

Appendix C

Table C1: Land Use Pattern in the BDA Planning Area.

Type	Master Plan-1968		1988		CDP-1993		Existing %	CDP-2010 for BDPA	
	Area in hectare	%	Area in hectare	%	Area in hectare	%		Area in hectare	%
Residential	2,206	22.93	1,904.8	8.17	7,628.6	32.7	12.40	14,123.3	33.70
Commercial	262	2.72	127.5	0.55	499.8	2.14	0.83	1,232.72	2.94
Administrative	222	2.31	202.4	0.87	293.4	1.26	3.84	5,741.06	13.7
Institutional and utilities	1,053	10.93	520.6	2.23	720	3.09			
Industrial	481	5.00	391.0	1.68	593	2.54	1.15	1,752.57	4.18
Park and Open Space	1,392	14.47	703	3.02	1,393.4	5.98	1.66	(Recreation) 3663.98	8.74
Transport and communication Road, railway, and airport	1,482	15.40	1,005.6	4.31	1,913.4	8.211	4.67	6,110.82	14.58
Water bodies River, canal and lake	—	—	563.6	2.42	3,421.7	14.67	2.56	2,171.45	5.18
Drainage channel	—	—	—	—	262.2	1.12			
Green belt	1,880	19.54	17,899	76.76	6,592.1	28.27			
Vacant land							15.60		
Waste land							6.41		
Agriculture							30.07	5,886.59	14.05
Protected forest and reserve forest							19.07		
Others	666	6.90	—	—	—	—	1.74	Special area- 1,228.03	2.93
Total	9,621	100	2,3318	100	2,3318	100	100	41,910.56	100

Source: CDP (1993), CDP for BDPA-2030 (2010).

Table C2: Land Use Pattern of Bhubaneswar City (Urban Areas).

Type	1974 %	1990 %	Proposed CDP- 1993 %	Existing %
Residential	44.20	47.82	58.5	21.85
Commercial	1.40	2.89	3.8	1.71
Administrative and institutional	14.74	11.72	7.7	7.46
Utilities and services	—	—		0.54
Industrial	1.65	5.86	4.5	2.40
Park and open space	2.45	3.3	10.8	1.86
Transport and communication Road, railway, and airport	6.16	3.36	14.7	8.80
Water bodies River, canal, and lake	—	—	—	2.52
Vacant land in urban areas	29.40	25.05	—	22.80
Waste land	—	—	—	4.34
Agriculture	—	—	—	12.45
Protected forest and reserve forest	—	—	—	11.60
Others	—	—	—	1.67
Total	100	100	100	100

Source: CDP (1993), CDP for BDPA-2030 (2010).

Table C3: Ward-Wise Population Density and Available Open Space.

Category	Ward No.	Area in (km ²)	Population Density Persons/km ²	Developed Open Space (mt ²)	Open Space per person (mt ² /person)
Very dense	37	1.056	20,537	66,850.32	3.08
Dense areas	20	1.849	15,030	54,036.21	1.94
	24	7.859	17,517	0	0
	28	1.186	15,595	18,501.11	1.0
	42	0.704	16,842	0	0
	43	0.521	16,751	0	0
Moderately dense areas	15	1.172	12,027	0	0
	16	0.722	13,019	0	0
	18	0.998	14,151	0	0
	19	0.928	12,820	8,404.21	0.71 0.91%
	21	1.078	10,283	0	0
	25	0.914	12,802	8,911.44	0.76 0.98%
	26	1.067	11,380	2,792.83	0.23 0.26%
	27	1.302	13,132	10,087.10	0.59 0.77%
	29	1.270	10,706	0	0
	30	1.946	10,309	0	0
Medium dense areas	35	2.536	11,033	11,897.80	0.43
	40	1.021	13,949	6,415.42	0.45
	41	1.942	12,303	0	0
	44	1.894	12,567	23,104.46	0.97
	2	2.733	6,274	4,616.58	0.27
	9	3.232	5,298	0	0
	10	2.564	5,131	15,840.58	1.20
	17	1.433	7,666	0	0
	23	3.657	5,409	75,393.19	3.81
	31	1.092	8,609	0	0
	36	1.299	8,454	117,121.7	10.66
	38	3.083	6,197	15,045.09	0.79
	39	1.904	7,968	14,249.80	0.94
	Low-dense areas	1	7.930	2,043	4,569.59
3		4.866	2,262	141,608.15	12.87
4		8.739	1,437	0	0
5		6.506	1,449	0	0
6		13.961	1,087	0	0
7		4.656	2,876	0	0

Table C3: (Continued)

Category	Ward No.	Area in (km ²)	Population Density Persons/km ²	Developed Open Space (m ²)	Open Space per person (m ² /person)
	8	4.521	4,227	35,053.76	1.83
	11	9.157	1,000	547,093.54	59.75
	12	4.777	1,705	12,507.76	1.54
	13	5.231	1,903	0	0
	14	7.475	1,132	47,444.21	5.61
	22	3.820	3,385	40,047.38	3.10
	32	4.220	2,038	131,135.20	15.25
	33	3.216	1,749	0	0
	34	5.806	2,694	18,876.60	1.21
	45	2.957	4,738	0	0
	46	2.827	3,208	0	0
	47	1.567	3,441	2,647.56	0.49

Source: ORSAC Images (2008), BDA (CDP-1993), Field Survey (2008), Census (2001).