

SANTIPUR

SALIENT FEATURES OF WATER SUPPLY SCHEME

1	Name of the Town	:	Santipur
2	Name of the District	:	Nadia
3	Town Population (2001)	:	138,197
4	Design Population (2038)		
	Zone I	:	29,064
	Zone II	:	61,276
	Zone III	:	41,911
	Zone IV	:	93,234
	Zone V	:	92,503
	Total Design Population (2038)	:	317,988
5	Source of Water	:	Surface water from river Bhagirathi
6	Daily Water Demand (Ultimate Year)	:	
	Zone I	:	3.36 Million Liters per Day (MLD)
	Zone II	:	6.72. MLD
	Zone III	:	4.71 MLD
	Zone IV	:	9.99 MLD
	Zone V	:	9.91 MLD
	Total daily Water Demand	:	34.69 MLD
7	Per Capita Water Supply proposed	:	70 liters per capita per day (lpcd)
8	Number of zones	:	5 (Five)
9	Wards Covered		
	Zone I	:	Ward Nos. 11, 23
	Zone II	:	Ward Nos. 1, 7, 9, 10, 12
	Zone III	:	Ward Nos. 1, 6, 8
	Zone IV	:	Ward Nos. 2, 3, 4, 5, 15, 16, 17
	Zone V	:	Ward Nos. 13, 14, 18, 19, 20, 21, 22

10	Hours of pumping Raw Water Clear Water	:	16 hours/ day 12 hours/ day
11	Hours of supply	:	8 hours/ day
12	Number of Over Head Reservoirs (OHR) Existing/ Proposed	:	2 (Two)/ 3 (Five)
13	Capacity/ Staging Height of proposed OHRs Zone I Zone III Zone IV	:	0.350 Million Liters (ML)/ 20 m 0.500 ML/ 20 m 0.750 ML/ 20 m
14	Number/ Capacity of Clear Water Reservoirs (CWR) proposed	:	1 (One)/ 3.75 ML
15	Composition of Intake structure and Treatment Plant Intake Structure Chemical Mixer Clariflocculator Chemical House Filter	:	River intake 'Jack' well of 8.00 m internal dia RCC circular Flash Mixer tank of dia 2.27 m & height 4 m for rapid mixing Radaial type RCC clarifocculator chamber of dia 14.5 m and depth 4 m One chemical house of carpet area 30 sq.m. Rapid Gravity Filter 12 nos. in two rows with dimensions 6.12 m X 4.71 m with 60 cm sand depth
16	Length & Dia. of Rising Main proposed	:	17.00 Km (250 mm, 300 mm & 450 mm dia)
17	Details of Rising Main Intake to WTP CWR to GLRs & OHRs Zone I Zone II Zone III Zone IV Zone V	:	450 mm dia 2000 m DI K9 pipe 250 mm dia 2800 m DI K9 pipe 300 mm dia 1600 m DI K9 pipe 250 mm dia 2500 m DI K9 pipe 300 mm dia 3500 m DI K9 pipe 300 mm dia 4600 m DI K9 pipe

18	Length of Distribution pipeline proposed	:	129.661 Km (DI K7 pipe)
	Zone I		24.546 Km
	100 mm dia	:	11916 m
	150 mm dia	:	8581 m
	200 mm dia	:	3014 m
	250 mm dia	:	898 m
	350 mm dia	:	84 m
	400 mm dia	:	53 m
	Zone II		25.251 Km
	100 mm dia	:	18087 m
	150 mm dia	:	5178 m
	200 mm dia	:	925 m
	250 mm dia	:	571 m
	300 mm dia	:	195 m
	350 mm dia	:	148 m
	400 mm dia	:	58 m
	450 mm dia	:	63 m
	500 mm dia	:	26 m
	Zone III		17.998 Km
	100 mm dia	:	9619 m
	150 mm dia	:	4715 m
	200 mm dia	:	2075 m
	250 mm dia	:	1177 m
	300 mm dia	:	248 m
	350 mm dia	:	111 m
	400 mm dia	:	53 m
	Zone IV		34.00 Km
	100 mm dia	:	17175 m
	150 mm dia	:	4974 m
	200 mm dia	:	6445 m
	250 mm dia	:	2108 m
	300 mm dia	:	1557 m
	350 mm dia	:	469 m
	400 mm dia	:	565 m
	450 mm dia	:	528 m
	500 mm dia	:	69 m
	600 mm dia	:	110 m
	Zone V		27.866 Km

19	100 mm dia 150 mm dia 200 mm dia 250 mm dia 300 mm dia 350 mm dia 400 mm dia 600 mm dia Type & number of pumps proposed Intake to WTP Zone I Zone II Zone III Zone IV Zone V	:	14712 m 5111 m 3681 m 1227 m 1959 m 1188 m 306 m 222 m 8 (Eight) nos. centrifugal pumps 2 Nos. centrifugal pumps 1 No. centrifugal pump 1 No. centrifugal pump 1 No. centrifugal pump 2 Nos. centrifugal pumps 1 No. centrifugal pump
20	Project Cost Common components for all zones Zone I Zone II Zone III Zone IV Zone V Total Contingencies @ 3% Total project Cost Incentives @ 5% Grand total	:	Rs.497.51 lakh Rs.206.46 lakh Rs.102.62 lakh Rs.232.12 lakh Rs.303.12 lakh Rs.332.57 lakh Rs.1674.41 lakh Rs.50.23 lakh Rs.1724.64 lakh Rs.86.23 lakh Rs.1810.87 lakh
21	Annual O&M Cost	:	Rs.169.69 lakh
22	Per Capita Cost on 2038 AD population	:	Rs.542.00
23	Funding Pattern GOI (Excluding Incentive) GOWB ULB	:	Rs.1379.00 lakh Rs.172.50 lakh Rs.172.50 lakh
24	Implementation Period Year of Commencement Year of Completion	:	2007 2009
25	Agencies responsible Nodal Implementation O&M	:	SUDA M.E. Dte. Santipur Municipality