	0.55	0.53	0.55	0.55	0.54

5 BIOGAS FLARE:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
1	Operation Time	hr/day	11.98	10.03	9.73	10.05	4.78	10.65	7.23	9.21	5.07	5.63	5.92	2.88	4.57	3.58	2.98	4.38	2.80	2.30	3.70	2.13
2	Biogas Flared	Nm ³ /day	2,696	2,257	2,190	2,261	1,076	2,396	1,627	2,072	1,140	1,267	1,331	649	1,028	806	671	985	630	518	833	480

6 DIGESTERS:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
5.1 Digester-I: Front End																						
1	pH	---	0.00	7.40	7.36	7.53	7.65	7.72	7.78	6.49	0.00	7.79	7.81	0.00	7.80	7.79	7.80	5.57	0.00	0.00	7.76	7.76
2	TSS	ppm	0	0	39,352	38,566	42,897	41,663	40,015	28,928	0	43,332	42,580	0	45,842	43,524	42,318	31,085	0	0	39,410	42,846
3	VSS	ppm	0	0	27,576	27,564	31,989	29,950	29,451	20,933	0	30,364	29,357	0	31,405	30,145	29,651	21,560	0	0	29,632	31,587
4	Total Alkalinity	ppm as CaCO ₃	0	7,475	7,625	8,000	8,225	8,325	8,550	6,886	0	8,650	8,700	0	8,800	8,900	9,175	6,318	0	0	9,000	9,075
5	VFA	ppm as HAC	0	3,162	3,162	3,996	2,996	2,913	2,830	2,723	0	2,747	2,830	0	2,830	2,581	2,498	1,927	0	0	2,498	2,581
5.2 Digester-I: Back End																						
1	pH	---	0.00	7.44	7.39	7.57	7.69	7.76	7.81	6.52	0.00	7.82	7.84	0.00	7.83	7.82	7.84	5.59	0.00	0.00	7.79	7.78
2	TSS	ppm	0	0	40,173	41,258	44,682	40,959	43,087	30,023	0	43,529	43,128	0	44,246	44,852	43,274	31,290	0	0	41,278	40,728
3	VSS	ppm	0	0	28,515	28,966	29,539	28,274	29,670	20,709	0	29,413	30,588	0	29,752	29,637	30,186	21,368	0	0	30,312	29,354
4	Total Alkalinity	ppm as CaCO ₃	0	7,675	7,800	8,225	8,400	8,500	8,675	7,039	0	8,800	8,850	0	8,900	9,000	9,225	6,396	0	0	9,100	9,225
5	VFA	ppm as HAC	0	3,162	2,996	2,830	2,747	2,747	2,581	2,438	0	2,581	2,664	0	2,664	2,332	2,249	1,784	0	0	2,332	2,332
5.3 Buffer Tank: Front End																						
1	pH	---	0.00	7.34	7.38	7.54	7.72	7.75	7.76	6.50	0.00	7.80	7.68	0.00	7.75	7.74	7.74	5.53	0.00	0.00	7.71	7.72
2	TSS	ppm	0	0	40,172	39,462	43,158	40,872	40,061	29,104	0	44,104	43,251	0	43,431	43,456	42,366	30,944	0	0	43,650	43,236
3	VSS	ppm	0	0	28,933	27,634	30,227	31,782	29,296	21,125	0	31,608	31,456	0	30,241	31,025	29,655	21,998	0	0	31,756	32,007
4	Total Alkalinity	ppm as CaCO ₃	0	7,600	7,600	8,200	8,400	8,450	8,575	6,975	0	8,825	8,675	0	8,675	8,825	9,100	6,300	0	0	8,825	8,950
5	VFA	ppm as HAC	0	3,245	3,079	2,913	2,830	2,913	2,913	2,556	0	2,830	2,830	0	2,664	2,581	2,664	1,938	0	0	2,664	2,747
5.4 Buffer Tank: Back End																						
1	pH	---	0.00	7.38	7.43	7.62	7.78	7.80	7.80	6.54	0.00	7.84	7.71	0.00	7.77	7.76	7.76	5.55	0.00	0.00	7.74	7.73
2	TSS	ppm	0	0	41,647	38,966	43,646	44,704	40,956	29,988	0	45,559	41,963	0	44,076	44,174	43,274	31,292	0	0	40,982	41,755
3	VSS	ppm	0	0	29,835	28,972	30,049	30,603	29,143	21,229	0	32,749	30,791	0	31,140	30,140	29,654	22,068	0	0	30,734	30,834
4	Total Alkalinity	ppm as CaCO ₃	0	7,750	7,700	8,250	8,475	8,550	8,625	7,050	0	8,900	8,625	0	8,750	8,925	8,975	6,311	0	0	8,750	9,050
5	VFA	ppm as HAC	0	3,162	2,996	2,747	2,664	2,664	2,664	2,414	0	2,581	2,581	0	2,664	2,498	2,415	1,820	0	0	2,664	2,581
5.5 Digester-II: Front End																						
1	pH	---	0.00	7.36	7.37	7.55	7.63	7.67	7.76	6.48	0.00	7.74	7.71	0.00	7.76	7.77	7.78	5.54	0.00	0.00	7.69	7.70
2	TSS	ppm	0	0	39,953	41,322	42,870	43,090	41,076	29,759	0	42,106	42,146	0	44,455	44,255	44,315	31,040	0	0	40,791	42,883
3	VSS	ppm	0	0	28,035	30,274	29,250	30,680	30,137	21,197	0	30,512	30,520	0	31,262	30,262	32,410	22,138	0	0	29,552	30,966
4	Total Alkalinity	ppm as CaCO ₃	0	7,300	7,400	7,950	8,125	8,225	8,450	6,779	0	8,575	8,525	0	8,800	8,850	9,000	6,250	0	0	8,850	8,975
5	VFA	ppm as HAC	0	3,328	3,411	2,996	2,913	2,996	2,830	2,639	0	2,830	2,747	0	2,830	2,664	2,581	1,950	0	0	2,581	2,747
5.6 Digester-II: Back End																						
1	pH	---	0.00	7.39	7.41	7.59	7.71	7.70	7.78	6.51	0.00	7.77	7.75	0.00	7.79	7.79	7.81	5.56	0.00	0.00	7.71	7.74
2	TSS	ppm	0	0	42,491	40,355	44,065	44,984	42,225	30,589	0	42,658	42,632	0	44,924	44,294	41,365	30,839	0	0	41,320	40,286
3	VSS	ppm	0	0	30,501	29,643	29,804	30,852	30,438	21,605	0	30,637	30,612	0	31,366	30,314	28,764	21,670	0	0	30,420	29,632
4	Total Alkalinity	ppm as CaCO ₃	0	7,575	7,675	8,175	8,250	8,425	8,550	6,950	0	8,700	8,725	0	8,975	8,975	9,075	6,350	0	0	9,050	9,150
5	VFA	ppm as HAC	0	3,079	3,162	2,913	2,747	2,913	2,747	2,509	0	2,664	2,581	0	2,581	2,415	2,415	1,808	0	0	2,415	2,498

7 EFFLUENT TREATMENT PLANT:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
6.1 Raw Effluent Quality:																						
1	Flow	m ³ /day	34.80	52.02	58.03	48.36	54.61	50.65	63.91	51.77	75.00	67.57	61.94	67.79	66.05	72.70	55.61	66.67	39.51	64.99	58.62	64.23
2	pH	---	6.03	7.99	6.23	7.83	7.48	6.10	6.48	6.88	6.33	7.98	7.71	7.30	7.93	7.68	6.23	7.31	6.61	6.74	6.08	7.17
3	Biochemical Oxygen Demand (BOD5)	mg/l	2,429	2,013	2,211	1,848	2,181	2,058	1,837	2,082	1,969	1,794	2,032	1,683	1,948	2,044	2,146	1,945	2,400	2,012	1,652	1,541
4	Chemical Oxygen Demand (COD)	mg/l	6,388	5,838	7,097	5,156	6,150	7,100	5,438	6,167	4,174	5,884	6,421	4,948	6,370	4,190	6,653	5,520	6,696	5,211	5,319	5,286
5	Total Suspended Solids (TSS)	mg/l	4,809	3,845	3,515	3,271	5,038	3,149	2,847	3,782	3,013	3,301	4,247	2,625	4,831	4,844	5,236	4,014	3,936	4,829	2,693	2,527
6	Total Dissolve Solids (TDS)	mg/l	1,674	1,708	1,704	1,370	1,752	1,694	1,557	1,637	1,556	1,332	1,457	1,449	1,614	1,706	1,548	1,523	1,626	1,474	1,496	1,447

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
6.2 Treated Effluent Quality:																						
1	pH	---	6.58	6.67	6.84	6.69	7.06	6.92	7.20	6.85	6.67	7.41	7.44	6.64	6.62	6.69	6.85	6.90	6.96	7.14	6.54	7.21
2	Biochemical Oxygen Demand (BOD5)	mg/l	5	7	7	5	7	6	9	7	7	8	6	5	8	5	9	7	5	8	6	9
3	Chemical Oxygen Demand (COD)	mg/l	59	88	86	67	64	56	51	67	50	69	77	57	84	76	77	70	83	84	59	78
4	Total Suspended Solids (TSS)	mg/l	6	8	8	6	8	7	10	8	8	9	7	6	9	6	10	8	6	9	7	10
5	Total Dissolve Solids (TDS)	mg/l	1,674	1,862	1,721	1,452	1,892	1,779	1,619	1,714	1,618	1,465	1,544	1,536	1,743	1,723	1,703	1,619	1,675	1,533	1,646	1,548

8 HOUSEKEEPING:																						
Sr. No.	Description	Unit	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	Weekly Average 1-7	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	Weekly Average 8-14	15-Mar	16-Mar	17-Mar	18-Mar
1	Hygienic Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
2	Cleanliness	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
3	Manpower Deployed	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
4	Safety Norms	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
5	Treatment Methodology	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
6	Storage Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

1 WASTE:																							
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21		22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28		29-Mar	30-Mar	31-Mar	Weekly Average 29-31		Monthly Average 1-31	
1.1 Input Waste:																							
1	Type 1: Dry Waste	TPD	67.71	63.52	63.14	70.72	47.96%	18.42	54.85	50.84	35.79	36.53	36.66	27.55	37.23	58.81%	24.43	28.22	47.39	33.35	62.20%	62.12	48.55%
2	Type 2: Wet Waste	TPD	69.63	60.85	66.60	75.03	50.89%	8.65	52.11	38.56	28.12	13.08	25.82	15.63	26.00	41.06%	23.69	12.24	24.33	20.09	37.47%	64.62	50.50%
3	Type 3: Mixed Waste	TPD	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00%	0.00	0.00%
4	Type 4: Tree Waste	TPD	2.95	1.58	1.22	1.70	1.16%	0.00	0.16	0.09	0.14	0.01	0.06	0.15	0.09	0.14%	0.11	0.22	0.21	0.18	0.34%	1.23	0.96%
5	Total.....(1)+(2)+(3)+(4)	TPD	140.29	125.95	130.96	147.45	100.00%	27.07	107.12	89.49	64.05	49.62	62.54	43.33	63.32	100.00%	48.23	40.68	71.93	53.61	100.00%	127.97	100.00%

- # Note:
 1 Type-I: Dry Waste: This has 25-30% Organic and 70-75% Inorganic.
 2 Type-II: Wet Waste: This has 65-70% Organic and 30-35%
 3 Type-I: Mixed Waste: This has 45-50% Organic and 50-55% Inorganic.

Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21		22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28		29-Mar	30-Mar	31-Mar	Weekly Average 29-31		Monthly Average 1-31	
1.2 Output Products:																							
1	Organic Fraction	TPD	67.74	59.43	61.05	69.94	47.43%	10.44	48.01	39.69	28.69	19.12	26.85	18.44	27.32	43.15%	22.60	15.69	28.83	22.37	41.73%	60.43	47.22%
2	Inorganic Fraction:																						
	Recyclables	TPD	9.30	8.94	9.02	10.49	7.11%	2.01	7.78	6.87	4.40	3.50	4.82	3.23	4.66	7.35%	3.41	3.06	5.14	3.87	7.22%	9.17	7.17%
	RDF	TPD	55.43	53.92	58.13	62.09	42.11%	14.28	49.69	41.70	29.77	26.28	29.81	20.94	30.35	47.94%	21.49	21.21	36.64	26.44	49.32%	54.82	42.84%
	Bulking Material	TPD	1.70	2.08	1.54	2.17	1.47%	0.34	1.49	1.14	1.05	0.71	1.00	0.57	0.90	1.42%	0.62	0.51	1.11	0.74	1.39%	1.84	1.44%
	Inert	TPD	3.17	0.00	0.00	1.06	0.72%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	0.00%	0.48	0.37%
3	Tree Waste	TPD	2.95	1.58	1.22	1.70	1.16%	0.00	0.16	0.09	0.14	0.01	0.06	0.15	0.09	0.14%	0.11	0.22	0.21	0.18	0.34%	1.23	0.96%
	Total.....(1)+(2)+(3)	TPD	140.29	125.95	130.96	147.45	100%	27.07	107.12	89.49	64.05	49.62	62.54	43.33	63.32	100%	48.23	40.68	71.93	53.61	100%	127.97	100%

2 RECYCLABLES:																							
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21		22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28		29-Mar	30-Mar	31-Mar	Weekly Average 29-31		Monthly Average 1-31	
1	Glass	Kg	137	187	143	182		41	139	134	64	55	94	47	82		53	57	72	61		157	
2	Aluminum	Kg	96	112	91	112		16	96	72	32	50	62	35	52		24	32	50	35		96	
3	Metal	Kg	206	199	221	235		46	171	179	109	84	119	69	111		77	69	122	89		217	
4	Tetra Pack	Kg	82	75	130	126		19	75	54	38	50	56	35	47		43	36	57	45		101	
5	Hard Plastic	Kg	220	211	182	242		41	182	161	121	79	81	78	106		77	49	79	68		189	
6	PET	Kg	179	187	143	183		41	171	143	89	64	69	86	95		87	77	72	79		178	
7	Mixed Plastic	Kg	8,240	7,848	8,031	9,299		1,787	6,845	6,043	3,879	3,066	4,305	2,841	4,109		3,003	2,711	4,655	3,456		8,145	
8	Thermocol + Styrofoam	Kg	137	124	78	108		19	96	80	64	50	31	43	55		48	28	36	37		88	
9	Cloth + Rags + Textiles	Kg	769	958	1,284	1,134		249	813	688	620	427	412	263	496		255	316	631	401		995	
10	Leather + Rexine + Rubber	Kg	810	1,032	921	1,057		146	685	581	403	496	356	423	441		380	275	581	412		952	
11	Paper + Cardboard	Kg	893	871	791	964		181	663	590	422	303	381	289	404		289	267	437	331		825	
12	Coconut	Kg	810	1,206	752	1,205		157	824	554	633	407	619	276	496		327	239	674	413		1,016	

- # Note:
 1 Item No. 9 (Cloth + Rags + Textiles) and 10 (Leather + Rexine + Rubber) are sent to Cement Plants as RDF.
 2 Item No. 11 (Paper + Cardboard) and 12 (Coconut) are used as Bulking Material in Composting.

3 DISPOSAL OF INERT:																							
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21		22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28		29-Mar	30-Mar	31-Mar	Weekly Average 29-31		Monthly Average 1-31	
1 As per Tender: Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility.																							
2	Input Waste	TPD	140.29	125.95	130.96	147.45		27.07	107.12	89.49	64.05	49.62	62.54	43.33	63.32		48.23	40.68	71.93	53.61		127.97	
3	Inert Fraction	TPD	3.17	0.00	0.00	1.06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.48	
4	% of Total Input Waste.....(3) ÷ (2)	%	2.26%	0.00%	0.00%	0.74%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%		0.37%	

4 ELECTRICITY GENERATION:																							
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21		22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28		29-Mar	30-Mar	31-Mar	Weekly Average 29-31		Monthly Average 1-31	
3.1 Biogas Gensets:																							
1	Biogas Genset-I: Running Time	hr/day	23.55	23.95	23.45	23.84		23.15	23.81	23.95	20.70	23.30	14.00	0.00	18.42		15.35	0.80	13.70	9.95		21.24	
2	Biogas Genset-I: Biogas Consumption	Nm ³ /day	2,223	2,278	2,217	2,262		2,172	2,334	2,280	1,849	1,828	1,264	0	1,675		1,216	58	1,189	821		1,996	
3	Biogas Genset-I: Energy Generation	kW.hr/day	3,780	3,930	3,890	3,890		3,880	3,874	3,960	3,020	2,900	2,240	0	2,839.14		1,750	70	2,030	1,283		3,407	
4	Biogas Genset-II: Running Time	hr/day	23.55	24.00	23.40	23.82		23.10	21.49	23.95	23.95	11.75	10.25	23.80	19.76		20.50	24.00	9.35	17.95		22.31	
5	Biogas Genset-II: Biogas Consumption	Nm ³ /day	2,078	2,127	2,082	2,118		2,027	1,784	2,140	2,005	827	794	1,977	1,650		1,581	2,075	806	1,487		1,939	
6	Biogas Genset-II: Energy Generation	kW.hr/day	3,770	3,910	3,880	3,881		3,860	3,336	3,970	3,480	1,350	1,370	3,500	2,981		2,570	3,670	1,530	2,590		3,571	
7	Total Biogas Consumption = (2)+(5)	Nm ³ /day	4,301	4,405	4,299	4,380		4,199	4,118	4,420	3,854	2,654	2,057	1,977	3,325		2,797	2,133	1,995	2,308		3,935	
8	Total Energy Generation = (3)+(6)	kW.hr/day	7,550	7,840	7,770	7,771		7,740	7,210	7,930	6,500	4,250	3,610	3,500	5,820		4,320	3,740	3,560	3,873		6,978	

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
3.2 Electricity Generation:																			
1	As per Tender: Minimum electricity to be generated in the plant shall be 0.4 MW per 100 tons of Input Biodegradable Waste as received in the Facility.	MW/100 MT	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Biodegradable Waste = 1.2.2	TPD	69.63	60.85	66.60	75.03	8.65	52.11	38.56	28.12	13.08	25.82	15.63	26.00	23.69	12.24	24.33	20.09	64.62
3	Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100	kW	0.24	0.24	0.24	0.24	0.03	0.21	0.15	0.11	0.05	0.10	0.06	0.10	0.09	0.05	0.10	0.08	0.18
4	Guaranteed Electricity Generation = 3.2.3 x 24 x 1000	kW.hr/day	5,760	5,760	5,760	5,760	830	5,003	3,702	2,700	1,256	2,479	1,500	2,496	2,274	1,175	2,336	1,928	4,649
5	Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24)	kW	315	327	324	324	323	300	330	271	177	150	146	243	180	156	148	161	291
6	Available Electricity Generation = 3.2.5 ÷ 100	MW/100 MT	0.52	0.54	0.54	0.54	3.73	0.58	0.86	0.96	1.35	0.58	0.93	1.28	0.76	1.27	0.61	0.88	0.48

5 BIOGAS FLARE:																			
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
1	Operation Time	hr/day	2.08	1.57	2.63	2.46	1.32	0.00	0.05	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	3.67
2	Biogas Flared	Nm ³ /day	469	353	592	553	296	0	11	0	0	0	0	44	0	0	0	0.00	825

6 DIGESTERS:																			
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
5.1 Digester-I: Front End																			
1	pH	---	7.80	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08
2	TSS	ppm	0	0	0	11,751	0	0	0	0	0	0	0	0	0	0	0	0	14,353
3	VSS	ppm	0	0	0	8,746	0	0	0	0	0	0	0	0	0	0	0	0	10,248
4	Total Alkalinity	ppm as CaCO ₃	9,075	0	0	3,879	0	0	0	0	0	0	0	0	0	0	0	0	3,416
5	VFA	ppm as HAC	2,415	0	0	1,071	0	0	0	0	0	0	0	0	0	0	0	0	1,144
5.2 Digester-I: Back End																			
1	pH	---	7.82	0.00	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.09
2	TSS	ppm	0	0	0	11,715	0	0	0	0	0	0	0	0	0	0	0	0	14,606
3	VSS	ppm	0	0	0	8,524	0	0	0	0	0	0	0	0	0	0	0	0	10,120
4	Total Alkalinity	ppm as CaCO ₃	9,175	0	0	3,929	0	0	0	0	0	0	0	0	0	0	0	0	3,473
5	VFA	ppm as HAC	2,415	0	0	1,011	0	0	0	0	0	0	0	0	0	0	0	0	1,047
5.3 Buffer Tank: Front End																			
1	pH	---	7.77	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07
2	TSS	ppm	0	0	0	12,412	0	0	0	0	0	0	0	0	0	0	0	0	8,673
3	VSS	ppm	0	0	0	9,109	0	0	0	0	0	0	0	0	0	0	0	0	10,446
4	Total Alkalinity	ppm as CaCO ₃	8,850	0	0	3,804	0	0	0	0	0	0	0	0	0	0	0	0	3,416
5	VFA	ppm as HAC	2,581	0	0	1,142	0	0	0	0	0	0	0	0	0	0	0	0	1,127
5.4 Buffer Tank: Back End																			
1	pH	---	7.80	0.00	0.00	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08
2	TSS	ppm	0	0	0	11,820	0	0	0	0	0	0	0	0	0	0	0	0	14,620
3	VSS	ppm	0	0	0	8,795	0	0	0	0	0	0	0	0	0	0	0	0	10,418
4	Total Alkalinity	ppm as CaCO ₃	9,000	0	0	3,829	0	0	0	0	0	0	0	0	0	0	0	0	3,438
5	VFA	ppm as HAC	2,498	0	0	1,106	0	0	0	0	0	0	0	0	0	0	0	0	1,068
5.5 Digester-II: Front End																			
1	pH	---	7.74	0.00	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06
2	TSS	ppm	0	0	0	11,953	0	0	0	0	0	0	0	0	0	0	0	0	14,550
3	VSS	ppm	0	0	0	8,645	0	0	0	0	0	0	0	0	0	0	0	0	10,396
4	Total Alkalinity	ppm as CaCO ₃	8,975	0	0	3,829	0	0	0	0	0	0	0	0	0	0	0	0	3,371
5	VFA	ppm as HAC	2,664	0	0	1,142	0	0	0	0	0	0	0	0	0	0	0	0	1,146
5.6 Digester-II: Back End																			
1	pH	---	7.76	0.00	0.00	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08
2	TSS	ppm	0	0	0	11,658	0	0	0	0	0	0	0	0	0	0	0	0	14,617
3	VSS	ppm	0	0	0	8,579	0	0	0	0	0	0	0	0	0	0	0	0	10,371
4	Total Alkalinity	ppm as CaCO ₃	9,125	0	0	3,904	0	0	0	0	0	0	0	0	0	0	0	0	3,441
5	VFA	ppm as HAC	2,498	0	0	1,059	0	0	0	0	0	0	0	0	0	0	0	0	1,075

7 EFFLUENT TREATMENT PLANT:																			
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
6.1 Raw Effluent Quality:																			
1	Flow	m ³ /day	26.36	70.00	40.00	51.96	50.00	29.00	27.00	0.00	0.00	0.00	23.00	18.43	24.00	37.00	0.00	20.33	41.83
2	pH	---	6.81	6.75	7.24	6.77	7.49	6.64	6.62	6.47	6.59	6.08	6.61	6.64	7.33	7.41	7.15	7.30	6.98
3	Biochemical Oxygen Demand (BOD ₅)	mg/l	1,866	1,572	1,787	1,833	1,676	2,190	1,700	2,130	1,591	2,229	2,384	1,986	1,741	1,857	1,809	1,802	1,930
4	Chemical Oxygen Demand (COD)	mg/l	5,355	4,968	4,557	5,342	5,765	6,351	3,876	6,390	3,596	6,375	5,054	5,344	3,534	4,902	6,078	4,838	5,442
5	Total Suspended Solids (TSS)	mg/l	3,956	3,223	3,771	3,562	4,056	5,147	3,893	3,557	3,262	5,015	5,126	4,294	3,378	3,863	2,732	3,324	3,795
6	Total Dissolve Solids (TDS)	mg/l	1,763	1,775	1,643	1,603	1,703	1,453	1,369	1,415	1,367	1,531	1,465	1,472	1,553	1,652	1,712	1,639	1,575

100 TPD Municipal Solid Waste (MSW) Facility at Calangute, North Goa

Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
6.2 Treated Effluent Quality:																			
1	pH	---	7.29	7.31	6.51	6.99	6.50	6.95	6.51	7.05	7.26	6.52	7.11	6.84	6.54	6.56	6.65	6.58	6.83
2	Biochemical Oxygen Demand (BOD5)	mg/l	8	6	6	7	8	8	7	9	8	9	8	8	7	7	7	7	7
3	Chemical Oxygen Demand (COD)	mg/l	88	87	59	77	54	58	90	85	61	52	55	65	58	67	62	62	68
4	Total Suspended Solids (TSS)	mg/l	9	7	7	8	9	9	8	10	9	10	9	9	8	8	8	8	8
5	Total Dissolve Solids (TDS)	mg/l	1,939	1,917	1,774	1,719	1,754	1,569	1,396	1,457	1,435	1,531	1,553	1,528	1,646	1,817	1,866	1,776	1,671

8 HOUSEKEEPING:																			
Sr. No.	Description	Unit	19-Mar	20-Mar	21-Mar	Weekly Average 15-21	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	Weekly Average 22-28	29-Mar	30-Mar	31-Mar	Weekly Average 29-31	Monthly Average 1-31
1	Hygienic Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
2	Cleanliness	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
3	Manpower Deployed	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
4	Safety Norms	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
5	Treatment Methodology	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted
6	Storage Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted