

## ARAMBAG

### SALIENT FEATURES OF WATER SUPPLY SCHEME

1	Name of the Town	:	Arambagh
2	Name of the District	:	Hooghly
3	Town Population (2001)	:	56,140
4	Design Population (2038)		
	Zone I	:	19,420
	Zone II	:	23,348
	Zone III	:	16,437
	Zone IV	:	26,460
	Zone V	:	6,113
	Total Design Population (2038)	:	91,778
5	Source of Water	:	Deep Tube Wells (DTW) through Over Head Reservoirs (OHR)
6	Daily Water Demand	:	
	Zone I	:	1.85
	Zone II	:	2.20
	Zone III	:	1.57
	Zone IV	:	2.49
	Zone V	:	0.62
	Total daily Water Demand	:	8.73 Million Liters per Day (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. 3, 4, 5 & 14
	Zone II	:	Ward Nos. 1, 2 & 13
	Zone III	:	Ward Nos. 9, 10, 11 & 17
	Zone IV	:	Ward Nos. 6, 7, 8, 15 & 16
	Zone V	:	Ward Nos. 12 & 18
10	Hours of pumping	:	12 hours/ day
11	Hours of supply	:	8 hours/ day
12	Number of Over Head Reservoirs (OHR) Existing/ Proposed	:	1 (One)/ 4 (Four)
	Zone I	:	1/ Nil
	Zone II	:	Nil/ 1
	Zone III	:	Nil/ 1
	Zone IV	:	Nil/ 1
	Zone V	:	Nil/ 1

13	Capacity/ Staging Height of proposed OHRs Zone II Zone III Zone IV Zone V	: : : :	0.500 Million Liters (ML)/ 20 m 0.350 Million Liters (ML)/ 20 m 0.550 Million Liters (ML)/ 20 m 0.135 Million Liters (ML)/ 13.60 m
14	Number of Clear Water Reservoirs (CWR) proposed	:	4 (Four)
15	Capacity/ Staging Height of CWRs Zone II Zone III Zone IV	: : :	0.08 Million Liters (ML) at GL 0.06 Million Liters (ML) at GL 0.09 Million Liters (ML) at GL
16	Number of Deep Tube Wells (DTW) <b>Existing/ Proposed</b> Zone I Zone II Zone III Zone IV Zone V	: : : : :	9 (Nine)/ 5 (Five) 3/ Nil 3/ Nil 2/ 1 1/ 2 Nil/ 2
17	Discharge of each DTW (with 12 hours' pumping per day)	:	0.96 Million Liters per Day (MLD)
18	Brief approx. Composition of each DTW Boring depth Housing pipe Well pipe Strainer	: : : :	150.00 m 300 mm dia 35 m (ERWMS) 200 mm dia 85 m (ERWMS) 200 mm dia 30 m (Fibre Glass)
19	Length & Dia. of Rising Main proposed	:	6.83 Km (150 mm & 250 mm dia)
20	Details of Rising Main Deep TW to CWR Zone II Zone III Zone IV CWR to OHR Zone II Zone III Zone IV Deep TW to OHR Zone V	: : : : : : : : :	150 mm dia 4020 m DI K9 pipe 150 mm dia 830 m DI K9 pipe 150 mm dia 1430 m DI K9 pipe 250 mm dia 50 m DI K9 pipe 250 mm dia 50 m DI K9 pipe 250 mm dia 50 m DI K9 pipe 250 mm dia 50 m DI K9 pipe 150 mm dia 350 m DI K9 pipe

21	<p>Length of Distribution pipeline proposed</p> <p>Zone I</p> <p>100 mm dia</p> <p>300 mm dia</p> <p>Zone II</p> <p>100 mm dia</p> <p>150 mm dia</p> <p>200 mm dia</p> <p>250 mm dia</p> <p>300 mm dia</p> <p>Zone III</p> <p>100 mm dia</p> <p>150 mm dia</p> <p>200 mm dia</p> <p>300 mm dia</p> <p>Zone IV</p> <p>100 mm dia</p> <p>150 mm dia</p> <p>200 mm dia</p> <p>300 mm dia</p> <p>350 mm dia</p> <p>Zone IV</p> <p>100 mm dia</p> <p>150 mm dia</p>	:	<p>78.890 Km</p> <p>7170 m</p> <p>50 m</p> <p>16820 m</p> <p>2440 m</p> <p>480 m</p> <p>300 m</p> <p>110 m</p> <p>21530 m</p> <p>2110 m</p> <p>980 m</p> <p>60 m</p> <p>17350 m</p> <p>2480 m</p> <p>1370 m</p> <p>770 m</p> <p>60 m</p> <p>4750 m</p> <p>60 m</p>
22	<p>Number &amp; Type of pumps proposed</p> <p>Zone II</p> <p>Deep TW to CWR</p> <p>CWR to OHR</p> <p>Zone III</p> <p>Deep TW to CWR</p> <p>CWR to OHR</p> <p>Zone IV</p> <p>Deep TW to CWR</p> <p>CWR to OHR</p> <p>Zone V</p> <p>Deep TW to OHR</p> <p>Total number &amp; type of pumps proposed</p>	:	<p>4 Nos. 12 HP/ 9 KW submersible pumps</p> <p>2 Nos. 34 HP/ 25 KW centrifugal pumps</p> <p>4 Nos. 12 HP/ 9 KW submersible pumps</p> <p>2 Nos. 34 HP/ 25 KW centrifugal pumps</p> <p>4 Nos. 12 HP/ 9 KW submersible pumps</p> <p>2 Nos. 34 HP/ 25 KW centrifugal pumps</p> <p>2 Nos. 12 HP/ 9 KW submersible pumps</p> <p>14 (12 HP/ 9 KW submersible pumps)</p> <p>6 (34 HP/ 25 KW centrifugal pumps)</p>

23	Project Cost		
	Zone I	:	Rs.62.61 lakh
	Zone II	:	Rs.311.20 lakh
	Zone III	:	Rs.300.42 lakh
	Zone IV	:	Rs.330.25 lakh
	Zone V	:	Rs.85.05 lakh
	Total	:	Rs.1089.52 lakh
	Contingencies @ 3%	:	Rs.32.69 lakh
	Total project Cost	:	Rs.1122.21 lakh
	Incentives @ 5%	:	Rs.56.11 lakh
	<b>Grand total</b>	:	<b>Rs.1178.32 lakh</b>
24	Annual O&M Cost	:	Rs.78.06 lakh
25	Per Capita Cost on 2038 AD population	:	Rs.1222.74
26	Production cost per kilo liter (KL) of water	:	Rs.2.45
27	Funding Pattern		
	GOI (Including Incentive)	:	Rs.953.88 lakh
	GOWB	:	Rs.112.22 lakh
	ULB	:	Rs.112.22 lakh
	Total	:	Rs.1122.21 lakh
28	Implementation Period		
	Year of Commencement	:	2007
	Year of Completion	:	2009
29	Agencies responsible		
	Implementation	:	M.E. Dte.
	O&M	:	Arambag Municipality