

**Monthly Performance Report
(From 01/10/2016 to 31/10/2016)
(HWT-NG100-MPR-03-R0)**

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

Prepared By
Hindustan Waste Treatment Pvt. Ltd.

Submitted To:
**Government of Goa
Department of Science, Technology &
Environment**

#	Plant Performance Data: October 2016		
Sr. No.	Content	Month	Signature
1	Input Waste Composition	October 2016 From 01.10.2016 To 31.10.2016	
2	Recyclables Fractions		
3	Electricity Generation		
4	Flare Operation		
5	Effluent Treatment Plant		
6	Inert Fraction		
7	Housekeeping		

1 INPUT WASTE COMPOSITION:

#	Input Waste Composition	As per Tender	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average		8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average		
A	Input Waste:																					
1	Dry Waste	TPD	2.27	0.36	1.80	2.67	3.45	1.99	1.91	1.98	2.05	2.58%	0.24	0.00	0.62	0.00	0.78	1.40	1.44	0.64	0.72%	
2	Wet Waste	TPD	17.08	13.69	14.36	14.48	17.90	19.07	16.91	21.16	16.83	21.15%	20.67	13.79	14.21	14.54	14.70	14.69	23.06	16.52	18.69%	
3	Mixed Waste	TPD	57.54	59.18	57.37	62.20	63.72	61.26	56.41	53.75	58.93	74.05%	64.43	60.90	69.06	79.59	78.87	72.27	72.74	71.12	80.44%	
4	Mulched Tree waste	TPD	3.52	4.58	5.99	0.00	0.00	0.00	0.00	0.00	1.76	2.21%	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.13	0.15%	
5	Total.....1+2+3+4	TPD	80.41	77.81	79.52	79.35	85.07	82.32	75.23	76.89	79.58	100.00%	85.34	74.69	83.89	94.13	94.35	89.26	97.24	88.41	100.00%	
						201.08	201.08															
B	Input Waste Composition:																					
1	Organic / Bio degradable fraction	65.00%				97.86	98.01	43.33	39.31	42.18	40.09	50.38%	45.61	37.30	40.80	45.11	44.91	42.30	50.78	43.83	49.57%	
2	Inorganic / Non-recyclable Fraction (RDF)					68.70	64.83	22.24	19.22	19.35	24.29	30.53%	24.49	23.02	25.70	31.00	30.02	31.49	27.24	27.57	31.18%	
3	Recyclables	14.00%				22.93	23.50	10.26	10.68	8.97	9.54	11.99%	8.36	7.41	10.96	10.78	12.10	8.82	10.71	9.88	11.17%	
	Glass	0.50%				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%	
	Metal	0.50%				0.61	0.53	0.00	0.00	0.27	0.18	0.22%	0.00	0.00	0.35	0.00	0.00	0.25	0.00	0.09	0.10%	
	Paper / Cardboard / Tetrapack	4.00%				3.85	3.56	1.51	1.49	1.17	1.45	1.82%	1.45	1.01	1.48	1.35	1.72	1.49	1.38	1.41	1.60%	
	Mixed Plastic, Bottles, Cups, Food Packets, Coated Plastics	6.00%				9.84	9.32	5.22	5.63	4.42	4.30	5.41%	3.27	3.88	5.89	5.26	6.68	4.23	5.75	4.99	5.65%	
	Thermocoal / Styrofoam	1.00%				0.15	0.19	0.00	0.00	0.05	0.05	0.06%	0.00	0.00	0.00	0.09	0.00	0.00	0.04	0.02	0.02%	
	Cloth / Rags / Textiles	1.50%				3.20	3.64	1.32	1.82	1.38	1.42	1.78%	1.72	1.14	1.57	2.01	1.82	1.24	2.17	1.67	1.89%	
	Rubber Items	0.50%				0.59	0.73	0.40	0.36	0.38	0.31	0.39%	0.44	0.32	0.33	0.43	0.34	0.28	0.35	0.36	0.40%	
	Coconut					4.69	5.53	1.81	1.38	1.30	1.84	2.31%	1.48	1.06	1.34	1.64	1.54	1.33	1.02	1.34	1.52%	
4	Inert	10.00%				11.59	14.74	6.49	6.02	6.39	5.65	7.10%	6.88	6.96	6.43	7.24	7.32	6.65	8.51	7.14	8.08%	
5	Mulched Tree Waste	11.00%				0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.90	0.00			
	Total.....1+2+3+4+5	100.00%										100.00%									100.00%	

2 RECYCLABLES, RDF & INERT:

Sr. No.	Description	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average		8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average		
A	Recyclables:																					
1	Plastic Films	Kg				8,856	8,388	4,698	5,123	3,934	3,875		2,943	3,531	5,183	4,681	5,812	3,638	5,060		4,407	
2	Hard Plastic	Kg				443	373	157	225	221	177		196	194	295	210	334	381	403		288	
3	Pet	Kg				541	559	365	282	265	252		131	155	412	368	534	212	288		300	
	Total.....1+2+3	Kg				9,840	9,320	5,220	5,630	4,420	4,304		3,270	3,880	5,890	5,259	6,680	4,231	5,751		4,994	
4	Tetrapack	Kg				154	125	0	0	70	44		0	0	74	0	0	89	0		23	
5	Paper / Cardboard	Kg				3,696	3,435	1,510	1,490	1,100	1,404		1,450	1,010	1,406	1,350	1,720	1,401	1,380		1,388	
	Total.....4+5	Kg				3,850	3,560	1,510	1,490	1,170	1,448		1,450	1,010	1,480	1,350	1,720	1,490	1,380		1,411	
6	Cloth / Rags / Textile	Kg				2,496	3,130	1,003	1,456	1,132	1,152		1,359	821	1,225	1,608	1,511	980	1,649		1,308	
7	Jute Bags	Kg				704	510	317	364	248	268		361	319	345	402	309	260	521		360	
	Total.....6+7	Kg				3,200	3,640	1,320	1,820	1,380	1,420		1,720	1,140	1,570	2,010	1,820	1,240	2,170		1,667	
8	Glass	Kg				0	0	0	0	0	0		0	0	0	0	0	0	0		0	
9	Metal	Kg				610	530	0	0	270	176		0	0	350	0	0	250	0		86	
10	Leather / Rubber / Rexine	Kg				590	730	400	360	380	308		440	320	330	430	340	280	350		356	
11	Thermocal	Kg				150	190	0	0	50	49		0	0	0	90	0	0	40		19	
12	Coconut	Kg				4,690	5,530	1,810	1,380	1,300	1,839		1,480	1,060	1,340	1,640	1,540	1,330	1,020		1,344	
13	Total	Kg				22,930	23,500	10,260	10,680	8,970	9,543		8,360	7,410	10,960	10,779	12,100	8,821	10,711		9,877	
		TPD				22.93	23.50	10.26	10.68	8.97	9.54		8.36	7.41	10.96	10.78	12.10	8.82	10.71		9.88	

3 ELECTRICITY GENERATION:

Sr. No.	Parameter	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average		8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average	
A	Biogas Gensets:																				
1	Biogas Genset-I: Running Time	hr	22.19	3.80	2.80	20.15	21.70	12.40	10.50	18.60	16.67		12.65	10.90	12.85	18.35	16.10	17.80	12.55		14.46
2	Biogas Genset-I: Energy Generation	kW.hr	2,400	370	340	2,420	2,690	1,490	1,190	2,270	2,012		1,480	1,210	1,340	2,300	2,050	2,110	1,350		1,691
3	Biogas Genset-II: Running Time	hr	0.55	0.00	19.80	12.70	9.55	18.85	22.20	13.15	15.29		20.35	22.10	21.75	10.80	15.65	15.10	21.40		18.16
4	Biogas Genset-II: Energy Generation	kW.hr	90	0	1,790	1,400	1,090	2,170	2,440	1,540	1,728		2,210	2,400	2,210	1,250	1,800	1,740	2,250		1,980
5	Total.....2+4	kW.hr	2,490	370	2,130	3,820	3,780	3,660	3,630	3,810	3,740		3,690	3,610	3,550	3,550	3,850	3,850	3,600		3,671
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				97.86	98.01	43.33	39.31	42.18	64.14		45.61	37.30	40.80	45.11	44.91	42.30	50.78		43.83
3	Electricity Generation required as per Tender.....0.4 x 1000 x B2/100	kWH				391	392	173	157	169	257		182	149	163	180	180	169	203		175
4	Electricity generated..... (A2/A1) + (A4/A3)	kWH				230	238	235	223	239	233		226	220	206	241	242	234	213		226

4 BIOGAS FLARE:

Sr. No.	Parameter	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average		8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average	
1	As per Tender: The Biogas Flaring System shall strictly be used only in case of emergency and not as a routine practice.																				
2	Operation Time	hr/day	7.61	8.13	6.67	9.56	10.14	5.38	4.40	3.38	6.91		3.27	2.19	4.48	4.30	3.55	4.42	4.30		3.79

5 EFFLUENT TREATMENT PLANT:

Sr. No.	Parameter	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average
A Raw Effluent Quality:																			
1	Flow	m ³ /day				80.24	78.85	69.44	60.07	59.54	69.63	49.23	67.08	59.47	60.45	48.93	40.24	71.85	56.75
2	pH	---				8.07	7.96	8.14	8.00	8.01	8.04	7.94	8.41	7.74	7.54	8.42	7.8	7.53	7.91
3	Biochemical Oxygen Demand (BOD5)	mg/l				2,202	2,661	2,450	2,798	3,223	2,667	2,745	2,969	2,797	2,643	2,453	3,415	3,411	2,919
4	Chemical Oxygen Demand (COD)	mg/l				5,222	5,606	6,433	6,633	6,843	6,147	5,771	6,964	4,695	5,241	6,060	5,707	4,130	5,510
5	Total Suspended Solids (TSS)	mg/l				2,876	2,072	3,149	2,962	3,192	2,850	2,697	3,141	2,399	3,460	2,127	2,163	2,460	2,635
6	Total Dissolve Solids (TDS)	mg/l				2,097	1,877	1,828	2,081	1,866	1,950	1,808	1,898	1,812	1,861	2,007	1,976	1,984	1,907
B Treated Effluent Quality:																			
1	pH	---				7.88	7.91	7.95	7.99	7.9	7.93	7.36	7.97	7.59	7.29	7.94	7.48	7.77	7.63
2	Biochemical Oxygen Demand (BOD5)	mg/l				8	8	9	7	8	8	8	7	9	10	7	10	10	9
3	Chemical Oxygen Demand (COD)	mg/l				75	73	85	90	78	80	72	80	72	75	80	73	75	75
1	Total Suspended Solids (TSS)	mg/l				10	9	10	9	8	9	10	9	10	8	8	9	8	9
2	Total Dissolve Solids (TDS)	mg/l				1,900	1,955	1,880	2,060	1,814	1,922	1,824	1,969	2,067	2,002	1,947	1,875	1,974	1,951

6 DISPOSAL OF INERT:

Sr. No.	Parameter	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	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				201.08	201.08	82.32	75.23	76.89	127.32	85.34	74.69	83.89	94.13	94.35	89.26	97.24	88.41
3	Inert Fraction	Kg				11,590	14,740	6,490	6,020	6,390	9,046	6,880	6,960	6,430	7,240	7,320	6,650	8,510	7,141
		TPD				11.59	14.74	6.49	6.02	6.39	9.05	6.88	6.96	6.43	7.24	7.32	6.65	8.51	7.14
4	% of Total Input Waste.....3/2	%				5.76%	7.33%	7.88%	8.00%	8.31%	7.46%	8.06%	9.32%	7.66%	7.69%	7.76%	7.45%	8.75%	8.10%

7 HOUSEKEEPING:

Sr. No.	Parameter	Unit	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	Weekly Average	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	Weekly Average
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

Note:

The Plant was shut down due to Schedule Maintenance

- 1 Work during 30th September to 2nd October and restarted again on 3rd October.

The waste delivered during 30th September to 2nd

- 2 October was treated along with waste delivered on 3rd and 4th October.

1 INPUT WASTE COMPOSITION:

#	Input Waste Composition	As per Tender	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly Average				
A	Input Waste:																										
1	Dry Waste	TPD	0.00	0.00	0.59	1.96	2.17	0.43	1.92	1.01	1.13%	0.42	0.92	2.21	1.70	0.64	1.29	0.92	1.16	1.30%	0.39	1.10	0.27	0.59	0.01	1.09	1.29%
2	Wet Waste	TPD	23.06	21.28	22.69	27.56	21.52	26.20	29.22	24.50	27.37%	28.05	26.86	28.80	30.76	28.89	28.84	29.07	28.75	32.38%	25.51	23.07	26.15	24.91	0.30	22.30	25.88%
3	Mixed Waste	TPD	67.51	67.11	70.23	59.63	62.86	61.48	59.24	64.01	71.50%	58.03	55.33	65.29	59.89	57.19	56.58	59.93	58.89	66.32%	47.67	56.27	70.17	58.04	0.69	62.20	72.36%
4	Mulched Tree 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	0.00	0.38	0.47%
5	Total.....1+2+3+4	TPD	90.57	88.39	93.51	89.15	86.55	88.11	90.38	89.52	100.00%	86.50	83.11	96.30	92.35	86.72	86.71	89.92	88.80	100.00%	73.57	80.44	96.59	83.53	100.00%	85.97	100.00%
B	Input Waste Composition:																										
1	Organic / Bio degradable fraction	65.00%	48.11	46.25	48.89	49.87	45.10	49.32	51.56	48.44	54.11%	49.58	47.45	53.16	53.16	50.34	50.12	51.67	50.78	57.19%	43.20	44.01	52.33	46.51	55.68%	45.93	53.39%
2	Inorganic / Non-recyclable Fraction (RDF)		25.02	24.83	26.70	23.53	25.52	23.85	21.51	24.42	27.28%	20.19	21.14	26.66	21.65	19.24	20.09	21.22	21.46	24.16%	16.33	23.51	24.89	21.58	25.83%	23.86	27.80%
3	Recyclables	14.00%	11.25	11.42	10.25	9.15	10.18	8.69	11.51	10.35	11.56%	9.61	7.93	9.13	10.27	10.18	9.88	11.78	9.83	11.07%	9.35	10.59	12.93	10.96	13.12%	10.11	11.78%
	Glass	0.50%	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	0.00%	0.00	0.00%
	Metal	0.50%	0.00	0.38	0.00	0.00	0.34	0.00	0.00	0.10	0.11%	0.37	0.00	0.00	0.40	0.00	0.34	0.16	0.18%	0.00	0.00	0.44	0.15	0.18%	0.13	0.16%	
	Paper / Cardboard / Tetrapack	4.00%	1.62	1.69	1.55	1.67	1.33	1.13	1.48	1.50	1.67%	1.03	1.14	1.88	1.65	1.38	1.44	1.62	1.45	1.63%	1.15	1.38	1.78	1.44	1.72%	1.45	1.69%
	Mixed Plastic, Bottles, Cups, Food Packets, Coated Plastics	6.00%	5.58	6.04	5.49	3.92	5.02	4.06	6.46	5.22	5.84%	5.08	3.70	3.85	4.60	5.54	4.96	6.25	4.85	5.47%	4.32	5.40	5.41	5.04	6.04%	4.88	5.68%
	Thermocol / Styrofoam	1.00%	0.00	0.00	0.00	0.08	0.00	0.00	0.05	0.02	0.02%	0.00	0.00	0.06	0.00	0.00	0.09	0.02	0.02%	0.00	0.00	0.44	0.15	0.18%	0.05	0.06%	
	Cloth / Rags / Textiles	1.50%	2.10	1.83	1.52	1.41	1.55	1.72	1.95	1.73	1.93%	1.03	1.34	1.44	1.45	1.71	1.84	1.79	1.51	1.71%	1.77	1.81	1.91	1.83	2.19%	1.63	1.90%
	Rubber Items	0.50%	0.27	0.31	0.29	0.25	0.39	0.37	0.35	0.32	0.36%	0.45	0.37	0.38	0.47	0.30	0.24	0.27	0.35	0.40%	0.31	0.31	0.42	0.35	0.42%	0.34	0.39%
	Coconut		1.68	1.17	1.40	1.82	1.55	1.41	1.22	1.46	1.64%	1.65	1.38	1.52	1.70	1.25	1.40	1.42	1.47	1.66%	1.80	1.69	2.53	2.01	2.40%	1.63	1.91%
4	Inert	10.00%	6.19	5.89	7.67	6.60	5.75	6.25	5.80	6.31	7.05%	7.12	6.59	7.35	7.27	6.96	6.62	5.25	6.74	7.59%	4.69	2.33	6.44	4.49	5.37%	6.07	7.04%
5	Mulched Tree Waste	11.00%	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					
	Total.....1+2+3+4+5	100.00%								100.00%								100.00%						100.00%		100.00%	

2 RECYCLABLES, RDF & INERT:

Sr. No.	Description	Unit	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly Average
A	Recyclables:																						
1	Plastic Films	Kg	5,078	5,436	4,941	3,528	4,468	3,451	5,685	4,655	4,420	3,293	3,465	4,002	4,986	4,266	5,125	4,222	3,758	4,644	4,869	4,424	4,317
2	Hard Plastic	Kg	223	181	220	235	301	244	452	265	356	185	154	368	388	248	500	314	173	324	162	220	253
3	Pet	Kg	279	423	329	157	251	365	323	304	305	222	231	230	166	446	625	318	389	432	379	400	315
	Total.....1+2+3	Kg	5,580	6,040	5,490	3,920	5,020	4,060	6,460	5,224	5,081	3,700	3,850	4,600	5,540	4,960	6,250	4,854	4,320	5,400	5,410	5,043	4,884
4	Tetrapack	Kg	0	85	0	0	80	0	0	24	52	0	0	83	0	0	81	31	0	0	89	30	30
5	Paper / Cardboard	Kg	1,620	1,606	1,550	1,670	1,250	1,130	1,480	1,472	979	1,140	1,880	1,568	1,380	1,440	1,539	1,418	1,150	1,380	1,691	1,407	1,418
	Total.....4+5	Kg	1,620	1,691	1,550	1,670	1,330	1,130	1,480	1,496	1,031	1,140	1,880	1,651	1,380	1,440	1,620	1,449	1,150	1,380	1,780	1,437	1,448
6	Cloth / Rags / Textile	Kg	1,722	1,409	1,216	1,142	1,318	1,342	1,482	1,376	824	1,045	1,181	1,218	1,334	1,398	1,432	1,205	1,451	1,448	1,490	1,463	1,301
7	Jute Bags	Kg	378	421	304	268	233	378	468	350	206	295	259	232	376	442	358	310	319	362	420	367	331
	Total.....6+7	Kg	2,100	1,830	1,520	1,410	1,551	1,720	1,950	1,726	1,030	1,340	1,440	1,450	1,710	1,840	1,790	1,514	1,770	1,810	1,910	1,830	1,631
8	Glass	Kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Metal	Kg	0	380	0	0	340	0	0	103	370	0	0	400	0	0	340	159	0	0	440	147	134
10	Leather / Rubber / Rexine	Kg	270	310	290	250	390	370	350	319	450	370	380	470	300	240	270	354	310	310	420	347	337
11	Thermocol	Kg	0	0	0	80	0	0	50	19	0	0	60	0	0	90	0	21	0	0	440	147	51
12	Coconut	Kg	1,680	1,170	1,400	1,820	1,550	1,410	1,220	1,464	1,650	1,380	1,520	1,700	1,250	1,400	1,420	1,474	1,800	1,690	2,530	2,007	1,626
13	Total	Kg	11,250	11,421	10,250	9,150	10,181	8,690	11,510	10,350	9,612	7,930	9,130	10,271	10,180	9,880	11,780	9,826	9,350	10,590	12,930	10,957	10,111
		TPD	11.25	11.42	10.25	9.15	10.18	8.69	11.51	10.35	9.61	7.93	9.13	10.27	10.18	9.88	11.78	9.83	9.35	10.59	12.93	10.96	10.11

3 ELECTRICITY GENERATION:

Sr. No.	Parameter	Unit	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly Average
A	Biogas Gensets:																						
1	Biogas Genset-I: Running Time	hr	15.30	21.85	23.25	16.80	18.35	12.55	10.80	16.99	16.30	12.70	13.90	12.70	12.55	16.15	12.30	13.80	14.60	17.05	15.35	15.67	15.52
2	Biogas Genset-I: Energy Generation	kW.hr	1,790	2,700	2,830	1,750	1,880	1,240	1,150	1,906	1,840	1,280	1,320	1,530	1,470	1,680	1,570	1,527	1,490	1,680	1,650	1,607	1,749
3	Biogas Genset-II: Running Time	hr	16.50	10.40	8.75	17.35	15.90	19.70	22.45	15.86	16.60	21.15	22.25	21.50	18.60	19.45	20.80	20.05	19.25	18.10	18.55	18.63	17.60
4	Biogas Genset-II: Energy Generation	kW.hr	1,760	1,170	970	1,790	1,590	1,900	2,280	1,637	1,740	2,110	2,110										

Sr. No.	Parameter	Unit	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly Average
A Raw Effluent Quality:																							
1	Flow	m ³ /day	58.44	60.09	49.54	57.23	47.06	59.33	61.45	56.16	48.93	63.24	58.85	39.44	62.04	54.54	53.23	54.32	41.11	49.77	59.03	49.97	57.37
2	pH	---	8.08	8.05	7.91	8.34	7.84	8.45	8.23	8.13	8.4	7.69	8.3	8.23	7.84	7.99	8.22	8.10	8.41	7.61	8.11	8.04	8.04
3	Biochemical Oxygen Demand (BOD5)	mg/l	2,837	3,002	2,541	3,490	3,489	3,042	2,068	2,924	2,932	2,126	3,359	3,358	3,240	2,487	3,087	2,941	2,989	2,784	2,207	2,660	2,822
4	Chemical Oxygen Demand (COD)	mg/l	4,267	6,365	6,309	4,109	6,000	6,337	4,011	5,343	6,871	4,093	5,358	6,344	5,538	5,870	4,721	5,542	6,671	4,396	6,988	6,018	5,712
5	Total Suspended Solids (TSS)	mg/l	3,279	3,216	3,040	2,165	2,300	2,640	2,814	2,779	3,066	2,657	2,561	2,434	3,486	3,111	2,185	2,786	2,138	2,792	3,294	2,741	2,758
6	Total Dissolve Solids (TDS)	mg/l	1,936	1,899	1,901	1,887	2,063	1,865	1,843	1,913	2,080	1,829	1,951	2,069	1,865	1,816	2,018	1,947	1,955	1,897	2,068	1,973	1,938
B Treated Effluent Quality:																							
1	pH	---	7.6	7.58	7.03	7.59	7.31	7.69	7.53	7.48	7.54	7.57	7.56	7.92	7.95	7.3	7.15	7.57	7.32	7.55	7.97	7.61	7.64
2	Biochemical Oxygen Demand (BOD5)	mg/l	10	10	10	10	9	8	10	10	9	8	9	8	7	10	7	8	8	7	9	8	9
3	Chemical Oxygen Demand (COD)	mg/l	90	74	83	73	73	95	73	80	78	86	77	91	82	84	76	82	85	72	88	82	80
1	Total Suspended Solids (TSS)	mg/l	8	9	10	8	8	8	9	9	8	8	10	8	10	9	10	9	9	10	9	9	9
2	Total Dissolve Solids (TDS)	mg/l	2,099	1,824	2,028	1,992	1,876	1,924	1,947	1,956	1,818	1,884	2,043	2,095	1,816	1,886	2,022	1,938	1,924	1,987	1,984	1,965	1,946

6 DISPOSAL OF INERT:

Sr. No.	Parameter	Unit	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly 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	90.57	88.39	93.51	89.15	86.55	88.11	90.38	89.52	86.50	83.11	96.30	92.35	86.72	86.71	89.92	88.80	73.57	80.44	96.59	83.53	95.52
3	Inert Fraction	Kg	6,190	5,890	7,670	6,600	5,750	6,250	5,800	6,307	7,120	6,590	7,350	7,270	6,960	6,620	5,250	6,737	4,690	2,330	6,440	4,487	6,743.68
4	% of Total Input Waste.....3/2	%	6.83%	6.66%	8.20%	7.40%	6.64%	7.09%	6.42%	7.04%	8.23%	7.93%	7.63%	7.87%	8.03%	7.63%	5.84%	7.59%	6.37%	2.90%	6.67%	5.31%	7.10%

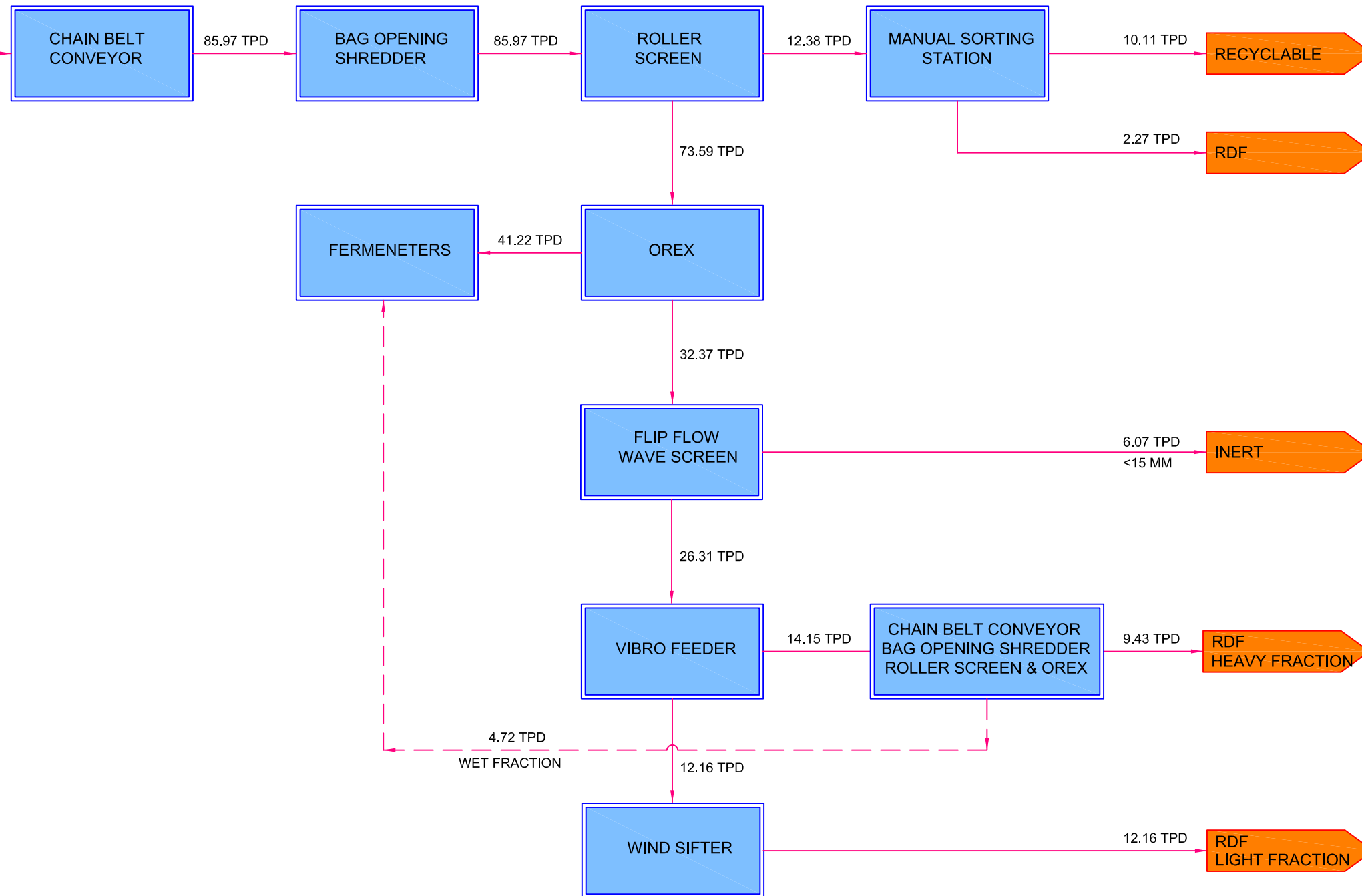
7 HOUSEKEEPING:

Sr. No.	Parameter	Unit	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	Weekly Average	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	Weekly Average	29-Oct	30-Oct	31-Oct	Weekly Average	Monthly Average
1	Hygienic Conditions	---	Accepted	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	Accepted
3	Manpower Deployed	---	Accepted	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	Accepted
5	Treatment Methodology	---	Accepted	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	Accepted

- # Note:
 The Plant was shut down due to Schedule Maintenance
 1 Work during 30th September to 2nd October and restarted again on 3rd October.
 The waste delivered during 30th September to 2nd October was treated along with waste delivered on 3rd and 4th October.

INPUT WASTE		
SR. NO.	NAME	WEIGHT (TPD)
1	RECYCLABLE	10.11
2	RDF	23.86
3	WET FRACTION	45.93
4	INERT	6.07
TOTAL		85.97

NUMBER OF RECYCLABLE FRACTIONS		
SR. NO.	NAME	WEIGHT (KG)
1	PLASTIC FILM / LDPE BAGS	4317
2	MULTI-LAYERED PLASTIC PACKS	0
3	HARD PLASTIC	253
4	PET	315
5	TETRAPACK	30
6	PAPER/CARDBOARD	1418
7	CLOTH/RAGS/TEXTILE	1301
8	JUTE BAGS	331
9	GLASS	0
10	METALS	134
11	FOOTWEAR	0
12	LEATHER/RUBBER/REXINE	337
13	THERMOCAL	51
14	COCONUT	1626
TOTAL		10111



ANNEXURE -1: MASS BALANCE AVERAGE 01-10-2016 TO 31-10-2016