

BERHAMPORE

SALIENT FEATURES OF WATER SUPPLY SCHEME

1	Name of the Town	:	Berhampore Municipality
2	Name of the District		Murshidabad
3	Town Population (2001)	:	160,168
8	Total number of wards		23 (Twenty three)
9	Number of wards covered	:	5 (Five) fully and 18 (Eighteen) by augmenting supply in the existing network
8	Number of zones proposed		2 (Two)
9	Wards Covered		
	New distribution network		
	Zone I	:	Ward Nos. 5, 6, 7 & 8
	Zone II		Ward No. 3
	Augmenting supply to the existing network	:	Balance 18 wards
4	Design Population (2038)		
	Zone I	:	24,649
	Zone II		44,269
	Remaining part of the town	:	212,127
	Total Design Population (2038) for new network system	:	68,918
5	Source of Water		Surface water from river Bhagirathi at Kunjaghata
6	Daily Water Demand (Ultimate Year 2038)		
	Zone I		2.35 Million Liters per Day (MLD)
	Zone II		4.32 MLD
	Total daily Water Demand		6.67 MLD
7	Per Capita Water Supply proposed		70 liters per capita per day (lpcd)
10	Hours of pumping		
	Intake well to Treatment Plant		16 hours/day

	Treatment Plant to intermediate UGR	:	16 hours/ day
	UGR to OHRs	:	12 hours/ day
11	Hours of supply	:	8 hours/ day
14	Number of Reservoirs existing	:	2 (Two) UGRs & 1(One) OHR
15	Number of Reservoirs (OHR) Proposed	:	2 (Two) UGRs & 2 (Two) OHRs
16	Capacity of proposed reservoirs		
	UGRs	:	
	CWR at Treatment Plant	:	4.07 ML
	Intermediate UGR	:	4.07 ML
	OHRs	:	
	Zone I	:	0.59 ML
	Zone II	:	0.89 ML
17	Composition of Intake structure and Treatment Plant		
	Intake Structure	:	River intake well of intenal dia 3.90 m
	Chemical Mixer	:	RCC circular Rapid Mixer tank of dia 1.80 m & height 3.1 m for rapid mixing
	Settling Tank	:	RCC radial circular settling tank of dia 27.50 m and depth 3.50 m
	Filter	:	Rapid Gravity Filter 4 nos. with dimensions 7.55 m X 5.81 m with 60 cm sand depth
	Chlorination chamber	:	1 (One) no.
18	Length & Dia. of Rising Main proposed	:	7.707 Km (350 mm, 400 mm, 450 mm & 500 mm dia DI K9 pipes)
19	Details of Rising Main		
	Treatment Plant UGR to Intermediate UGR	:	500 mm dia 100 m DI K7 pipe
	Treatment Plant UGR to Intermediate UGR	:	350 mm dia 2694 m DI K7 pipe
	Intermediate UGR to Junction point	:	500 mm dia 950 m DI K7 pipe

	Junction point to OHR		
	Zone I	:	400 mm dia 2423 m DI K7 pipe
	Zone I	:	450 mm dia 1540 m DI K9 pipe
20	Length of Distribution pipeline proposed	:	31.645 Km (DI K9 pipes)
	Zone I		6.274 Km
	100 mm dia	:	4539 m
	150 mm dia	:	1133 m
	200 mm dia	:	314 m
	250 mm dia	:	221 m
	300 mm dia	:	47 m
	350 mm dia	:	20 m
	Zone II	:	25.371 Km
	100 mm dia	:	20823 m
	150 mm dia	:	1609 m
	200 mm dia	:	712 m
	250 mm dia	:	501 m
	300 mm dia	:	419 m
	350 mm dia	:	317 m
	400 mm dia	:	990 m
21	Details of pumping units		13 (Thirteen) nos. submersible pumps
	Lifting Station	:	2 nos. 25 HP
	Treatment Plant to intermediate UGR	:	2 nos. 30 HP
	Intermediate UGR to OHR	:	9 nos. 30 HP
22	Project Cost		
	Treatemnt Plant	:	Rs.113.53 lakh
	Zone I	:	Rs.126.76 lakh
	Zone II	:	Rs.400.10 lakh
	Rising mains for common portion	:	Rs.500.45 lakh
	Mechanical & Electrical	:	Rs.129.66 lakh

	Total (including contingencies)	:	Rs.1270.50 lakh
	Incentives @ 5%	:	Rs.63.53 lakh
	Grand total	:	Rs.1334.03 lakh = 1334.00 lakh (say)
23	Annual O&M Cost	:	Rs.81.20 lakh
24	Per Capita Cost on 2038 AD population	:	Rs.1526.00
25	Funding Pattern		
	GOI (Excluding Incentive)	:	Rs.1079.50 lakh
	GOWB	:	Rs.127.00 lakh
	ULB	:	Rs.127.00 lakh
26	Implementation Period		
	Year of Commencement	:	2007
	Year of Completion	:	2009
27	Agencies responsible		
	Nodal		SUDA
	Implementation	:	M.E. Dte.
	O&M	:	Berhampore Municipality