

Annexure IV-Data Assessment of Solid Waste in the State of Goa, Bardez Taluka, North Goa

Sr.No.	V.P.	Area name	Area in sq kms	Wards	Population density /sq km	Population	Total Waste generated kg/d	Kg/capita/d	Dry actually collected in kg/d	Wet waste actually collected	Dry Waste Sorting centre	Material Recovery Facility	Organic Waste Composter	Training & Awareness		Garbage mgmt Funds in LaKhs	Waste Disposal committee	Waste Mgmt Plan	Personal Protection Equipment provided	Waste transporting vehicles	Leachate collection facility	Waste handling contractors	Bins	Black spots	Calibrated weighing devices	Form III	Form IV	legacy dump
														Public	Waste Collection Team													
1	V.P.	Arpora	5.77	7		4719	3500	0.7416826	1600	1800		No	NO	Yes	No	n.s.	Yes	Yes	Yes	Mazda Truck +TATA ACC+ Rickshaw	No	Yes-n.s	No	Yes-n.s	No	No	Yes	No
2		Nagoa	5.000	7	774.6	3873	727	0.1877802	1.2							n.s.												
3	V.P.	Assagao	9.6	7	816	7831	4490	0.5733623	2100	2390		No	No	Yes	No	n.s.	Yes	Yes	No	02 x Ace	No	Krishna Chowgule	No	7	No	NA	Yes	Nil
4	V.P.	Assonora	3.688	9	1282	4730	1189	0.2513742	21	Nil		No	No	Yes	Yes-oral	5.855	Yes	Yes	No	No	NA	Nil	No	12	No	NA	Yes	Nil
5	V.P.	Bastora	3.221	7		3943	210	0.0532589	160	Nil		No	No	yes	No	n.s.	Yes	No	Yes	tricycle	No	Bavish	No	3	No	No	Yes	Nil
6		Calvim	not submitted																									
7	V.P.	Camurlim	8.727	7	345.5	3015	753	0.2497512	10.0	Nil						n.s.							2					
8	V.P.	Canca	4.918	9	31382	154342	3000	0.0194374	3762	5615		No	No	Yes	Yes-oral	n.s.	Yes	No	No	n.s.	NA	Pradeip Naik	No	2	No	No	Yes	Nil
9		Verla																										
10	V.P.	Corjuem	not submitted																									
11	V.P.	Marra	9.001	7	868.2	7815	4000	0.512	1900	1100	-	Yes	No	Yes	Yes	1.2	No	Yes	Yes	Mini truck + Xenon	No	Nanu construc	Yes	Nil	No	Yes	Yes	Nil
12		Pilerne																										
13	V.P.	Moitem	not submitted																									
14	V.P.	Nachinola	2.441	7	1117	2725	796	0.292	40	nil	-	No	NO	No	No	0.5	Yes	No	Yes	Contractor vehicle	No	One no name provided	No	Nil	No	No	Yes	Nil
15	V.P.	Nadora	0.5096	5	2800	2800	700	0.250	20	Nil		No	No	Yes	No	n.s.	Yes	Yes	Yes	Nil	NA	Parshuram Naik	No	Nil	No	NA	Yes	Nil
16	V.P.	Nagoa	5	7	774.6	3873	727	0.188	1.2	nil	not submitted																	
17	V.P.	Siolim-Oxel	2.2600	7	1236.28	2794	55	0.020	30	Nil	-	Yes	No	Yes	No	n.s	Yes	Yes	Yes	Tata acc	No	Nil	No	2	No	NA	Yes	
18		Parra	not																									
19	V.P.	Pirna	9.900	7	308.1	3050	762	0.250	35	Nil	-	No	No	Yes	Yes-Oral	n.s.	Yes	Yes	Yes	Tricycle	No	Ramakant Naik	Yes	Nil	No	NA	Yes	Nil
20	V.P.	Olaulim	15.197	7	319.1	4850	1212	0.250	65	Nil	-	No	No	Yes	No	n.s	Yes	Yes	No	Tricycle	No	Bavish	No	Nil	No	NA	Yes	
21		Pomburpa																										
22	V.P.	Ponolem	not submitted																									

Annexure IV-Data Assessment of Solid Waste in the State of Goa, Bardez Taluka, North Goa

Sr.No.	V.P.	Area name	Area in sq kms	Wards	Population density /sq km	Population	Total Waste generated kg/d	Kg/capita/d	Dry actually collected in kg/d	Wet waste actually collected	Dry Waste Sorting centre	Material Recovery Facility	Organic Waste Composter	Training & Awareness		Garbage mgmt Funds in LaKhs	Waste Disposal committee	Waste Mgmt Plan	Personal Protection Equipment provided	Waste transporting vehicles	Leachate collection facility	Waste handling contractors	Bins	Black spots	Calibrated weighing devices	Form III	Form IV	legacy dump
														Public	Waste Collection Team													
23	V.P.	Revora	7.938	7	331.3	2630	658	0.250	900	Nil	-	No	No	No	Yes	n.s	Yes	Yes	Yes	n.s.	No	Umesh Rathod/Bavish	Yes only black	Nil	No	NA	Yes	Nil
24	V.P.	Sangolda	3.393	7	1305.4	4429	2050	0.463	1140	500	-	No	No	No	No	n.s	No	Yes	No	Own Ace	No	Nil	No	Nil	No	No	Yes	Nil
25	V.P.	Sircaim	3.7700	7	818	3083	770	0.250	10	nil	-	Yes	No	Yes	Yes-Oral	2	Yes	Yes	Yes	Nil-Manual	NA	Bavish	No	Nil	No	No	Yes	Nil
26	V.P.	Tivim	19.370	11	506.9	9818	2651	0.270	70	Nil	-	No	No	Yes	No	2.1	Yes	Yes	Yes	Hired Rickshaw	No	No	No	2	No	No	Yes	Nil
27	V.P.	Ucassaim	11.754	7	282.3	3318	830	0.250	60	Nil	Yes	No	No	No	No	n.s	No	No	No	Contractor vehicle	No	N.s	No	Nil	No	No	Yes	Nil
28		Paliem																										
29		Punola																										
30	V.P.	Penha-de-Franca	4.469	11	3433	15342	7000	0.456	2500	4560	-	No	No	No	No	55	No	Yes	Yes	Truck	No	Rakesh Kumar Karan	Yes	5	No	No	Yes	
31	V.P.	Calangute	8.00	11	1781.3	14250	46000	3.228	22	110	-	No	No	Yes	No	n.s.	Yes	Yes	Yes	2 Ace + 7 vehicles	No	Saahas zero waste+1 n.s	Yes	1	No	Yes	Yes	No
32	V.P.	Siolim Sodiem	15.197	7	277.89	4223	163.6	0.039	90	Nil	-	No	NO	No	No	Not Specified	than e	Yes	Yes	1	No	No	No	2	N	No	Yes	
33	V.P.	Socorro	5.222	11	2301.6	12019	3005	0.250	2970	2760	-	Yes-Not Authorized	No	Yes	No	55	Yes	Yes	Yes	02 trucks	No	Saroj K.Choudhary	Yes	1	No	No	Yes	Nil
34	V.P.	Siolim Marna	7.985	9	282.282	7949	150	0.019	120	Nil	-	No	No	No	No	No	Yes	No	Y	1	N	2	No	2	No	No	Yes	
35																												
36	V.P.	Anjuna	4.469	11	3626.1	16204	7000	0.432	2000	4500	-	No	No	Yes	Yes	n.s.	Yes	Yes	Yes	Mini Tempo+ 2 trucks +108 trolleys	No	1	Yes	4	No	No	Yes	Nil

Annexure IV-Data Assessment of Solid Waste in the State of Goa, Bardez Taluka, North Goa

Sr.No.	V.P.	Area name	Area in sq kms	Wards	Population density /sq km	Population	Total Waste generated kg/d	Kg/capita/d	Dry actually collected in kg/d	Wet waste actually collected	Dry Waste Sorting centre	Material Recovery Facility	Organic Waste Composter	Training & Awareness		Garbage mgmt Funds in LaKhs	Waste Disposal committee	Waste Mgmt Plan	Personal Protection Equipment provided	Waste transporting vehicles	Leachate collection facility	Waste handling contractors	Bins	Black spots	Calibrated weighing devices	Form III	Form IV	legacy dump	
														Public	Waste Collection Team														
37	V.P.	Candolim	7.80	11	1090	8500	30000	3.529	7000	16000	-	No	NO	Yes	Yes	0.5257	Yes	Yes	Yes	8 Trucks+2 rickshaws+2 new	No-only 2	Nil	No	2	No	No	Yes	Nil	
38	V.P.	Reis Magos	0.744	11	10792	8025	3469	0.432	3469	3422		Yes	No	Yes	Yes	n.s	No	Yes	Yes	Tata Xenon+ truck	No	Nil	Yes	Nil	No	Yes	Yes	Nil	
39	V.P.	Salvador do Mundo	4.413	9	2248	9919	2423	0.244	2620	1090		No	No	Yes	No	n.s	Yes	Yes	No	Truck	No	Saroj K.Choudhary	Yes	1	No	No	Yes	Nil	
40	V.P.	Saligao	5.982	9	1167	6980	1380	0.198	1000	200		Yes	No	Yes	No	n.s.	No	Yes	No	Tata 407	No	No	No	1	No	No	Yes		
41	V.P.	Aldona	15.197	11	739.3	11235	2808	0.250	600	17		Yes	No	Yes	No	n.s.	Yes	No	Yes	Rickshaw and Ace	No	Bhikaji	No	Nil	No	No	Yes		
42	V.P.	Nerul	9.850	9	511.9	5042	2400	0.476	1200	1159	-	No	No	Yes	Yes	n.s.	No	Yes	Yes	02 rickshaw	No	NO	Yes	1	No	No	yes	Nil	
43	V.P.	Guirim	4.028	9	2061	8301	1150	0.139	510	590	-	No	No	No	No	n.s	No	No	Yes	Ace	No	No	No	Nil	No	NA	Yes		
44	V.p.	Colvale	10.017	9	679.8	6810	1702	0.250	20	No	-	No	No	Yes	No	n.s	Yes	Yes	Yes	trolley	No	Nil	No	3	No	NA	Yes	Nil	
45	V.P.	Moira	3.864	7	1113	4299	1074.75	0.250	1320	680	-	No	No	Yes	NO	n.s	Yes	Yes	No	Balero	No	No	No	1	No	No	Yes	Nil	
Total			238.7		77370	372736	138805	16								122													
Average			7		2418	10963	4083	0.456								15													
Max			19		31382	154342	46000	3.529								55													
Min			1		278	2630	55	0.019								1													

Note:

- wherever wet waste is mentioned as Nil it is informed to be self-composted/ in-house composted.
- "Yes" in MRF indicates Goa State Pollution Control Board Approval is available.

*For details refer GWMC template.

Single dwelling units	Restauranta	Hotels	Comm Est	Rented Rooms	Mkt Area	Multidwelling	Street vendors	Hoardings	Wedding venues	Institutes	Others
SDU	R	H	CE	RR	M	MD	SV	HD	WV	I	
775	7	0	3	0	0	0	2	0	2	5	
2118	24	4	176	0	0	23	5	0	2	13	
714	6	1	23	9	0	4	0	1	1	7	
3513	7	5	181	0	0	30	60	0	0	15	
690	10		13	40	6	7	0	0	2	1	
2656	16	4	178	761	7	193	0	35	9	9	
11746	582	264	17	379	0	44	17	0	2	27	
1210	0	0	0	0	0	0	0	24	24	48	
6752	48	0	196	0	0	169	0	0	2	2	
502	0	0	0	0	0	0	0	0	0	0	
7401	206	24	470	187	1	49	33	5	0	7	

MATERIAL RECOVERY FACILITY CAPACITY*						
Waste generation @.54kg/capita/day	Estimated generation of dry waste @0.297kg	Vol. of storage for recyclable waste for 7 days in (m3)	3. Area req. for storage (m2)	Vol. of storage for baled waste for 7 days in (m3)	6. Storage area for baled waste(m2)	Total area required for MRF in m2 (1+2+3+4+5+6+7)
418.284	230.0562	1.6103934	1.073596	4.8311802	3.2207868	138.294382
440.4938	242.2716	1.695900938	1.130601	5.0877028	3.3918019	138.522403
692.5329	380.8931	2.66625183	1.777501	7.9987555	5.3325037	141.110005
186.559	102.6074	0.718251977	0.478835	2.1547559	1.436504	135.915339
16946.45	9320.548	65.24383667	43.49589	195.73151	130.48767	307.983564
468.8479	257.8663	1.805064437	1.203376	5.4151933	3.6101289	138.813505
602.9502	331.6226	2.321358328	1.547572	6.964075	4.6427167	140.190289
1512	831.6	5.8212	3.8808	17.4636	11.6424	149.5232
418.284	230.0562	1.6103934	1.073596	4.8311802	3.2207868	138.294382
667.5929	367.1761	2.570232743	1.713488	7.7106982	5.1404655	140.853954
166.3636	91.5	0.6405	0.427	1.9215	1.281	135.708
172.3389	94.7864	0.663504817	0.442337	1.9905145	1.3270096	135.769346

MATERIAL RECOVERY FACILITY CAPACITY*						
Waste generation @.54kg/capita/day	Estimated generation of dry waste @0.297kg	Vol. of storage for recyclable waste for 7 days in (m3)	3. Area req. for storage (m2)	Vol. of storage for baled waste for 7 days in (m3)	6. Storage area for baled waste(m2)	Total area required for MRF in m2 (1+2+3+4+5+6+7)
178.9093	98.40012	0.688800847	0.459201	2.0664025	1.3776017	135.836802
704.9014	387.6958	2.713870435	1.809247	8.1416113	5.4277409	141.236988
441.5968	242.8782	1.700147745	1.133432	5.1004432	3.4002955	138.533727
273.7078	150.5393	1.053775013	0.702517	3.161325	2.10755	136.810067
152.4323	83.83778	0.58686444	0.391243	1.7605933	1.1737289	135.564972
1853.935	1019.664	7.137650323	4.758434	21.412951	14.275301	153.033734
961.875	529.0313	3.70321875	2.468813	11.109656	7.4064375	143.87525
150.0592	82.53257	0.577728009	0.385152	1.733184	1.155456	135.540608
1242.886	683.5874	4.785111583	3.190074	14.355335	9.5702232	146.760298
152.4323	83.83778	0.58686444	0.391243	1.7605933	1.1737289	135.564972
1958.1	1076.955	7.538683734	5.025789	22.616051	15.077367	154.103157

MATERIAL RECOVERY FACILITY CAPACITY*						
Waste generation @.54kg/capita/day	Estimated generation of dry waste @0.297kg	Vol. of storage for recyclable waste for 7 days in (m3)	3. Area req. for storage (m2)	Vol. of storage for baled waste for 7 days in (m3)	6. Storage area for baled waste(m2)	Total area required for MRF in m2 (1+2+3+4+5+6+7)
588.4615	323.6538	2.265576923	1.510385	6.7967308	4.5311538	140.041538
5827.432	3205.088	22.43561383	14.95708	67.306842	44.871228	193.828304
1213.874	667.6306	4.673414356	3.11561	14.020243	9.3468287	146.462438
630.1008	346.5554	2.425888096	1.617259	7.2776643	4.8517762	140.469035
399.2222	219.5722	1.537005488	1.02467	4.6110165	3.074011	138.098681
276.4142	152.0278	1.064194721	0.709463	3.1925842	2.1283894	136.837853
1112.728	612.0002	4.284001564	2.856001	12.852005	8.5680031	145.424004
367.1031	201.9067	1.413346843	0.942231	4.2400405	2.8266937	137.768925
600.7919	330.4356	2.313048913	1.542033	6.9391467	4.6260978	140.16813