

**Monthly Performance Report
(HWT-NG100-MPR-10-R0)**

**May 2017
(From 01/05/2017 to 31/05/2017)**

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

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

Submitted To
**Department of Science & Technology
(DS&T)
Goa State Infrastructural Development
Corporation Limited (GSIDC)**

Table – 1
Summary of Overall Average Results for May 2017
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. Metal Articles & Cans 3. Tetrapacks 4. Paper / Cardboard 5. Plastic Film 6. Hard Plastics 7. PET Bottles 8. Styrofoam & Thermocol 9. Cloth / Rags / Textile 10. Jute bags 11. Leather / Rubber / Rexine 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 <u>109.50 TPD</u> . Quantum of Inert is <u>5.03 TPD</u> 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 <u>0.53</u> MW/100 tons of Input Biodegradable Waste as received in the Facility (in TPD).

Sr. No.	Parameter	Performance Standard As per Schedule – 7	Actual Performance at Plant (Monthly Average)										
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 5.99 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="1036 688 1403 898"> <tbody> <tr> <td>pH</td> <td>6.98</td> </tr> <tr> <td>BOD</td> <td>7 mg/l</td> </tr> <tr> <td>COD</td> <td>64 mg/l</td> </tr> <tr> <td>TSS</td> <td>8 mg/l</td> </tr> <tr> <td>TDS</td> <td>1728 mg/l</td> </tr> </tbody> </table>	pH	6.98	BOD	7 mg/l	COD	64 mg/l	TSS	8 mg/l	TDS	1728 mg/l
pH	6.98												
BOD	7 mg/l												
COD	64 mg/l												
TSS	8 mg/l												
TDS	1728 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. 										

#	Plant Performance Data: May 2017		
Sr. No.	Content	Month	Signature
1	Input Waste Composition	May 2017 From 01.05.2017 To 31.05.2017	
2	Recyclables		
3	Electricity Generation		
4	Biogas Flare		
5	Effluent Treatment Plant		
6	Inert		
7	Housekeeping		

Sr. No.	Description	Unit	1-May	2-May	3-May	4-May	5-May	6-May	7-May	Weekly Average	8-May	9-May	10-May	11-May	12-May	13-May	14-May	Weekly Average
B	Electricity Generation:																	
1	As per Tender: Minimum electricity to be generated in the plant shall be 0.4 MW per per 100 tons of Input Biodegradable Waste as received in the Facility.																	
2	Biodegradable Waste.....1.B4	Tons	46.49	49.44	47.45	48.62	43.20	34.16	45.11	44.92	55.92	57.50	67.76	64.32	64.59	70.89	61.87	63.26
3	Electricity Generation required as per Tender.....0.4 x 1000 x B2/100	kWH	186	198	190	194	173	137	180	180	224	230	240	240	240	240	240	236
4	Electricity generated..... (A2/A1) + (A4/A3)	kWH	346	361	361	356	341	370	350	355	357	357	346	348	351	353	364	354
#	Surplus / Shortage	kWH	160	163	171	162	169	234	169		134	127	106	108	111	113	124	

4 BIOGAS FLARE:

Sr. No.	Description	Unit	1-May	2-May	3-May	4-May	5-May	6-May	7-May	Weekly Average	8-May	9-May	10-May	11-May	12-May	13-May	14-May	Weekly Average
2	Operation Time	hr/day	4.08	4.34	6.55	5.82	5.03	5.66	6.94	5.49	7.91	6.58	6.66	6.41	7.13	5.91	5.94	6.65

5 EFFLUENT TREATMENT PLANT:

Sr. No.	Parameter	Unit	1-May	2-May	3-May	4-May	5-May	6-May	7-May	Weekly Average	8-May	9-May	10-May	11-May	12-May	13-May	14-May	Weekly Average
A	Raw Effluent Quality:																	
1	Flow	m ³ /day	46.85	58.51	44.83	66.97	46.92	54.10	59.26	53.92	41.40	45.99	50.85	55.42	48.75	42.52	46.81	47.39
2	pH	---	6.62	6.86	7.36	6.86	6.88	6.53	7.49	6.94	6.93	6.56	7.01	7.88	7.47	6.05	7.63	7.08
3	Biochemical Oxygen Demand (BOD5)	mg/l	2,132	2,467	2,341	1,720	2,354	2,091	1,575	2,097	1,936	2,209	2,250	1,917	1,963	1,669	1,539	1,926
4	Chemical Oxygen Demand (COD)	mg/l	5,117	5,033	6,695	4,455	5,038	7,109	5,198	5,521	6,447	6,804	7,808	5,636	5,222	4,006	5,109	5,862
5	Total Suspended Solids (TSS)	mg/l	4,264	5,921	5,244	3,612	5,061	4,475	3,418	4,571	4,801	5,147	4,635	3,240	4,024	3,088	2,878	3,973
6	Total Dissolve Solids (TDS)	mg/l	1,622	1,618	1,735	1,541	1,569	1,618	1,716	1,631	1,601	1,585	1,542	1,799	1,520	1,751	1,783	1,654
B	Treated Effluent Quality:																	
1	pH	---	7.03	6.85	7.5	7.42	7.14	6.94	6.65	7.08	7.44	7.44	7.29	6.58	6.88	6.77	6.86	7.04
2	Biochemical Oxygen Demand (BOD5)	mg/l	7	7	8	7	9	5	6	7	9	7	7	7	9	7	5	7
3	Chemical Oxygen Demand (COD)	mg/l	49	65	65	53	49	64	77	60	81	84	69	75	44	64	64	69
1	Total Suspended Solids (TSS)	mg/l	8	8	9	8	10	6	7	8	10	8	8	8	10	8	6	8
2	Total Dissolve Solids (TDS)	mg/l	1,784	1,618	1,839	1,541	1,569	1,715	1,750	1,688	1,681	1,601	1,542	1,889	1,611	1,804	1,854	1,712

6 DISPOSAL OF INERT:

Sr. No.	Description	Unit	1-May	2-May	3-May	4-May	5-May	6-May	7-May	Weekly Average	8-May	9-May	10-May	11-May	12-May	13-May	14-May	Weekly Average
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	98.59	112.67	96.97	98.95	90.15	78.13	90.32	95.11	111.04	108.35	117.14	112.95	113.01	117.19	111.55	113.03
3	Inert Fraction	Kg	7,200	6,070	4,920	4,200	3,230	4,430	3,920	4,853	5,390	7,953	7,157	6,870	3,440	3,580	3,740	5,447
		TPD	7.20	6.07	4.92	4.20	3.23	4.43	3.92	4.85	5.39	7.95	7.16	6.87	3.44	3.58	3.74	5.45
4	% of Total Input Waste.....3/2	%	7.30%	5.39%	5.07%	4.24%	3.58%	5.67%	4.34%	5.09%	4.85%	7.34%	6.11%	6.08%	3.04%	3.05%	3.35%	4.83%

7 HOUSEKEEPING:

Sr. No.	Description	Unit	1-May	2-May	3-May	4-May	5-May	6-May	7-May	Weekly Average	8-May	9-May	10-May	11-May	12-May	13-May	14-May	Weekly Average
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

Sr. No.	Description	Unit	15-May	16-May	17-May	18-May	19-May	20-May	21-May	Weekly Average	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Weekly Average
B	Electricity Generation:																	
1	<u>As per Tender:</u> Minimum electricity to be generated in the plant shall be 0.4 MW per per 100 tons of Input Biodegradable Waste as received in the Facility.																	
2	Biodegradable Waste.....1.B4	Tons	58.02	62.11	61.95	49.71	48.30	51.08	43.90	53.58	56.29	43.63	49.76	42.43	56.23	47.04	50.57	49.42
3	Electricity Generation required as per Tender.....0.4 x 1000 x B2/100	kWH	232	240	240	199	193	204	176	212	225	175	199	170	225	188	202	198
4	Electricity generated..... (A2/A1) + (A4/A3)	kWH	365	349	358	349	365	367	349	357	348	356	339	361	337	353	344	348
#	Surplus / Shortage	kWH	133	109	118	150	172	162	173		123	182	139	191	112	165	142	

4 BIOGAS FLARE:

Sr. No.	Description	Unit	15-May	16-May	17-May	18-May	19-May	20-May	21-May	Weekly Average	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Weekly Average
2	Operation Time	hr/day	4.46	6.39	4.20	6.55	5.13	7.86	7.98	6.08	6.16	5.08	6.23	7.39	4.19	7.91	6.46	6.20

5 EFFLUENT TREATMENT PLANT:

Sr. No.	Parameter	Unit	15-May	16-May	17-May	18-May	19-May	20-May	21-May	Weekly Average	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Weekly Average
A	Raw Effluent Quality:																	
1	Flow	m ³ /day	47.58	41.97	68.69	67.69	66.55	63.72	43.89	57.16	64.66	53.43	69.21	61.60	60.31	62.79	53.95	60.85
2	pH	---	6.18	7.2	7.88	7.69	7.93	6.16	6.9	7.13	6.56	6.42	7.27	7.05	6.78	7.58	6.02	6.81
3	Biochemical Oxygen Demand (BOD5)	mg/l	2,081	1,739	1,525	1,942	2,008	1,914	2,159	1,910	2,208	1,712	1,708	2,052	2,349	1,729	1,786	1,935
4	Chemical Oxygen Demand (COD)	mg/l	6,701	4,348	3,081	6,642	7,028	6,393	7,405	5,943	7,573	4,537	4,851	6,218	7,822	4,807	5,644	5,922
5	Total Suspended Solids (TSS)	mg/l	3,621	3,948	3,065	3,767	4,779	2,871	5,203	3,893	5,189	2,636	3,040	3,160	4,933	3,164	4,376	3,785
6	Total Dissolve Solids (TDS)	mg/l	1,642	1,522	1,765	1,596	1,681	1,540	1,517	1,609	1,618	1,772	1,653	1,619	1,567	1,733	1,769	1,676
B	Treated Effluent Quality:																	
1	pH	---	7.13	7.01	6.87	6.5	6.53	7.4	6.62	6.87	6.86	6.77	7.31	6.81	6.94	6.97	6.71	6.91
2	Biochemical Oxygen Demand (BOD5)	mg/l	8	6	9	9	7	9	7	8	8	7	7	7	8	6	8	7
3	Chemical Oxygen Demand (COD)	mg/l	40	57	43	89	43	81	66	60	70	71	83	53	83	76	43	68
1	Total Suspended Solids (TSS)	mg/l	9	7	10	10	8	10	8	9	9	8	8	8	9	7	9	8
2	Total Dissolve Solids (TDS)	mg/l	1,773	1,568	1,853	1,692	1,715	1,632	1,578	1,687	1,634	1,861	1,719	1,668	1,661	1,906	1,893	1,763

6 DISPOSAL OF INERT:

Sr. No.	Description	Unit	15-May	16-May	17-May	18-May	19-May	20-May	21-May	Weekly Average	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Weekly Average
1	<u>As per Tender:</u> Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility.																	
2	Input Waste	TPD	120.10	125.06	109.14	96.72	100.65	103.22	89.72	106.37	107.88	97.33	102.79	94.87	112.77	101.61	96.81	102.01
3	Inert Fraction	Kg	4,010	4,160	4,010	5,890	4,006	7,442	6,523	5,149	6,645	5,022	3,050	1,860	8,413	2,370	5,286	4,664
		TPD	4.01	4.16	4.01	5.89	4.01	7.44	6.52	5.15	6.65	5.02	3.05	1.86	8.41	2.37	5.29	4.66
4	% of Total Input Waste.....3/2	%	3.34%	3.33%	3.67%	6.09%	3.98%	7.21%	7.27%	4.98%	6.16%	5.16%	2.97%	1.96%	7.46%	2.33%	5.46%	4.50%

7 HOUSEKEEPING:

Sr. No.	Description	Unit	15-May	16-May	17-May	18-May	19-May	20-May	21-May	Weekly Average	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Weekly Average
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

1 INPUT WASTE COMPOSITION:

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average		Monthly Average	
A	Input Waste:								
1	Dry Waste	TPD	2.08	10.85	6.73	6.55	0.05	3.13	2.73%
2	Wet Waste	TPD	34.09	29.98	31.02	31.70	0.24	21.05	18.69%
3	Mixed Waste	TPD	90.18	103.98	83.68	92.61	0.71	85.02	78.31%
4	Mulched Tree waste	TPD	0.00	0.29	0.00	0.10	0.00	0.29	0.28%
5	Total.....1+2+3+4	TPD	126.35	145.10	121.43	130.96	100.00%	109.50	100.00%
B	Input Waste Composition:								
1	Organic / Bio degradable Fraction	65.00%	71.42	74.59	65.58	70.53	53.86%	56.34	51.18%
2	Inorganic / Non-recyclable Fraction (RDF)		38.64	45.78	31.94	38.79	29.62%	34.16	31.44%
3	Recyclables	14.00%	13.78	19.50	16.59	16.62	12.69%	13.97	12.75%
	Glass	0.50%	0.06	0.09	0.10	0.08	0.06%	0.08	0.07%
	Metal	0.50%	0.48	0.65	0.58	0.57	0.44%	0.47	0.43%
	Paper / Cardboard / Tetrapack	4.00%	2.51	4.18	2.88	3.19	2.44%	2.51	2.29%
	Mixed Plastic, Bottles, Cups, Food Packets, Coated Plastics	6.00%	4.99	8.36	7.31	6.89	5.26%	5.61	5.12%
	Thermocoal / Styrofoam	1.00%	0.08	0.07	0.10	0.08	0.06%	0.09	0.08%
	Cloth / Rags / Textiles	1.50%	2.56	2.80	2.11	2.49	1.90%	2.19	2.01%
	Rubber Items	0.50%	0.33	0.67	0.34	0.45	0.34%	0.40	0.36%
	Coconut		2.77	2.68	3.17	2.87	2.19%	2.62	2.40%
4	Inert	10.00%	2.51	5.22	7.32	5.02	3.83%	5.03	4.63%
5	Mulched Tree Waste	11.00%	0.00	0.29	0.00				
	Total.....1+2+3+4+5	100.00%					100.00%		100.00%

2 RECYCLABLES:

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average		Monthly Average	
A	Recyclables:								
1	Glass	Kg	63	87	97	82		77	
2	Metal	Kg	480	653	583	572		466	
3	Tetrapack	Kg	108	130	138	125		117	
4	Paper / Cardboard	Kg	2,406	4,049	2,740	3,065		2,397	
	Total.....3+4	Kg	2,514	4,179	2,878	3,190		2,513	
5	Plastic Films	Kg	4,497	7,204	6,564	6,088		4,887	
6	Hard Plastic	Kg	170	777	468	472		382	
7	Pet	Kg	324	376	278	326		344	
	Total.....5+6+7	Kg	4,991	8,357	7,310	6,886		5,613	
8	Thermocal	Kg	76	73	97	82		86	
9	Cloth / Rags / Textile	Kg	1,826	2,128	1,758	1,904		1,669	
10	Jute Bags	Kg	739	672	355	589		525	
	Total.....9+10	Kg	2,565	2,800	2,113	2,493		2,194	
11	Leather / Rubber / Rexine	Kg	329	667	340	445		398	
12	Coconut	Kg	2,767	2,684	3,169	2,873		2,620	
13	Total	Kg	13,785	19,500	16,587	16,624		13,967	
		TPD	13.79	19.50	16.59	16.62		13.97	

3 ELECTRICITY GENERATION:

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average		Monthly Average	
A	Biogas Gensets:								
1	Biogas Genset-I: Running Time	hr	21.80	20.74	21.29	21.28		20.17	
2	Biogas Genset-I: Energy Generation	kW.hr	3,853	3,881	3,882	3,872		3,585	
3	Biogas Genset-II: Running Time	hr	14.32	13.83	15.16	14.44		17.17	
4	Biogas Genset-II: Energy Generation	kW.hr	2,463	2,328	2,807	2,533		3,033	
5	Total.....2+4	kW.hr	6,316	6,209	6,689	6,405		6,618	

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average	Monthly Average
B	Electricity Generation:						
1	<u>As per Tender:</u> Minimum electricity to be generated in the plant shall be 0.4 MW per per 100 tons of Input Biodegradable Waste as received in the Facility.						
2	Biodegradable Waste.....1.B4	Tons	71.42	74.59	65.58	70.53	56.34
3	Electricity Generation required as per Tender.....0.4 x 1000 x B2/100	kWH	240	240	240	240	213
4	Electricity generated..... (A2/A1) + (A4/A3)	kWH	349	355	367	357	354
#	Surplus / Shortage	kWH	109	115	127		

4 BIOGAS FLARE:

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average	Monthly Average
2	Operation Time	hr/day	5.59	5.50	5.55	5.55	5.99

5 EFFLUENT TREATMENT PLANT:

Sr. No.	Parameter	Unit	29-May	30-May	31-May	Weekly Average	Monthly Average
A	Raw Effluent Quality:						
1	Flow	m ³ /day	54.93	53.65	65.89	58.16	55.49
2	pH	---	7.36	7.73	6.8	7.30	7.05
3	Biochemical Oxygen Demand (BOD5)	mg/l	1,549	1,530	2,423	1,834	1,940
4	Chemical Oxygen Demand (COD)	mg/l	3,361	4,590	6,954	4,968	5,643
5	Total Suspended Solids (TSS)	mg/l	3,625	2,632	4,458	3,572	3,959
6	Total Dissolve Solids (TDS)	mg/l	1,669	1,645	1,775	1,696	1,653
B	Treated Effluent Quality:						
1	pH	---	6.75	7.02	7.19	6.99	6.98
2	Biochemical Oxygen Demand (BOD5)	mg/l	7	6	6	6	7
3	Chemical Oxygen Demand (COD)	mg/l	64	67	57	63	64
1	Total Suspended Solids (TSS)	mg/l	8	7	7	7	8
2	Total Dissolve Solids (TDS)	mg/l	1,769	1,678	1,917	1,788	1,728

6 DISPOSAL OF INERT:

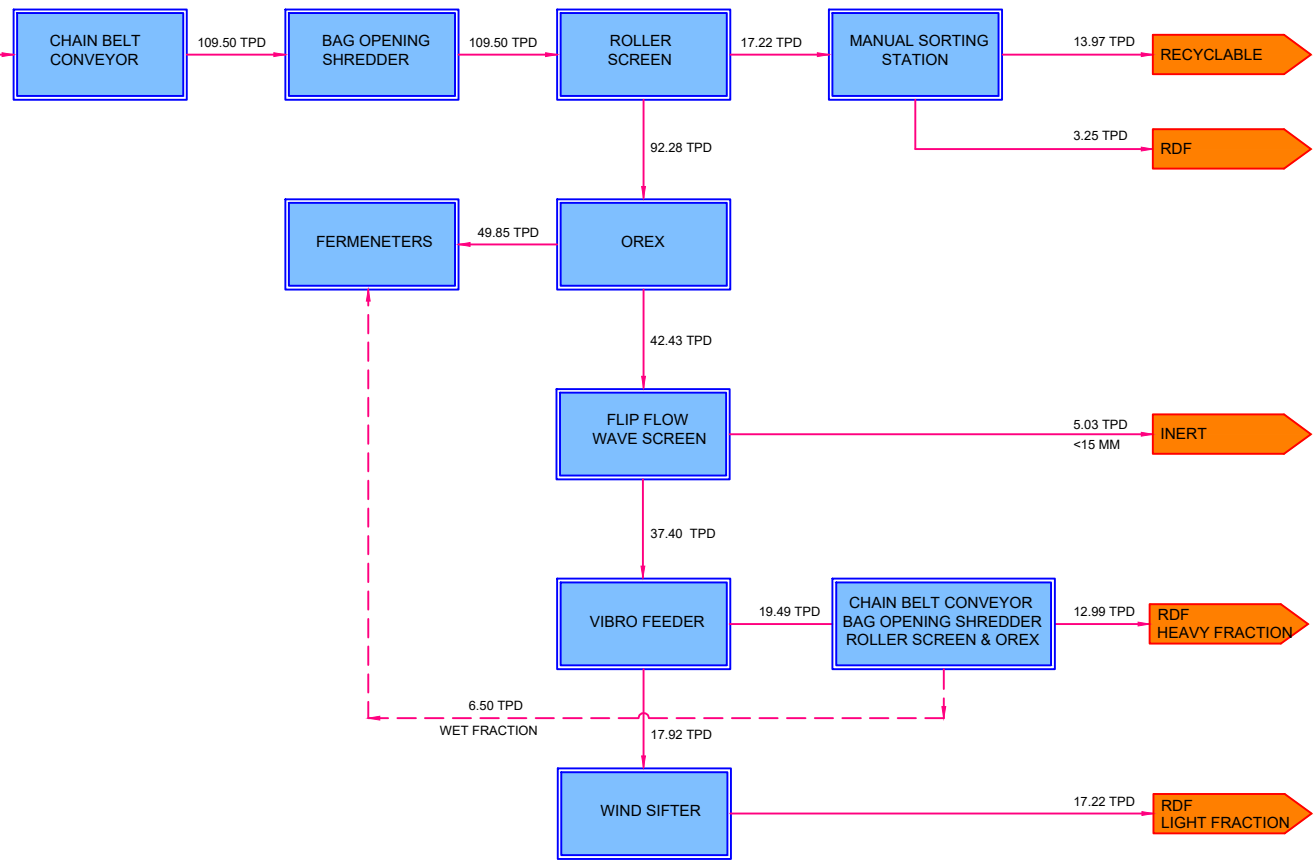
Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average	Monthly Average
1	<u>As per Tender:</u> Maximum 10% of Inerts of the Total Input Waste (excluding Mulched Tree Waste) as received in the Facility.						
2	Input Waste	TPD	126.35	145.10	121.43	130.96	109.50
3	Inert Fraction	Kg	2,510	5,224	7,322	5,019	5,026
		TPD	2.51	5.22	7.32	5.02	5.03
4	% of Total Input Waste.....3/2	%	1.99%	3.60%	6.03%	3.87%	4.66%

7 HOUSEKEEPING:

Sr. No.	Description	Unit	29-May	30-May	31-May	Weekly Average	Monthly Average
1	Hygienic Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted
2	Cleanliness	---	Accepted	Accepted	Accepted	Accepted	Accepted
3	Manpower Deployed	---	Accepted	Accepted	Accepted	Accepted	Accepted
4	Safety Norms	---	Accepted	Accepted	Accepted	Accepted	Accepted
5	Treatment Methodology	---	Accepted	Accepted	Accepted	Accepted	Accepted
6	Storage Conditions	---	Accepted	Accepted	Accepted	Accepted	Accepted

INPUT WASTE		
SR. NO.	NAME	WEIGHT (TPD)
1	RECYCLABLES	13.97
2	RDF	34.16
3	WET FRACTION	56.34
4	INERT	5.03
TOTAL		109.50

NUMBER OF RECYCLABLE FRACTIONS		
SR. NO.	NAME	WEIGHT (KG)
01	GLASS	77
02	METALS	466
03	TETRAPACK	117
04	PAPER/CARDBOARD	2397
05	PLASTIC FILM	4887
06	HARD PLASTIC	382
07	PET	344
08	THERMOCAL	86
09	CLOTH/RAGS/TEXTILE	1669
10	JUTE BAGS	525
11	LEATHER/RUBBER/REXINE	398
12	COCONUT	2620
TOTAL		13967



OWNER:	DEPARTMENT OF SCIENCE, TECHNOLOGY & ENVIRONMENT.
THE MANAGING ASSOCIATE:	GOA STATE INFRASTRUCTURE DEVELOPMENT LTD.
CONTRACTOR:	M/s HINDUSTAN WASTE TREATMENT PVT. LTD.

	NAME	SIGN	DATE
DRWN	CS		01/09/17
DSGN	SG		01/09/17
CHKD	SG		01/09/17
APPD	GK		01/09/17

TITLE :	ANNEXURE -1: MASS BALANCE MAY 2017 (01-05-2017 TO 31-05-2017)
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SCALE	NTS
SIZE	REV
A3	RO