

**Monthly Performance Report
(HWT-NG100-MPR-47-R0)**

**June 2020
(From 01/06/2020 to 30/06/2020)**

**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 June 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	More than 10 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. Tetra Pack 5. Hard Plastic 6. PET 7. Mixed Plastic 8. Styrofoam + Thermocol 9. Cloth + Rags + Textile 10. Leather + Rexine + Rubber 11. Paper + Cardboard 12. Coconut Shells
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 89.62 TPD . Quantum of Inert is 0.93 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 emergency and not as a routine practice.	Biogas is being flared strictly, only under emergency and not as a routine practice. The average running time of Biogas Flaring System is 0.00 hours/day .

Sr. No.	Parameter	Performance Standard As per Schedule – 7	Actual Performance at Plant (Monthly Average)										
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 520 1435 730"> <tr> <td>pH</td> <td>7.00</td> </tr> <tr> <td>BOD</td> <td>7 mg/l</td> </tr> <tr> <td>COD</td> <td>75 mg/l</td> </tr> <tr> <td>TSS</td> <td>8 mg/l</td> </tr> <tr> <td>TDS</td> <td>1,589 mg/l</td> </tr> </table>	pH	7.00	BOD	7 mg/l	COD	75 mg/l	TSS	8 mg/l	TDS	1,589 mg/l
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TDS	1,589 mg/l												
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. 										

Table – 1: Summary of Average Results for June 2020

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

#	Plant Performance Data: June 2020		
Sr. No.	Content	Month	Signature
1	Input Waste Composition	From 01.06.2020 To 30.06.2020	
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-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun		
1.1 Input Waste:																								
1	Type 1: Dry Waste	TPD	56.99	56.96	54.69	50.50	60.76	49.56	34.46	51.99	55.02%	56.27	61.98	51.45	59.35	42.80	53.23	40.89	52.28	55.34%	56.87	50.39	55.29	48.12
2	Type 2: Wet Waste	TPD	38.69	38.67	35.10	39.70	42.61	44.70	35.24	39.24	41.53%	40.23	42.05	37.21	35.66	43.38	41.48	31.45	38.78	41.05%	38.87	37.42	37.83	20.28
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	1.73	3.19	0.81	2.22	6.68	3.36	4.80	3.26	3.45%	7.20	1.91	6.41	1.81	1.15	3.49	1.95	3.42	3.62%	4.21	0.03	3.07	1.32
5	Total.....(1)+(2)+(3)+(4)	TPD	97.41	98.82	90.60	92.42	110.05	97.62	74.50	94.49	100.00%	103.70	105.94	95.07	96.82	87.33	98.20	74.29	94.48	100.00%	99.95	87.84	96.19	69.72

- # 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-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun		
1.2 Output Products:																								
1	Organic Fraction	TPD	40.23	40.88	38.88	41.04	44.80	43.43	34.30	40.51	42.87%	43.89	47.38	38.99	40.59	40.53	42.83	32.86	41.01	43.41%	41.86	40.30	41.35	26.34
2	Inorganic Fraction:																							
	Recyclables	TPD	6.73	7.33	6.39	6.28	7.92	7.23	5.10	6.71	7.10%	7.01	7.29	6.59	7.14	5.98	6.59	5.60	6.60	6.98%	7.02	6.38	7.01	4.92
	RDF	TPD	47.29	46.05	41.52	41.53	48.07	42.26	29.29	42.29	44.75%	44.21	45.47	34.00	44.64	36.69	43.82	26.40	39.32	41.62%	44.27	39.33	43.31	36.14
	Bulking Material	TPD	1.44	1.38	1.21	1.35	1.24	1.34	1.02	1.28	1.36%	1.39	1.48	1.08	1.12	1.25	1.47	0.88	1.24	1.31%	1.55	1.33	1.44	0.99
	Inert	TPD	0.00	0.00	1.78	0.00	1.34	0.00	0.00	0.45	0.47%	0.00	2.41	8.00	1.52	1.73	0.00	6.60	2.89	3.06%	1.04	0.46	0.00	0.00
3	Tree Waste	TPD	1.73	3.19	0.81	2.22	6.68	3.36	4.80	3.26	3.45%	7.20	1.91	6.41	1.81	1.15	3.49	1.95	3.42	3.62%	4.21	0.03	3.07	1.32
4	Total.....(1)+(2)+(3)	TPD	97.41	98.82	90.60	92.42	110.05	97.62	74.50	94.49	100%	103.70	105.94	95.07	96.82	87.33	98.20	74.29	94.48	100%	99.95	87.84	96.19	69.72

2 RECYCLABLES:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
1	Glass	Kg	115	96	135	126	114	123	70	111	116	156	115	95	112	104	101	114	96	114	121	89
2	Aluminum	Kg	48	86	72	90	72	57	56	69	97	94	80	48	78	57	51	72	96	53	84	48
3	Metal	Kg	182	191	171	171	207	189	118	176	145	198	160	143	172	142	137	157	163	140	140	103
4	Tetra Pack	Kg	57	77	72	72	93	47	49	67	97	62	71	57	52	95	43	68	57	53	93	68
5	Hard Plastic	Kg	172	163	108	126	155	104	118	135	135	104	133	152	138	133	145	134	96	158	168	123
6	PET	Kg	144	105	108	99	124	151	118	121	183	114	89	114	95	95	109	114	105	132	112	89
7	Mixed Plastic	Kg	5,961	6,541	5,657	5,502	7,091	6,504	4,531	5,970	6,137	6,481	5,896	6,461	5,274	5,872	4,963	5,869	6,309	5,690	6,230	4,350
8	Thermocol + Styrofoam	Kg	48	67	72	90	62	57	35	62	97	83	44	67	60	95	51	71	96	44	65	55
9	Cloth + Rags + Textiles	Kg	727	947	871	884	672	707	481	756	569	791	833	523	577	559	557	630	708	729	689	472
10	Leather + Rexine + Rubber	Kg	612	507	476	559	941	537	376	573	685	884	736	684	457	796	420	666	680	817	484	424
11	Paper + Cardboard	Kg	584	631	629	559	672	603	453	590	618	624	585	608	534	616	434	574	622	615	624	424
12	Coconut	Kg	852	746	584	794	569	735	565	692	772	853	496	513	715	852	449	664	929	720	819	568
13	Total	Kg	9,502	10,157	8,955	9,072	10,772	9,814	6,970	9,320	9,651	10,444	9,238	9,465	8,264	9,416	7,460	9,134	9,957	9,265	9,629	6,813
		TPD	9.50	10.16	8.96	9.07	10.77	9.81	6.97	9.32	9.65	10.44	9.24	9.47	8.26	9.42	7.46	9.13	9.96	9.27	9.63	6.81

- # 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-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
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	97.41	98.82	90.60	92.42	110.05	97.62	74.50	94.49	103.70	105.94	95.07	96.82	87.33	98.20	74.29	94.48	99.95	87.84	96.19	69.72
3	Inert Fraction	TPD	0.00	0.00	1.78	0.00	1.34	0.00	0.00	0.45	0.00	2.41	8.00	1.52	1.73	0.00	6.60	2.89	1.04	0.46	0.00	0.00
4	% of Total Input Waste.....(3) ÷ (2)	%	0.00%	0.00%	1.96%	0.00%	1.22%	0.00%	0.00%	0.45%	0.00%	2.27%	8.41%	1.57%	1.98%	0.00%	8.88%	3.30%	1.04%	0.52%	0.00%	0.00%

4 ELECTRICITY GENERATION:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
3.1 Biogas Gensets:																						
1	Biogas Genset-I: Running Time	hr/day	23.15	17.11	23.20	19.50	17.02	15.94	20.95	19.55	22.30	19.00	16.44	15.15	15.75	17.88	21.05	18.22	14.62	17.82	18.56	10.15
2	Biogas Genset-I: Biogas Consumption	Nm ³ /day	1,667	1,522	1,732	1,488	1,412	1,339	1,560	1,531	1,684	1,410	1,578	1,144	1,527	1,538	1,738	1,517	1,389	1,533	1,726	727
3	Biogas Genset-I: Energy Generation	kW.hr/day	2,360	2,177	2,640	2,220	2,189	2,183	2,310	2,297	2,510	2,140	2,273	1,710	2,169	2,353	2,750	2,272	2,236	2,422	2,486	1,060
4	Biogas Genset-II: Running Time	hr/day	23.55	18.28	14.60	22.25	13.31	20.63	19.30	18.85	16.75	18.20	10.20	16.30	17.77	15.61	11.95	15.25	13.96	14.54	10.70	19.90
5	Biogas Genset-II: Biogas Consumption	Nm ³ /day	1,602	1,609	1,141	1,662	1,065	1,485	1,372	1,420	1,094	1,297	867	1,159	1,315	1,155	855	1,106	1,061	1,177	920	1,549
6	Biogas Genset-II: Energy Generation	kW.hr/day	2,440	2,703	2,000	2,770	1,981	2,807	2,200	2,414	1,610	2,120	1,587	1,880	2,341	1,767	1,420	1,818	1,644	1,778	1,454	2,730
7	Total Biogas Consumption = (2)+(5)	Nm ³ /day	3,269	3,131	2,873	3,150	2,477	2,824	2,932	2,951	2,778	2,707	2,446	2,303	2,843	2,693	2,593	2,623	2,449	2,710	2,647	2,277
8	Total Energy Generation = (3)+(6)	kW.hr/day	4,800	4,880	4,640	4,990	4,170	4,990	4,510	4,711	4,120	4,260	3,860	3,590	4,510	4,120	4,170	4,090	3,880	4,200	3,940	3,790

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

Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
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	0.40	0.40	0.40
2	Biodegradable Waste = 1.2.2	TPD	38.69	38.67	35.10	39.70	42.61	44.70	35.24	39.24	40.23	42.05	37.21	35.66	43.38	41.48	31.45	38.78	38.87	37.42	37.83	20.28
3	Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100	kW	0.15	0.15	0.14	0.16	0.17	0.18	0.14	0.16	0.17	0.15	0.14	0.17	0.17	0.17	0.13	0.16	0.15	0.15	0.08	0.08
4	Guaranteed Electricity Generation = 3.2.3 x 24 x 1000	kW.hr/day	3,714	3,712	3,370	3,811	4,091	4,291	3,383	3,767	3,862	4,037	3,572	3,423	4,164	3,982	3,019	3,723	3,732	3,592	3,632	1,947
5	Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24)	kW	200	203	193	208	174	208	188	196	172	178	161	150	188	172	174	170	162	175	164	158
6	Available Electricity Generation = 3.2.5 ÷ 100	MW/100 MT	0.52	0.53	0.55	0.52	0.41	0.47	0.53	0.50	0.43	0.42	0.43	0.42	0.43	0.41	0.55	0.44	0.42	0.47	0.43	0.78

5 BIOGAS FLARE:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
1	Operation Time	hr/day	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
2	Biogas Flared	Nm ³ /day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

6 DIGESTERS:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
5.1 Digester-I: Front End																						
1	pH	---	7.74	7.70		7.72	7.75	7.72	7.64	7.71	7.67	7.75		7.69	7.71	7.76	7.72	7.72	7.66	7.73		7.73
2	TSS	ppm	34,320	31,758		32,875	31,612	32,540	32,632	32,623	33,109	31,305		32,288	32,706	31,612	31,351	32,062	31,305	34,042		34,991
3	VSS	ppm	24,445	21,785		23,457	21,345	21,304	20,137	22,079	20,095	19,824		21,815	22,887	21,345	24,672	21,773	19,795	22,444		21,043
4	Total Alkalinity	ppm as CaCO ₃	7,975	7,950		7,975	7,800	8,000	8,025	7,954	8,050	8,125		7,950	7,850	7,950	8,150	8,013	7,800	8,075		8,050
5	VFA	ppm as HAC	1,253	1,170		1,253	1,170	1,336	1,253	1,239	1,336	1,419		1,087	1,004	1,502	1,170	1,253	1,087	1,004		1,170
5.2 Digester-I: Back End																						
1	pH	---	7.73	7.73		7.73	7.72	7.74	7.76	7.74	7.77	7.73		7.74	7.74	7.75	7.74	7.75	7.67	7.74		7.77
2	TSS	ppm	34,042	31,546		34,991	31,502	32,457	32,559	32,850	33,092	31,305		30,205	34,981	31,612	34,320	32,586	30,870	33,328		36,176
3	VSS	ppm	22,444	21,546		21,043	21,345	21,457	20,152	21,331	22,064	21,560		20,819	19,609	21,345	24,445	21,640	19,984	21,517		22,284
4	Total Alkalinity	ppm as CaCO ₃	8,075	8,150		8,050	8,000	8,150	8,075	8,083	7,950	8,175		8,075	8,000	7,800	7,975	7,996	7,950	7,975		7,850
5	VFA	ppm as HAC	1,004	1,419		1,170	1,336	1,253	1,336	1,253	1,253	1,170		1,004	838	1,170	1,253	1,115	921	838		1,004
5.3 Buffer Tank: Front End																						
1	pH	---	7.82	7.83		7.80	7.81	7.85	7.85	7.83	7.78	7.77		7.82	7.80	7.78	7.85	7.80	7.73	7.80		7.83
2	TSS	ppm	31,782	32,415		31,278	30,278	32,533	30,187	31,412	29,654	32,018		28,451	29,720	29,682	30,423	29,991	30,454	29,835		32,563
3	VSS	ppm	20,794	21,475		22,041	21,387	21,790	20,148	21,273	21,674	20,788		19,676	20,927	19,654	20,831	20,592	20,539	20,743		22,320
4	Total Alkalinity	ppm as CaCO ₃	9,050	9,075		9,200	9,250	8,800	8,825	8,033	8,800	9,050		9,075	9,200	9,075	9,000	9,033	8,825	9,150		9,300
5	VFA	ppm as HAC	755	755		672	838	1,004	1,004	838	921	921		589	589	921	921	810	838	589		672
5.4 Buffer Tank: Back End																						
1	pH	---	7.81	7.80		7.75	7.78	7.77	7.81	7.79	7.82	7.79		7.87	7.82	7.80	7.76	7.81	7.74	7.82		7.87
2	TSS	ppm	32,500	29,835		31,345	29,654	28,964	30,454	30,459	31,065	32,053		24,986	25,818	33,950	30,749	29,770	30,840	30,015		32,554
3	VSS	ppm	19,658	20,743		19,675	21,674	19,378	18,963	20,015	20,478	21,579		17,488	17,980	16,389	19,684	18,933	21,047	18,365		22,145
4	Total Alkalinity	ppm as CaCO ₃	9,175	9,150		9,050	8,800	9,025	9,075	9,046	9,100	9,150		9,050	9,100	8,750	8,850	9,000	8,925	9,250		9,225
5	VFA	ppm as HAC	755	589		1,004	921	589	672	755	921	672		672	589	672	921	741	755	506		672
5.5 Digester-II: Front End																						
1	pH	---	7.74	7.70		7.74	7.72	7.68	7.65	7.71	7.68	7.69		7.72	7.61	7.65	7.67	7.67	7.60	7.66		7.69
2	TSS	ppm	40,521	37,561		36,189	35,684	37,425	34,258	36,940	35,412	34,621		32,375	34,560	34,632	39,471	35,179	34,939	42,528		37,722
3	VSS	ppm	25,418	26,354		23,579	26,347	22,364	25,934	24,999	26,988	24,599		22,072	24,568	23,967	31,421	25,603	23,561	30,654		22,425
4	Total Alkalinity	ppm as CaCO ₃	7,850	7,900		7,850	7,775	7,775	7,675	7,804	7,700	7,800		7,825	7,675	7,700	7,675	7,729	7,650	7,725		7,825
5	VFA	ppm as HAC	1,170	1,668		1,585	1,170	1,336	1,253	1,364	1,336	1,336		1,170	1,253	1,336	1,253	1,281	1,336	1,170		1,170
5.6 Digester-II: Back End																						
1	pH	---	7.71	7.74		7.68	7.69	7.72	7.73	7.71	7.70	7.75		7.77	7.65	7.68	7.64	7.70	7.63	7.69		7.71
2	TSS	ppm	36,890	37,458		37,722	35,684	41,533	34,785	37,345	34,652	34,650		34,370	33,346	37,882	37,600	35,417	34,973	36,685		33,489
3	VSS	ppm	26,854	30,912		26,532	25,461	25,633	24,865	26,710	24,511	22,410		23,379	24,312	24,568	26,988	24,361	26,770	28,029		22,151
4	Total Alkalinity	ppm as CaCO ₃	7,850	7,900		7,800	7,750	7,650	7,775	7,788	7,850	7,700		7,900	7,750	7,850	7,725	7,796	7,850	7,825		7,975
5	VFA	ppm as HAC	1,253	1,502		1,253	1,170	1,419	1,087	1,281	1,253	1,170		1,087	1,170	1,170	1,668	1,253	1,087	1,004		921

7 EFFLUENT TREATMENT PLANT:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
6.1 Raw Effluent Quality:																						
1	Flow	m ³ /day	40.77	51.99		57.00	55.44	57.86	63.74	54.47	51.74	59.44		54.52	56.11	50.34	62.17	55.72	61.46	49.98		49.68
2	pH	---	6.78	7.17		7.79	7.58	6.92	7.04	7.21	7.63	7.97		7.46	7.63	7.32	7.52	7.59	7.56	6.47		7.47
3	Biochemical Oxygen Demand (BOD ₅)	mg/l	1,974	2,072		2,267	1,590	1,632	2,416	1,992	2,491	1,569		2,338	2,429	1,725	2,094	2,108	2,353	2,357		1,922
4	Chemical Oxygen Demand (COD)	mg/l	6,297	7,169		6,280	4,897	3,509	6,572	5,787	6,601	4,378		5,518	8,356	5,606	6,743	6,200	8,212	7,189		3,940
5	Total Suspended Solids (TSS)	mg/l	3,948	5,014		3,990	2,433	3,460	5,074	3,987	6,178	2,401		4,489	5,174	2,777	5,172	4,365	4,894	5,209		3,921
6	Total Dissolve Solids (TDS)	mg/l	1,505	1,681		1,561	1,587	1,306	1,305	1,491	1,438	1,550		1,317	1,472	1,543	1,741	1,510	1,345	1,603		1,667

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

Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
6.2 Treated Effluent Quality:																						
1	pH	---	7.41	6.69		6.50	7.11	7.37	7.37	7.08	6.66	7.24		7.16	6.79	6.62	7.18	6.94	6.88	6.63		6.88
2	Biochemical Oxygen Demand (BOD5)	mg/l	7	7		9	5	7	6	7	9	5		6	9	9	9	8	8	5		7
3	Chemical Oxygen Demand (COD)	mg/l	68	63		81	72	83	89	76	82	73		73	87	74	91	80	75	86		70
4	Total Suspended Solids (TSS)	mg/l	8	8		10	6	8	7	8	10	6		7	10	10	10	9	9	6		8
5	Total Dissolve Solids (TDS)	mg/l	1,640	1,815		1,608	1,682	1,332	1,436	1,586	1,510	1,659		1,449	1,516	1,605	1,828	1,595	1,399	1,635		1,750

8 HOUSEKEEPING:																						
Sr. No.	Description	Unit	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	Weekly Average 1-7	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	Weekly Average 8-14	15-Jun	16-Jun	17-Jun	18-Jun
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-Jun	20-Jun	21-Jun	Weekly Average 15-21		22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28		29-Jun	30-Jun	Weekly Average 29-30		Monthly Average 1-30	
1.1 Input Waste:																						
1	Type 1: Dry Waste	TPD	40.01	56.16	35.08	48.85	57.17%	60.46	51.36	47.89	33.02	31.53	27.56	19.91	38.82	46.94%	32.48	33.35	32.92	34.86%	46.98	52.42%
2	Type 2: Wet Waste	TPD	37.64	35.92	29.47	33.92	39.70%	25.54	39.55	36.83	22.84	38.47	31.82	33.99	32.72	39.57%	38.08	36.10	37.09	39.28%	36.23	40.42%
3	Type 3: Mixed Waste	TPD	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	12.65	13.65	13.68	15.18	7.88	9.53%	17.97	21.43	19.70	20.86%	3.15	3.52%
4	Type 4: Tree Waste	TPD	1.99	3.82	4.31	2.68	3.13%	4.67	3.62	3.22	3.29	3.99	3.64	0.50	3.28	3.96%	4.49	4.96	4.73	5.00%	3.26	3.64%
5	Total.....(1)+(2)+(3)+(4)	TPD	79.64	95.90	68.86	85.44	100.00%	90.67	94.53	87.94	71.80	87.64	76.70	69.58	82.69	100.00%	93.02	95.84	94.43	100.00%	89.62	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-Jun	20-Jun	21-Jun	Weekly Average 15-21		22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28		29-Jun	30-Jun	Weekly Average 29-30		Monthly Average 1-30	
1.2 Output Products:																						
1	Organic Fraction	TPD	38.31	40.95	29.83	36.99	43.29%	32.98	41.92	37.60	30.92	39.93	35.84	36.27	36.49	44.13%	44.21	45.08	44.65	47.28%	39.14	43.68%
2	Inorganic Fraction:																					
	Recyclables	TPD	5.92	6.72	4.91	6.13	7.17%	6.59	7.04	5.89	4.82	6.34	5.66	4.94	5.90	7.13%	6.46	6.47	6.47	6.85%	6.34	7.08%
	RDF	TPD	32.00	42.87	28.66	38.08	44.57%	45.15	40.22	39.61	31.28	36.15	29.74	26.75	35.56	43.00%	36.54	38.19	37.37	39.57%	38.72	43.20%
	Bulking Material	TPD	1.26	1.14	0.84	1.22	1.43%	1.28	1.18	1.19	1.10	1.23	1.07	1.12	1.17	1.41%	1.32	1.14	1.23	1.30%	1.23	1.37%
	Inert	TPD	0.17	0.40	0.32	0.34	0.40%	0.00	0.55	0.43	0.39	0.00	0.75	0.00	0.30	0.37%	0.00	0.00	0.00	0.00%	0.93	1.04%
3	Tree Waste	TPD	1.99	3.82	4.31	2.68	3.13%	4.67	3.62	3.22	3.29	3.99	3.64	0.50	3.28	3.96%	4.49	4.96	4.73	5.00%	3.26	3.64%
4	Total.....(1)+(2)+(3)	TPD	79.64	95.90	68.86	85.44	100%	90.67	94.53	87.94	71.80	87.64	76.70	69.58	82.69	100%	93.02	95.84	94.43	100%	89.62	100%

2 RECYCLABLES:																						
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21		22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28		29-Jun	30-Jun	Weekly Average 29-30		Monthly Average 1-30	
1	Glass	Kg	93	138	97	107		129	100	127	103	117	110	104	113		89	136	113		111	
2	Aluminum	Kg	39	92	58	67		43	45	59	55	59	58	35	51		80	82	81		66	
3	Metal	Kg	116	175	103	134		138	173	152	123	134	117	104	134		133	154	144		150	
4	Tetra Pack	Kg	54	64	52	63		86	55	76	62	50	73	48	64		62	55	59		65	
5	Hard Plastic	Kg	148	129	77	128		146	145	161	110	167	124	76	133		151	91	121		132	
6	PET	Kg	116	129	84	110		112	155	110	103	109	132	83	115		151	164	158		118	
7	Mixed Plastic	Kg	5,303	5,912	4,383	5,454		5,848	6,318	5,134	4,213	5,621	5,005	4,421	5,223		5,737	5,707	5,722		5,635	
8	Thermocol + Styrofoam	Kg	47	83	52	63		86	45	68	55	84	44	69	64		62	82	72		66	
9	Cloth + Rags + Textiles	Kg	676	856	381	644		705	809	525	404	694	453	345	562		806	809	808		659	
10	Leather + Rexine + Rubber	Kg	443	921	555	618		740	573	737	404	510	679	539	597		797	473	635		615	
11	Paper + Cardboard	Kg	481	580	426	539		516	545	593	452	552	497	435	513		540	545	543		553	
12	Coconut	Kg	777	562	413	684		765	636	602	644	678	570	684	654		779	591	685		674	
13	Total	Kg	8,293	9,641	6,681	8,611		9,314	9,599	8,344	6,728	8,775	7,862	6,943	8,224		9,387	8,889	9,138		8,843	
		TPD	8.29	9.64	6.68	8.61		9.31	9.60	8.34	6.73	8.78	7.86	6.94	8.22		9.39	8.89	9.14		8.84	

- # 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-Jun	20-Jun	21-Jun	Weekly Average 15-21		22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28		29-Jun	30-Jun	Weekly Average 29-30		Monthly Average 1-30	
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	79.64	95.90	68.86	85.44		90.67	94.53	87.94	71.80	87.64	76.70	69.58	82.69		93.02	95.84	94.43		89.62	
3	Inert Fraction	TPD	0.17	0.40	0.32	0.34		0.00	0.55	0.43	0.39	0.00	0.75	0.00	0.30		0.00	0.00	0.00		0.93	
4	% of Total Input Waste.....(3) ÷ (2)	%	0.21%	0.42%	0.46%	0.38%		0.00%	0.58%	0.49%	0.54%	0.00%	0.98%	0.00%	0.37%		0.00%	0.00%	0.00%		1.04%	

4 ELECTRICITY GENERATION:																						
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21		22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28		29-Jun	30-Jun	Weekly Average 29-30		Monthly Average 1-30	
3.1 Biogas Gensets:																						
1	Biogas Genset-I: Running Time	hr/day	18.17	8.70	9.60	13.95		15.41	17.76	16.57	1.60	1.05	0.00	1.80	7.74		19.68	14.14	16.91		15.00	
2	Biogas Genset-I: Biogas Consumption	Nm ³ /day	1,599	682	742	1,200		1,294	1,580	1,574	152	80	0	148	690		1,495	1,371	1,433		1,248	
3	Biogas Genset-I: Energy Generation	kW.hr/day	2,462	1,060	1,080	1,829		2,045	2,481	2,392	250	120	0	230	1,074.00		2,288	2,290	2,289		1,896	
4	Biogas Genset-II: Running Time	hr/day	9.22	18.90	19.50	15.25		15.22	11.26	13.91	23.50	23.05	23.70	24.00	19.23		13.32	12.19	12.76		16.85	
5	Biogas Genset-II: Biogas Consumption	Nm ³ /day	710	1,551	1,584	1,222		1,172	844	988	2,087	1,990	2,086	2,133	1,614		1,172	963	1,067		1,322	
6	Biogas Genset-II: Energy Generation	kW.hr/day	1,328	2,820	2,840	2,085		1,875	1,469	1,738	3,880	3,770	3,890	4,050	2,953		1,992	1,810	1,901		2,290	
7	Total Biogas Consumption = (2)+(5)	Nm ³ /day	2,309	2,233	2,326	2,422		2,466	2,425	2,561	2,238	2,070	2,086	2,281	2,304		2,667	2,334	2,501		2,570	
8	Total Energy Generation = (3)+(6)	kW.hr/day	3,790	3,880	3,920	3,914		3,920	3,950	4,130	4,130	3,890	3,890	4,280	4,027		4,280	4,100	4,190		4,186	

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

Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
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
2	Biodegradable Waste = 1.2.2	TPD	37.64	35.92	29.47	33.92	25.54	39.55	36.83	22.84	38.47	31.82	33.99	32.72	38.08	36.10	37.09	36.23
3	Guaranteed Electricity Generation = (3.2.2 x 3.2.1) ÷ 100	kW	0.15	0.14	0.12	0.14	0.10	0.16	0.15	0.09	0.15	0.13	0.14	0.13	0.15	0.14	0.15	0.15
4	Guaranteed Electricity Generation = 3.2.3 x 24 x 1000	kW.hr/day	3,613	3,448	2,829	3,256	2,452	3,797	3,536	2,193	3,693	3,055	3,263	3,141	3,656	3,466	3,561	3,478
5	Available Electricity Generation = (A2 ÷ 24) + (A4 ÷ 24)	kW	158	162	163	163	163	165	172	172	162	162	178	168	178	171	175	174
6	Available Electricity Generation = 3.2.5 ÷ 100	MW/100 MT	0.42	0.45	0.55	0.50	0.64	0.42	0.47	0.75	0.42	0.51	0.52	0.53	0.47	0.47	0.47	0.48

5 BIOGAS FLARE:																		
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
1	Operation Time	hr/day	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
2	Biogas Flared	Nm ³ /day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

6 DIGESTERS:																		
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
5.1 Digester-I: Front End																		
1	pH	---	7.74	7.73	7.77	7.73	7.74	7.76		7.70	7.70	7.75	7.71	7.73	7.69	7.73	7.72	7.72
2	TSS	ppm	33,188	33,965	32,875	33,394	34,320	32,559		31,287	34,040	32,666	31,305	32,696	33,109	32,706	32,496	32,654
3	VSS	ppm	24,672	20,320	21,304	21,596	24,445	20,152		26,311	23,411	20,811	22,444	22,929	21,304	22,887	22,075	22,090
4	Total Alkalinity	ppm as CaCO ₃	8,150	7,950	7,800	7,971	7,975	8,075		8,025	8,000	8,125	7,950	8,025	7,975	7,925	8,000	7,993
5	VFA	ppm as HAC	1,087	1,170	1,502	1,170	1,253	1,336		1,502	1,502	1,336	1,419	1,391	1,502	1,585	1,447	1,300
5.2 Digester-I: Back End																		
1	pH	---	7.74	7.78	7.75	7.74	7.77	7.77		7.72	7.73	7.69	7.71	7.73	7.74	7.77	7.73	7.74
2	TSS	ppm	32,748	32,679	31,305	32,851	31,292	35,171		35,020	31,985	32,718	32,706	33,149	31,612	33,092	32,655	32,818
3	VSS	ppm	24,491	23,816	19,824	21,986	21,276	23,753		24,966	21,284	21,603	22,887	22,628	19,609	21,457	21,637	21,845
4	Total Alkalinity	ppm as CaCO ₃	7,975	8,075	8,125	7,992	8,175	8,225		8,175	8,150	8,200	7,850	8,129	8,025	8,125	8,066	8,053
5	VFA	ppm as HAC	1,087	1,087	1,419	1,059	1,170	1,170		1,336	1,253	1,170	1,004	1,184	1,253	1,336	1,189	1,160
5.3 Buffer Tank: Front End																		
1	pH	---	7.82	7.81	7.79	7.80	7.82	7.74		7.78	7.78	7.85	7.84	7.80	7.83	7.80	7.82	7.81
2	TSS	ppm	33,018	31,782	29,631	31,214	33,950	29,786		31,053	32,210	32,533	30,749	31,714	31,034	30,047	31,215	24,828
3	VSS	ppm	22,020	20,789	18,592	20,834	20,815	19,451		20,231	22,345	21,790	18,637	20,545	19,645	20,344	20,192	20,687
4	Total Alkalinity	ppm as CaCO ₃	9,175	9,250	9,050	9,125	9,200	9,000		9,050	9,050	8,800	8,850	8,992	9,000	9,075	8,943	8,825
5	VFA	ppm as HAC	838	672	838	741	755	838		755	921	1,004	838	852	838	921	891	826
5.4 Buffer Tank: Back End																		
1	pH	---	7.85	7.87	7.73	7.81	7.78	7.78		7.80	7.81	7.76	7.77	7.78	7.79	7.82	7.78	7.80
2	TSS	ppm	30,823	31,932	33,018	31,530	33,018	31,568		29,727	32,996	30,273	32,533	31,686	30,047	30,187	30,945	30,878
3	VSS	ppm	19,907	20,873	18,965	20,217	22,875	27,559		19,345	22,419	20,525	22,345	22,511	19,907	31,278	23,313	20,998
4	Total Alkalinity	ppm as CaCO ₃	9,100	9,100	8,850	9,075	9,075	9,100		8,950	8,850	8,850	9,025	8,975	9,100	8,925	8,975	9,014
5	VFA	ppm as HAC	672	755	838	700	672	755		838	755	1,004	1,004	838	838	672	871	781
5.5 Digester-II: Front End																		
1	pH	---	7.66	7.69	7.69	7.67	7.68	7.70		7.69	7.66	7.72	7.67	7.69	7.65	7.64	7.67	7.68
2	TSS	ppm	40,639	38,897	35,182	38,318	34,018	35,684		37,600	35,337	41,533	36,237	36,735	35,841	36,284	37,326	36,899
3	VSS	ppm	29,913	25,306	24,875	26,122	24,863	22,357		25,388	23,100	27,790	23,567	24,511	25,965	31,524	26,671	25,581
4	Total Alkalinity	ppm as CaCO ₃	7,975	7,850	7,900	7,821	7,925	7,850		7,825	7,825	7,850	7,900	7,863	7,825	7,725	7,833	7,810
5	VFA	ppm as HAC	1,170	1,170	1,336	1,225	1,170	1,502		1,668	1,751	1,336	1,366	1,466	1,585	1,668	1,484	1,364
5.6 Digester-II: Back End																		
1	pH	---	7.69	7.74	7.68	7.69	7.70	7.73		7.74	7.70	7.70	7.68	7.71	7.71	7.69	7.70	7.70
2	TSS	ppm	35,351	37,816	33,489	35,301	39,720	36,457		32,761	35,763	38,920	34,652	36,379	35,351	34,973	36,055	36,099
3	VSS	ppm	21,252	22,679	24,582	24,244	28,905	24,581		21,793	23,368	26,811	25,388	25,141	25,965	22,789	25,219	25,135
4	Total Alkalinity	ppm as CaCO ₃	7,925	7,925	7,850	7,892	7,900	7,925		7,975	7,925	7,925	7,825	7,913	8,175	7,950	7,958	7,869
5	VFA	ppm as HAC	1,004	1,004	1,170	1,032	1,087	1,253		1,419	1,419	1,253	1,336	1,295	1,336	1,502	1,344	1,241

7 EFFLUENT TREATMENT PLANT:																		
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
6.1 Raw Effluent Quality:																		
1	Flow	m ³ /day	17.47	30.87	58.49	44.66	60.61	60.65		42.22	28.51	47.71	52.33	48.67	44.97	20.38	32.68	47.24
2	pH	---	7.93	7.53	7.83	7.47	6.17	7.35		7.49	6.38	7.85	6.26	6.92	6.51	6.18	6.35	7.11
3	Biochemical Oxygen Demand (BOD ₅)	mg/l	1,724	1,829	2,048	2,039	2,054	2,443		2,310	1,539	1,768	2,370	2,081	2,058	1,643	1,851	2,014
4	Chemical Oxygen Demand (COD)	mg/l	4,086	4,810	5,202	5,573	5,833	5,155		6,768	4,756	5,693	7,797	6,000	6,627	4,009	5,318	5,776
5	Total Suspended Solids (TSS)	mg/l	3,724	2,926	3,768	4,074	3,430	3,738		4,967	3,355	3,147	4,195	3,805	3,951	3,187	3,569	3,960
6	Total Dissolve Solids (TDS)	mg/l	1,310	1,607	1,446	1,496	1,499	1,466		1,385	1,579	1,319	1,308	1,426	1,728	1,534	1,631	1,511

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

Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
6.2 Treated Effluent Quality:																		
1	pH	---	6.94	6.66	6.93	6.82	7.12	7.45		6.91	7.12	7.46	7.02	7.18	6.69	7.23	6.96	7.00
2	Biochemical Oxygen Demand (BOD5)	mg/l	5	7	6	6	5	7		8	9	6	5	7	8	6	7	7
3	Chemical Oxygen Demand (COD)	mg/l	92	69	61	76	80	84		84	64	69	80	77	75	55	65	75
4	Total Suspended Solids (TSS)	mg/l	6	8	7	7	6	8		9	10	7	6	8	9	7	8	8
5	Total Dissolve Solids (TDS)	mg/l	1,389	1,752	1,475	1,567	1,604	1,466		1,413	1,658	1,359	1,308	1,468	1,884	1,580	1,732	1,589

8 HOUSEKEEPING:																		
Sr. No.	Description	Unit	19-Jun	20-Jun	21-Jun	Weekly Average 15-21	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Weekly Average 22-28	29-Jun	30-Jun	Weekly Average 29-30	Monthly Average 1-30
1	Hygienic Conditions	---	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
3	Manpower Deployed	---	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
5	Treatment Methodology	---	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