

DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part)
Panchayaths in Idukki District-Package III- Clear Water Pumping Main, GLSR in Rajakumary
GP-Pipeline Work

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|----------|-------|-------|----|-----------------|
| 1 | Supply and laying Clear Water Pumping Main-cost of materials | | | | | | |
| 1.001 | 100.98.117 | | | | | | |
| | Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia. | | | | | | |
| | Supply of 200mm DI pipes | | | | | | |
| | 200mm DI pipes | 1 | 2615.000 | | | | 2615.000 |
| | Spare for future Maintenance | 1 | 66.000 | | | | 66.000 |
| | Deduction for MS pipe | -1 | 24.000 | | | | -24.000 |
| | Total | | | | | | 2657.000 |
| | Total Quantity in metre | | | | | | 2657.000 |
| 1.002 | 100.98.441 | | | | | | |
| | Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm. | | | | | | |
| | Air valve 40mm | | | | | | |
| | | 8 | | | | | 8.000 |
| | Total | | | | | | 8.000 |
| | Total Quantity in no | | | | | | 8.000 |
| 1.003 | 100.98.461 | | | | | | |
| | Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 200mm. | | | | | | |
| | 200mm sluice valve | | | | | | |
| | For Scour arrangement | 1 | | | | | 1.000 |
| | Total | | | | | | 1.000 |
| | Total Quantity in no | | | | | | 1.000 |
| 2 | Supply and laying 200mm DI K9 CWPM- Working charges | | | | | | |
| 2.001 | 100.1.1 | | | | | | |
| | Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil. | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|----|----------|-------|-------|--------------|-----------------|
| | Excavating trenches for all kids of soil - 75% | | | | | | |
| | 200mm DI K9 | 1 | 2615.000 | 0.800 | 1.150 | 0.7500 00 | 1804.350 |
| | Deduction for MS Pipe | -1 | 24.000 | 0.800 | 1.150 | 0.7500 00 | -16.560 |
| | Total | | | | | | 1787.790 |
| | Total Quantity in cum | | | | | | 1787.790 |
| 2.002 | 100.1.5 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock. | | | | | | |
| | Excavating trenches for ordinary rock - 15% | | | | | | |
| | 200mm DI K9 | 1 | 2615.000 | 0.800 | 1.150 | 0.1500 00 | 360.870 |
| | Deduction for MS Pipe | -1 | 24.000 | 0.800 | 1.150 | 0.1500 00 | -3.312 |
| | Total | | | | | | 357.558 |
| | Total Quantity in cum | | | | | | 357.558 |
| 2.003 | 100.2.2 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited. | | | | | | |
| | Excavation work for medium rock - 5% | | | | | | |
| | 200mm DI K9 | 1 | 2615.000 | 0.800 | 1.150 | 0.0500 00 | 120.290 |
| | Deduction for MS Pipe | -1 | 24.000 | 0.800 | 1.150 | 0.0500 00 | -1.104 |
| | Total | | | | | | 119.186 |
| | Total Quantity in cum | | | | | | 119.186 |
| 2.004 | 100.1.13 Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock where Blasting is Prohibited. | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|----------|-------|-------|--------------------------------|-----------------|
| | 200 mm DI K9 | 1 | 2615.000 | 0.800 | 1.150 | 0.0500 00 | 120.290 |
| | Deduction for MS pipe | -1 | 24.000 | 0.800 | 1.150 | 0.0500 00 | -1.104 |
| | Total | | | | | | 119.186 |
| | | | | | | Total Quantity in cum | 119.186 |
| 2.005 | 100.8.1 | | | | | | |
| | Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. | | | | | | |
| | Fencing one side for trenches | | | | | | |
| | | 1 | 2500.000 | | | | 2500.000 |
| | Total | | | | | | 2500.000 |
| | | | | | | Total Quantity in metre | 2500.000 |
| 2.006 | 100.59.1 | | | | | | |
| | Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation. | | | | | | |
| | Cutting | | | | | | |
| | bituminous cutting | 2 | 700.000 | | | | 1400.000 |
| | Total | | | | | | 1400.000 |
| | | | | | | Total Quantity in metre | 1400.000 |
| 2.007 | 15.59 | | | | | | |
| | Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge. | | | | | | |
| | Dismantling of flexible pavement | | | | | | |
| | | 1 | 1400.000 | 0.800 | 0.200 | | 224.000 |
| | Total | | | | | | 224.000 |
| | | | | | | Total Quantity in cum | 224.000 |
| 2.008 | 15.2.1 | | | | | | |
| | Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) | | | | | | |
| | CC demolition | | | | | | |
| | | 1 | 700.000 | 0.800 | 0.150 | | 84.000 |
| | Total | | | | | | 84.000 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|-----|----------|-------|-------|----|-----------------|
| | Total Quantity in cum | | | | | | 84.000 |
| 2.009 | 100.14.3 | | | | | | |
| | Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes. | | | | | | |
| | S & S | | | | | | |
| | | 1 | 2591.000 | | | | 2591.000 |
| | Total | | | | | | 2591.000 |
| | Total Quantity in metre | | | | | | 2591.000 |
| 2.010 | 18.30.5 | | | | | | |
| | Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe | | | | | | |
| | Flanged Joints - 200mm pipe | | | | | | |
| | | 3 | | | | | 3.000 |
| | Total | | | | | | 3.000 |
| | Total Quantity in no | | | | | | 3.000 |
| 2.011 | 18.70.3 | | | | | | |
| | Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes | | | | | | |
| | Push on joints 200mm dia pipes | | | | | | |
| | | 485 | | | | | 485.000 |
| | Total | | | | | | 485.000 |
| | Total Quantity in joint | | | | | | 485.000 |
| 2.012 | OD110494/2022-2023 | | | | | | |
| | Labour for cutting DI pipe with steel saw 200 mm diameter of DI Pipe | | | | | | |
| | Labour of cutting 200mm DI pipes | | | | | | |
| | Labour of cutting 200mm DI pipes | 20 | | | | | 20.000 |
| | Total | | | | | | 20.000 |
| | Total Quantity in Each Cut | | | | | | 20.000 |
| 2.013 | 100.35.3 | | | | | | |
| | Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA | | | | | | |
| | Testing 200mm Pipe | | | | | | |
| | | 1 | 2615.000 | | | | 2615.000 |
| | Total | | | | | | 2615.000 |
| | Total Quantity in metre | | | | | | 2615.000 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity | |
|-------|---|----|--------|-------|-------|--------------|----------|--------------|
| 2.014 | 18.68.1 | | | | | | | |
| | Providing and laying D.I specials of class K - 12 suitable for push - on jointing as per IS : 9523 :Upt 600 mm dia | | | | | | | |
| | 200mm DI Bends | | | | | | | |
| | 90 degree | 4 | | | | 0.3200 00 | 1.280 | |
| | 45 degree | 5 | | | | 0.2600 00 | 1.300 | |
| | 22.5 degree | 11 | | | | 0.2300 00 | 2.530 | |
| | 11.5 degree | 15 | | | | 0.2100 00 | 3.150 | |
| | 200 * 200 mm TEE | 2 | | | | 0.4100 00 | 0.820 | |
| | 200 TP | 2 | | | | 0.2000 00 | 0.400 | |
| | Total | | | | | | | 9.480 |
| | Total Quantity in quintal | | | | | | | 9.480 |
| 2.015 | 18.69.1 | | | | | | | |
| | Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :Upto 600 mm dia | | | | | | | |
| | MJ Collar- 200mm pipe | | | | | | | |
| | | 8 | | | | 0.2700 00 | 2.160 | |
| | Total | | | | | | | 2.160 |
| | Total Quantity in quintal | | | | | | | 2.160 |
| 2.016 | 100.31.1.5 | | | | | | | |
| | Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 200mm diameter, Class I. | | | | | | | |
| | Sluice Valve - 200mm | | | | | | | |
| | For Scour arrangement | 1 | | | | | 1.000 | |
| | Total | | | | | | | 1.000 |
| | Total Quantity in no | | | | | | | 1.000 |
| 2.017 | 100.32.2 | | | | | | | |
| | Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve. | | | | | | | |
| | Air Valve 40mm | | | | | | | |
| | | 8 | | | | | 8.000 | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|----|--------|-------|-------|--------------------------------|---------------|
| | Total | | | | | | 8.000 |
| | | | | | | Total Quantity in no | 8.000 |
| 2.018 | 100.37.7.1 | | | | | | |
| | In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete. | | | | | | |
| | MS Pipe - 200mm | | | | | | |
| | | 1 | 24.000 | | | | 24.000 |
| | Total | | | | | | 24.000 |
| | | | | | | Total Quantity in metre | 24.000 |
| 2.019 | 100.37.7.2 | | | | | | |
| | Fabricating M.S. flanges of diameter 200mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | | | |
| | MS flange - 200mm | | | | | | |
| | | 6 | | | | | 6.000 |
| | Total | | | | | | 6.000 |
| | | | | | | Total Quantity in no | 6.000 |
| 2.020 | 100.37.7.3 | | | | | | |
| | Cutting 200mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | | | |
| | Cutting | | | | | | |
| | | 12 | | | | | 12.000 |
| | Total | | | | | | 12.000 |
| | | | | | | Total Quantity in no | 12.000 |
| 2.021 | 100.37.7.4 | | | | | | |
| | Welding 200mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | | | |
| | Welding | | | | | | |
| | | 12 | | | | | 12.000 |
| | Total | | | | | | 12.000 |
| | | | | | | Total Quantity in no | 12.000 |
| 2.022 | 100.37.7.5 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|----|--------|-------|-------|----|---------------|
| | Grinding cut and weld edges of 200mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates. | | | | | | |
| | Grinding | | | | | | |
| | | 24 | | | | | 24.000 |
| | Total | | | | | | 24.000 |
| | Total Quantity in no | | | | | | 24.000 |
| 3 | Construction of valve chamber & anchor blocks | | | | | | |
| 3.001 | 2.6.1 | | | | | | |
| | Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil | | | | | | |
| | Excavation for valve chamber | | | | | | |
| | 1mx1mx1m | 1 | 1.600 | 1.600 | 1.500 | | 3.840 |
| | Total | | | | | | 3.840 |
| | Total Quantity in cum | | | | | | 3.840 |
| 3.002 | 4.1.3 | | | | | | |
| | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) | | | | | | |
| | PCC for Valve chamber | | | | | | |
| | 1mx1mx1m | 1 | 1.600 | 1.600 | 0.100 | | 0.256 |
| | For anchor block | 50 | 0.600 | 0.600 | 0.600 | | 10.800 |
| | Total | | | | | | 11.056 |
| | Total Quantity in cum | | | | | | 11.056 |
| 3.003 | 5.1.2 | | | | | | |
| | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size) | | | | | | |
| | RCC for side wall and cover slab | | | | | | |
| | Wall s | 1 | 5.000 | 0.250 | 1.000 | | 1.250 |
| | Base slab | 1 | 1.500 | 1.500 | 0.150 | | 0.338 |
| | 1mx1mx1m cover slab | 1 | 1.500 | 1.500 | 0.250 | | 0.563 |
| | Total | | | | | | 2.151 |
| | Total Quantity in cum | | | | | | 2.151 |
| 3.004 | 5.9.2 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|-------|---------|-------|-------|---------------|----------------|
| | Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc. | | | | | | |
| | Centering and shuttering for valve chamber | | | | | | |
| | Side wall outside 1mx1mx1m | 1 | 4*1.5 | | 1.000 | | 6.000 |
| | Side wall inside 1mx1mx1m | 1 | 4*1 | | 1.000 | | 4.000 |
| | Base slab 1mx1mx1m | 1 | 1.500*4 | 0.150 | | | 0.900 |
| | Anchor blocks | 50 | .6*4 | | 0.600 | | 72.000 |
| | Total | | | | | | 82.900 |
| | Total Quantity in sqm | | | | | | 82.900 |
| 3.005 | 5.9.3 | | | | | | |
| | Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform | | | | | | |
| | Centering and shuttering for valve chamber | | | | | | |
| | Cover slab side 1mx1mx1m | 1 | 1.5*4 | | 0.250 | | 1.500 |
| | Total | | | | | | 1.500 |
| | Total Quantity in sqm | | | | | | 1.500 |
| 3.006 | 5.22.6 | | | | | | |
| | Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more | | | | | | |
| | Steel reinforcement | | | | | | |
| | Valve Chamber | 2.151 | | | | 60.000 000 | 129.060 |
| | Anchor Block | 10.8 | | | | 20.000 000 | 216.000 |
| | Total | | | | | | 345.060 |
| | Total Quantity in kilogram | | | | | | 345.060 |
| 4 | Road restoration charges PWD/SH/NH | | | | | | |
| 4.001 | 3.6 | | | | | | |
| | Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m | | | | | | |
| | Excavation | | | | | | |
| | SH/NH Berm | 1 | 800.000 | 0.800 | 0.200 | | 128.000 |
| | PWD Berm | 1 | 600.000 | 0.800 | 0.200 | | 96.000 |
| | SH/NH CC | 1 | 400.000 | 0.800 | 0.350 | | 112.000 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity | |
|-------|---|----|---------|-------|-------|----|----------------|----------------|
| | SH/NH TC | 1 | 65.000 | 0.800 | 0.500 | | 26.000 | |
| | Total | | | | | | 362.000 | |
| | Total Quantity in cum | | | | | | | 362.000 |
| 4.002 | 4.2.A.1 | | | | | | | |
| | Construction of granular sub-base by providing graded material, spreading in uniform layers with a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method | | | | | | | |
| | GSB | | | | | | | |
| | SH/NH Berm | 1 | 800.000 | 0.800 | 0.200 | | 128.000 | |
| | PWD Berm | 1 | 600.000 | 0.800 | 0.200 | | 96.000 | |
| | SH/NH CC | 1 | 400.000 | 0.800 | 0.200 | | 64.000 | |
| | SH/NH TC | 1 | 65.000 | 0.800 | 0.200 | | 10.400 | |
| | Total | | | | | | 298.400 | |
| | Total Quantity in cum | | | | | | | 298.400 |
| 4.003 | 4.12 | | | | | | | |
| | Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. | | | | | | | |
| | WMM | | | | | | | |
| | SH/NH TC | 1 | 65.000 | 0.800 | 0.200 | | 10.400 | |
| | Total | | | | | | 10.400 | |
| | Total Quantity in cum | | | | | | | 10.400 |
| 4.004 | 5.1.a | | | | | | | |
| | Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means. | | | | | | | |
| | Primer Coat | | | | | | | |
| | primer coat | 1 | 65.000 | 1.500 | | | 97.500 | |
| | Total | | | | | | 97.500 | |
| | Total Quantity in sqm | | | | | | | 97.500 |
| 4.005 | 5.2.b | | | | | | | |
| | Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom. | | | | | | | |
| | Tack Coat | | | | | | | |
| | BMBC | 1 | 65.000 | 1.500 | | | 97.500 | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|---------|-------|-------|------------------------------|---------------|
| | Total | | | | | | 97.500 |
| | | | | | | Total Quantity in sqm | 97.500 |
| 4.006 | 5.3.2.a | | | | | | |
| | Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size) | | | | | | |
| | BM | | | | | | |
| | BM | 1 | 65.000 | 1.500 | 0.050 | | 4.875 |
| | Total | | | | | | 4.875 |
| | | | | | | Total Quantity in cum | 4.875 |
| 4.007 | 5.6.2.a | | | | | | |
| | Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder(NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size) | | | | | | |
| | BC | | | | | | |
| | | 1 | 65.000 | 1.500 | 0.030 | | 2.925 |
| | Total | | | | | | 2.925 |
| | | | | | | Total Quantity in cum | 2.925 |
| 4.008 | 5.8.a | | | | | | |
| | Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size | | | | | | |
| | Seal coat | | | | | | |
| | Premix | 1 | 25.000 | 1.000 | | | 25.000 |
| | Total | | | | | | 25.000 |
| | | | | | | Total Quantity in sqm | 25.000 |
| 4.009 | 12.4 | | | | | | |
| | Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. | | | | | | |
| | PCC | | | | | | |
| | SH CC | 1 | 400.000 | 0.800 | 0.100 | | 32.000 |
| | Total | | | | | | 32.000 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|------------------------------|--|----|---------|-------|-------|----|----------------|
| Total Quantity in cum | | | | | | | 32.000 |
| 4.010 | 12.8.B.1 | | | | | | |
| | Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20 | | | | | | |
| | RCC | | | | | | |
| | CC for restoration | 1 | 400.000 | 0.500 | 0.050 | | 10.000 |
| | Total | | | | | | 10.000 |
| Total Quantity in cum | | | | | | | 10.000 |
| 5 | Road Restoration Charges LSGD | | | | | | |
| 5.001 | 3.5.3 | | | | | | |
| | Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3 | | | | | | |
| | Excavation | | | | | | |
| | Tar road | 1 | 400.000 | 0.600 | 0.400 | | 96.000 |
| | Concrete road | 1 | 600.000 | 0.500 | 0.350 | | 105.000 |
| | Total | | | | | | 201.000 |
| Total Quantity in cum | | | | | | | 201.000 |
| 5.002 | 4.1.A.1 | | | | | | |
| | Granular Sub-base with Well Graded Material (Table 400.1) (A) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (i) For Grading I Material | | | | | | |
| | GSB | | | | | | |
| | Tar road | 1 | 400.000 | 0.600 | 0.200 | | 48.000 |
| | Concrete road | 1 | 600.000 | 0.500 | 0.200 | | 60.000 |
| | Total | | | | | | 108.000 |
| Total Quantity in cum | | | | | | | 108.000 |
| 5.003 | 4.9 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|---------|-------|-------|----|----------------|
| | Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead | | | | | | |
| | WBM | | | | | | |
| | Tar Road | 1 | 400.000 | 0.600 | 0.200 | | 48.000 |
| | Total | | | | | | 48.000 |
| | Total Quantity in cum | | | | | | 48.000 |
| 5.004 | 5.1.1a | | | | | | |
| | Prime Coat :- Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 | | | | | | |
| | prime coat | | | | | | |
| | Tar Road | 1 | 400.000 | 1.000 | | | 400.000 |
| | Total | | | | | | 400.000 |
| | Total Quantity in sqm | | | | | | 400.000 |
| 5.005 | 5.2.3a | | | | | | |
| | Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503. | | | | | | |
| | tack coat | | | | | | |
| | | 1 | 400.000 | 1.000 | | | 400.000 |
| | Total | | | | | | 400.000 |
| | Total Quantity in sqm | | | | | | 400.000 |
| 5.006 | 5.9.1.2a | | | | | | |
| | 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. Case - I By Manual Means (II) Bitumen (S-65) | | | | | | |
| | OGPC | | | | | | |
| | | 1 | 400.000 | 1.000 | | | 400.000 |
| | Total | | | | | | 400.000 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|----|----------------|-------|-------|----|----------------|
| | Total Quantity in sqm | | | | | | 400.000 |
| 5.007 | 5.12.A.3.2a | | | | | | |
| | Seal Coat - Manual Means - Type C - Bitumen S-65 Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A. By Manual Means :- Case - III : Type C (II) Bitumen (S-65) | | | | | | |
| | Seal coat | | | | | | |
| | | 1 | 400.000 | 1.000 | | | 400.000 |
| | Total | | | | | | 400.000 |
| | Total Quantity in sqm | | | | | | 400.000 |
| 5.008 | 11.4.3.1 | | | | | | |
| | Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 III. P.C.C. grade M 20 (i) Nominal mix (1:2:4) | | | | | | |
| | cement concrete | | | | | | |
| | | 1 | 600.000 | 0.500 | 0.150 | | 45.000 |
| | Total | | | | | | 45.000 |
| | Total Quantity in cum | | | | | | 45.000 |
| 6 | Construction of steel storage tank at Kuruvilacity | | | | | | |
| 6.001 | 2.31 | | | | | | |
| | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared | | | | | | |
| | Clearing jungle | | | | | | |
| | | 1 | 9.000 | 9.000 | | | 81.000 |
| | Total | | | | | | 81.000 |
| | Total Quantity in sqm | | | | | | 81.000 |
| 6.002 | 2.6.1 | | | | | | |
| | Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil | | | | | | |
| | For ring beam | | | | | | |
| | for ring beam | 1 | 3.14*5.82 6 | 0.450 | 0.450 | | 3.704 |
| | cutting and levelling | 1 | 9.000 | 9.000 | 0.750 | | 60.750 |
| | Total | | | | | | 64.454 |
| | Total Quantity in cum | | | | | | 64.454 |
| 6.003 | 4.1.8 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|-------|----------------|-------|-------|----------------|----------------|
| | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size) | | | | | | |
| | PCC 1:4:8 | | | | | | |
| | For ring beam | 1 | 3.14*5.82 6 | 0.450 | 0.200 | | 1.646 |
| | Total | | | | | | 1.646 |
| | Total Quantity in cum | | | | | | 1.646 |
| 6.004 | 5.2.2 | | | | | | |
| | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | | | | | | |
| | RCC 1:1.5:3 | | | | | | |
| | RCC 1:1.5:3 | 1 | 3.14*5.82 6 | 0.450 | 0.450 | | 3.704 |
| | Total | | | | | | 3.704 |
| | Total Quantity in cum | | | | | | 3.704 |
| 6.005 | 5.9.3 | | | | | | |
| | Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform | | | | | | |
| | Form work | | | | | | |
| | Outer area | 1 | 3.14*6.27 6 | | 0.450 | | 8.868 |
| | Inner area | 1 | 3.14*5.37 6 | | 0.450 | | 7.596 |
| | Total | | | | | | 16.464 |
| | Total Quantity in sqm | | | | | | 16.464 |
| 6.006 | 5.22.6 | | | | | | |
| | Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more | | | | | | |
| | @ 120 kg/cum | | | | | | |
| | | 3.704 | | | | 120.00 0000 | 444.480 |
| | Total | | | | | | 444.480 |
| | Total Quantity in kilogram | | | | | | 444.480 |
| 6.007 | OD124210/2022-2023 | | | | | | |
| | Supply of Sand including loading, unloading, transportation and other incidental charges as per the direction of departmental officers.1 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity | |
|-------|------------------------------|------|-----------------------|-------|-------|----|----------|--------------|
| | Sand filling | | | | | | | |
| | | 3.14 | $(5.376 * 5.376) / 2$ | | 0.150 | | 6.806 | |
| | Total | | | | | | | 6.806 |
| | Total Quantity in cum | | | | | | | 6.806 |
| 6.008 | OD124236/2022-2023 | | | | | | | |



| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|--------|-------|-------|----|----------|
| | <p>Supply, installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 1.52 LL(1Nos.) thickness of 0.6 mm, in multiple layers as required for the capacity and height of the tank and multiple layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets, outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains</p> <p>TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy-duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance</p> <p>TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts. LADDERS :Tanks shall be provided with Hotdip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened. The tank shall have a circular angle fixed around the total circumference of the tanks, at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service</p> <p>TANK DIMENSIONS: The dimensions of the Tank shall be of 5.826 m in diameter and 5.7 m in height</p> <p>DESIGN LIFE: The tanks shall have a design life of 40 years.</p> <p>TANK CONNECTIONS: Standard design valve outlet connection : i) Suitable Flanged valve ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity. One no. 100 mm, iii) One (1) scour drain outlet from the floor of the tank with isolation valve. One No. 100mm.</p> <p>TANK LINERS:Tank liners shall be purposedesigned and manufactured and shall comply to AS/NZS 4020 (Appendix A)of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be</p> | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|----|-----------|-------|-------|----|-----------|
| | <p>furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to onepiece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner welded lap joints shall be strengthened with Metallocene encapsulating tape welded over the overlap. vi) The Metallocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material)cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure CORROSSION PROTECTION. The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum steel&amp;39;,Cost for Poly ethylene infinity liner ,Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements,Cost for Fabricated items,attachments and accessories like steel ladder,Cost of Fabricated nozzles,over flow nozzles and drain arrangements, Cost for HDG nut and bolts,Freight Charges,Erection Installation and commissioning of tank components.</p> | | | | | | |
| | Steel tank | 1 | 152000.00 | | | | 152000.00 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|--------|-------|-------|--------------------------------|------------------|
| | Total | | | | | | 152000.00 |
| | | | | | | Total Quantity in Litre | 152000.00 |
| 7 | Demolition of existing GLSR at Kuruvilacity | | | | | | |
| 7.001 | 15.9.2 | | | | | | |
| | Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in- Charges:In cement mortar | | | | | | |
| | Demolishing stone rubble masonry | | | | | | |
| | Demolishing stone rubble masonry | 1 | 7.300 | 6.300 | 0.500 | | 22.995 |
| | Total | | | | | | 22.995 |
| | | | | | | Total Quantity in cum | 22.995 |
| 7.002 | 15.2.2 | | | | | | |
| | Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:4:8 leaner mix (including equivalent design mix) | | | | | | |
| | Demolishing cement concrete manually(pcc) | | | | | | |
| | Demolishing cement concrete manually | 1 | 7.300 | 6.300 | 0.200 | | 9.198 |
| | Total | | | | | | 9.198 |
| | | | | | | Total Quantity in cum | 9.198 |
| 7.003 | 15.60 | | | | | | |
| | Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved | | | | | | |
| | Disposal of building rubbish | | | | | | |
| | Disposal of building rubbish | 1 | 22.995 | | | | 22.995 |
| | Total | | | | | | 22.995 |
| | | | | | | Total Quantity in cum | 22.995 |
| 7.004 | 15.58 | | | | | | |
| | Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars. | | | | | | |
| | Demolishing R.C.C. work | | | | | | |
| | long walls | 2 | 7.300 | 3.000 | 0.200 | | 8.760 |
| | short walls | 2 | 6.300 | 3.000 | 0.200 | | 7.560 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|--------|-------|-------|----|----------------|
| | roof slab | 1 | 6.300 | 7.300 | 0.200 | | 9.198 |
| | Beam | 1 | 6.300 | 0.250 | 0.500 | | 0.788 |
| | Total | | | | | | 26.306 |
| | Total Quantity in cum | | | | | | 26.306 |
| 8 | Renovation of existing tank in kuruvilacity | | | | | | |
| 8.001 | 2.31 | | | | | | |
| | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared | | | | | | |
| | Clearing jungle | | | | | | |
| | Clearing jungle | 1 | 9.610 | 8.300 | | | 79.763 |
| | Total | | | | | | 79.763 |
| | Total Quantity in sqm | | | | | | 79.763 |
| 8.002 | 14.78 | | | | | | |
| | Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge. | | | | | | |
| | Cleaning of under ground sump | | | | | | |
| | Cleaning of base | 1 | 8.100 | 8.100 | | | 65.610 |
| | Cleaning of walls | 4 | 8.100 | 3.000 | | | 97.200 |
| | Total | | | | | | 162.810 |
| | Total Quantity in sqm | | | | | | 162.810 |
| 8.003 | 15.3 | | | | | | |
| | Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge. | | | | | | |
| | Demolishing R.C.C. work manually | | | | | | |
| | wall surface | 1 | 17.200 | 0.020 | 3.000 | | 1.032 |
| | for manholes | 4 | 0.300 | 0.300 | 0.200 | | 0.072 |
| | Total | | | | | | 1.104 |
| | Total Quantity in cum | | | | | | 1.104 |
| 8.004 | 5.21 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|--------|--------|-------|-------|------------------------------|----------------|
| | Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing or rolled steel sections in beams, columns and grillages excluding cost of hangers. | | | | | | |
| | Steel mesh for repairing concrete | | | | | | |
| | base | 1 | 8.100 | 8.100 | | | 65.610 |
| | wall | 4 | 8.100 | 3.000 | | | 97.200 |
| | Total | | | | | | 162.810 |
| | | | | | | Total Quantity in sqm | 162.810 |
| 8.005 | 5.9.2 | | | | | | |
| | Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc. | | | | | | |
| | Centring and shuttering | | | | | | |
| | wall | 4 | 8.025 | 3.000 | | | 96.300 |
| | Total | | | | | | 96.300 |
| | | | | | | Total Quantity in sqm | 96.300 |
| 8.006 | 5.33.2 | | | | | | |
| | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level | | | | | | |
| | | 1 | | | | | 1.000 |
| | base | 1 | 8.100 | 8.100 | 0.075 | | 4.921 |
| | wall | 4 | 8.100 | 3.000 | 0.075 | | 7.290 |
| | Total | | | | | | 13.211 |
| | | | | | | Total Quantity in cum | 13.211 |
| 8.007 | 5.34.1 | | | | | | |
| | Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum). | | | | | | |
| | for M30 | | | | | | |
| | 1 | 13.211 | | | | | 13.211 |
| | Total | | | | | | 13.211 |
| | | | | | | Total Quantity in cum | 13.211 |
| 8.008 | 13.4.1 | | | | | | |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|---|----|--------|-------|-------|-------|---------------|
| | 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand) | | | | | | |
| | 12 mm cement plaster | | | | | | |
| | 12 mm cement plaster | 4 | 8.025 | | | 3.000 | 96.300 |
| | Total | | | | | | 96.300 |
| | Total Quantity in sqm | | | | | | 96.300 |
| 8.009 | 22.22 | | | | | | |
| | Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc.. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. | | | | | | |
| | Admixture for Waterproofing | | | | | | |
| | 1 | 35 | | | | | 35.000 |
| | Total | | | | | | 35.000 |
| | Total Quantity in kg | | | | | | 35.000 |
| 8.010 | 13.43.1 | | | | | | |
| | Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer | | | | | | |
| | Applying one coat of water thinnable cement primer | | | | | | |
| | Applying one coat of water thinnable cement primer | 4 | 8.025 | | | 3.000 | 96.300 |
| | Total | | | | | | 96.300 |
| | Total Quantity in sqm | | | | | | 96.300 |
| 8.011 | 14.1.1 | | | | | | |
| | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 meters lead:With cement mortar 1:4 (1 cement : fine sand) | | | | | | |
| | Repair | | | | | | |
| | 12 mm cement plaster | 1 | 34.000 | | | 3.000 | 0.3000 00 |
| | Total | | | | | | 30.600 |

| SI No | Specification | No | Length | Width | Depth | Cf | Quantity |
|-------|--|-----|--------|-------|-------|----|----------------|
| | Total Quantity in sqm | | | | | | 30.600 |
| 8.012 | 13.44.1 | | | | | | |
| | Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm) | | | | | | |
| | Finishing walls with water proofing cement paint | | | | | | |
| | Finishing walls with water proofing cement paint | 1 | 51.600 | | | | 51.600 |
| | Total | | | | | | 51.600 |
| | Total Quantity in sqm | | | | | | 51.600 |
| 8.013 | 13.71 | | | | | | |
| | Lettering with black Japan pint of approved brand and manufacture | | | | | | |
| | Lettering with black Japan paint | | | | | | |
| | Lettering with black Japan paint | 150 | | | | | 150.000 |
| | Total | | | | | | 150.000 |
| | Total Quantity in per Letter per cm height | | | | | | 150.000 |

