

KATWA

SALIENT FEATURES OF WATER SUPPLY SCHEME

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| 1 | Name of the Town | : | Katwa |
| 2 | Name of the District | : | Burdwan |
| 3 | Town Population (2001) | : | 71,574 |
| 4 | Design Population (2038) | | |
| | Zone I | : | 84,117 |
| | Zone II | : | 63,144 |
| | Zone III | : | 41,010 |
| | Total Design Population (2038) | : | 188,271 |
| 5 | Source of Water | : | Surface water from river Bhagirathi |
| 6 | Daily Water Demand (Ultimate Year 2038) | : | |
| | Zone I | : | 7070 Million Liters per Day (MLD) |
| | Zone II | : | 5.88 MLD |
| | Zone III | : | 3.94 MLD |
| | Total daily Water Demand | : | 17.52 MLD |
| 7 | Per Capita Water Supply proposed | : | 70 liters per capita per day (lpcd) |
| 8 | Number of zones | : | 3 (Three) |
| 9 | Wards Covered | | |
| | Zone I | : | Ward Nos. 1-6, 13, 15, 16 & 18 |
| | Zone II | : | Ward Nos. 7-11 & 17 |
| | Zone III | : | Ward Nos. 12, 14 & 19 |
| 10 | Hours of pumping | | |
| | Intake well to Treatment Plant | : | 16 hours/ day |
| | Treatment Plant to zonal CWR | : | 16 hours/ day |
| | Zonal CWR to OHR | : | 12 hours/ day |
| 11 | Hours of supply | : | 8 hours/ day |
| 12 | Number of Clear Water Reservoirs (CWR) Proposed | : | 3 (Three) |

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| 13 | Capacity of proposed CWRs Treatment Plant Zone I Zone II Zone III | : : : : | 0.84 Million Liters (ML) 1.166 Million Liters (ML) 0.900 ML 0.540 ML |
| 14 | Number/ Capacity of Over Head Reservoirs (OHR) Existing | : | 1 (One)/ 0.68 Million Liters (ML) |
| 15 | Number of Over Head Reservoirs (OHR) Proposed | : | 3 (Three) |
| 16 | Capacity/ Staging Height of proposed OHRs Treatment Plant for back washing Zone I Zone II Zone III | : : : : | 0.140 Million Liters (ML) 0.720 ML/ 20 m 0.900 ML/ 20 m 0.750 ML/ 20 m |
| 17 | Composition of Intake structure and Treatment Plant Intake Structure Chemical Mixer Clariflocculator Chlorination chamber Filter | : : : : : | River intake well of size 2.0 m X 3.0 m X 8.5 m RCC circular Rapid Mixer tank of dia 1.82 m & height 3.2 m for rapid mixing 2 (Two) nos. Radial type RCC clariflocculator chamber of dia 20.0 m and depth 4 m 1 (One) no. Rapid Gravity Filter 12 nos. with dimensions 4.40 m X 3.40 m with 60 cm sand depth |
| 18 | Length & Dia. of Rising Main proposed | : | 5.95 Km (250 mm, 300 mm, 350 mm, 450 mm & 500 mm dia) |
| 19 | Details of Rising Main Intake well to TP TP CWR to zonal CWR Zone I Zone II Zone III | : : : : : | 500 mm dia 1200 m DI K9 pipe 350 mm dia 2100 m DI K9 pipe 300 mm dia 1000 m DI K9 pipe 250 mm dia 1400 m DI K9 pipe |

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| | CWR to OHR | | |
| | Zone I | : | 450 mm dia 60 m DI K9 pipe |
| | Zone II | : | 350 mm dia 80 m DI K9 pipe |
| | Zone III | : | 300 mm dia 110 m DI K9 pipe |
| 20 | Length of Distribution pipeline proposed | : | 40.970 Km (DI K7 & K9 pipes) |
| | Zone I | | 2.150 Km |
| | 100 mm dia | : | 2000 m |
| | 300 mm dia | : | 100 m |
| | 350 mm dia | : | 50 m |
| | Zone II | | 15.520 Km |
| | 100 mm dia | : | 800 m |
| | 150 mm dia | : | 6400 m |
| | 200 mm dia | : | 7550 m |
| | 250 mm dia | : | 650 m |
| | 300 mm dia | : | 120 m |
| | Zone III | | 23.300 Km |
| | 100 mm dia | : | 10300 m |
| | 150 mm dia | : | 10500 m |
| | 200 mm dia | : | 2200 m |
| | 250 mm dia | : | 300 m |
| 21 | Details of pumping units | | 18 (Eighteen) nos. centrifugal pumps |
| | Lifting Station | : | 4 nos. 40 HP/ 29.84 KW |
| | Treatment Plant CWR to zonal CWR | | |
| | Zone I | : | 2 nos. 25 HP/ 18.65 KW |
| | Zone II | : | 2 nos. 15 HP/ 11.19 KW |
| | Zone III | : | 2 nos. 15 HP/ 11.19 KW |
| | Zonal CWR to Zonal OHR | | |
| | Zone I | : | 3 nos. 35 HP/ 26.11 KW |
| | Zone II | : | 3 nos. 30 HP/ 22.38 KW |
| | Zone III | : | 2 nos. 40 HP/ 29.84 KW |

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| 22 | Project Cost | | |
| | Treatemnt Plant | : | Rs.311.73 lakh |
| | Zone I | : | Rs.241.79 lakh |
| | Zone II | : | Rs.339.81 lakh |
| | Zone III | : | Rs.367.01 lakh |
| | Total | : | Rs.1260.34 lakh |
| | Contingencies @ 3% | : | Rs.37.81 lakh |
| | Total project Cost | : | Rs.1298.15 lakh |
| | Incentives @ 5% | : | Rs.64.91 lakh |
| | Grand total | : | Rs.1363.06 lakh |
| 23 | Annual O&M Cost | : | Rs.109.10 lakh |
| 24 | Per Capita Cost on 2038 AD population | : | Rs.689.50 |
| 25 | Funding Pattern | | |
| | GOI (Excluding Incentive) | : | Rs.1103.42 lakh |
| | GOWB | : | Rs.129.82 lakh |
| | ULB | : | Rs.129.82 lakh |
| 26 | Implementation Period | | |
| | Year of Commencement | : | 2006 |
| | Year of Completion | : | 2008 |
| 27 | Agencies responsible | | |
| | Nodal | | SUDA |
| | Implementation | : | M.E. Dte. |
| | O&M | : | Katwa Municipality |