

CHAPTER 27: DEEP TUBE-WELL

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
	Note: Tender for test & observation well must be called before hand. Tender for main production well will then be called on the basis of required data obtained from the test well. Requirements of water must be the guiding factor for dimensioning the main well.					
	SINKING OF 38 mm DIA TEST AND OBSERVATION WELL					
27.1	Mobilization of test boring or observation well: Transportation of materials, equipments, tools and plants and boring rig to work site. Construction of derrick and dismantling the same. Cleaning the site after completion of the work accepted by the Engineer-in-charge.	per set	Tk. 7,853.00	Tk. 7,853.00	Tk. 7,853.00	Tk. 7,853.00
27.2	Boring by using 100 mm dia cutter and 40 mm dia heavy type G.I pipe (wall thickness 2.9 mm, outside diameter min 47.8 mm, weight 3.517 kg/m, capable to withstand 50 kg/cm ² pressure) and other equipments capable of drilling up to a depth of 500 meter by water jet system through all sorts of soil strata providing protection of caving by supplying necessary casing pipe. Collection of soil samples at every 3 meter interval and at every change of soil strata and preserving them in a controlled environment for analysis and laboratory test. Finally, withdrawal of boring and casing pipes etc. complete and accepted by the Engineer-in-charge.					
27.2.1	From 0.0 m to 50 m = 50 m	meter	Tk. 196.00	Tk. 196.00	Tk. 196.00	Tk. 196.00
27.2.2	Above 50 m to 100 m = 50 m	meter	Tk. 226.00	Tk. 226.00	Tk. 226.00	Tk. 226.00
27.2.3	Above 100 m to 152 m = 52 m	meter	Tk. 260.00	Tk. 260.00	Tk. 260.00	Tk. 260.00
27.2.4	Above 152 m to 200 m = 48 m	meter	Tk. 299.00	Tk. 299.00	Tk. 299.00	Tk. 299.00
27.2.5	Above 200 m to 250 m = 50 m	meter	Tk. 343.00	Tk. 343.00	Tk. 343.00	Tk. 343.00
27.2.6	Beyond 250 m	meter	Tk. 395.00	Tk. 395.00	Tk. 395.00	Tk. 395.00
27.3	Installation of tube-well fixture for observation well: Supplying and lowering of 40/38 mm inside dia best quality uPVC pressure tube well pipe (specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm capable to withstand a minimum hydrostatic pressure of 170 psi for 1 hr). Fitting and fixing in position with all accessories, uPVC sand trap of length 3.00m with uPVC strainer of desired slot installing in or at mid depth of the most suitable water bearing strata, 38 mm dia. best quality G.I. pipe of length 1.52 m with M.S. welded flat bar welded on each side to prevent from rotation up to desired depth, fitting, fixing the best quality no. 6 C.I. head hand-pump etc including the cost of solvent cement, socket adapter, filling medium sand up to 18.00 m above strainer and the remaining portion with available soil from boring etc. complete as per standard specification and accepted by the Engineer-in-charge.					
27.3.1	Fitting & fixing of no. 6 Hand-pump set including all necessary accessories etc	per set	Tk. 3,460.00	Tk. 3,455.00	Tk. 3,436.00	Tk. 3,436.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
27.3.2	Supplying and fitting 38/40 mm dia heavy type G.I pipe conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe having wall thickness 2.9 mm, weight 3.517 kg/m capable to withstand 50 kg/cm ² hydraulic pressure	meter	Tk. 1,017.00	Tk. 1,013.00	Tk. 997.00	Tk. 997.00
27.3.3	38/40 mm dia water grade uPVC pipe having wall thickness 2.5 mm -3.00 mm	meter	Tk. 220.00	Tk. 219.00	Tk. 215.00	Tk. 215.00
27.3.4	38/40 mm dia water grade uPVC strainer having wall thickness 2.5 mm -3.00 mm	meter	Tk. 291.00	Tk. 289.00	Tk. 282.00	Tk. 282.00
27.3.5	38/40 mm dia uPVC socket adapter	each	Tk. 132.00	Tk. 131.00	Tk. 129.00	Tk. 129.00
27.3.6	Best quality 38 mm dia uPVC cap	each	Tk. 107.00	Tk. 107.00	Tk. 104.00	Tk. 104.00
27.3.7	Supplying, fitting & fixing tube-well log describing technical information of the tube-well	each	Tk. 5,006.00	Tk. 5,006.00	Tk. 5,006.00	Tk. 5,006.00
27.3.8	Filling the top 0.6 meter of the bore hole around the top pipe with sanitary seal of 1:2:4 (Cement: 1.2 FM sand: 20 mm downgraded brick chips) concrete	each	Tk. 60.00	Tk. 60.00	Tk. 59.00	Tk. 58.00
27.4	Complete development of the tube well to obtain sand and turbidity free water at a satisfactory yield confirmed by tests as per specification and accepted by the Engineer-in-charge. Water sample must be taken from 3 separate aquifers from three tube-wells					
27.4.1	Wells up to 200 meter depth					
27.4.1.1	For 1 No. test tube-well	each	Tk. 8,835.00	Tk. 8,835.00	Tk. 8,835.00	Tk. 8,835.00
27.4.1.2	For 2 Nos. test tube-wells	each	Tk. 13,253.00	Tk. 13,253.00	Tk. 13,253.00	Tk. 13,253.00
27.4.1.3	For 3 Nos. test tube-wells	each	Tk. 17,670.00	Tk. 17,670.00	Tk. 17,670.00	Tk. 17,670.00
27.4.2	Wells beyond 200 meter depth					
27.4.2.1	For 1 No. test tube-well	meter	Tk. 51.00	Tk. 51.00	Tk. 51.00	Tk. 51.00
27.4.2.2	For 2 Nos. test tube-wells	meter	Tk. 76.00	Tk. 76.00	Tk. 76.00	Tk. 76.00
27.4.2.3	For 3 Nos. test tube-wells	meter	Tk. 102.00	Tk. 102.00	Tk. 102.00	Tk. 102.00

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
27.5	*Furnishing design of a production well by testing of water and soil samples from test bores up to 350 m depth collecting samples of water from the best suitable aquifer, filling in sterilized air-tight glass bottles having no air space inside; collecting soil (sand, solids etc) at every 3 m interval and at each change of soil strata from the bores, arranging them in the cell of a box in an orderly manner. Carrying out test of water for (1) pH, (2) CO ₂ (3) Chloride, (4) Fluoride, (5) Iron, (6) Manganese, (7) Nitrate-Nitrogen, (8) Total alkalinity, (9) Total hardness, (10) Arsenic, (11) Turbidity, followed by test reports along with Bangladesh Standards of potable water and (12) sieve analysis on soils throughout a bore, leading to ascertain the best suitable sustained aquifers, depths and slot sizes of strainer, types and dia of tube well for specific yield, thickness of shrouding around strainer, fineness modulus of shrouding materials, mechanical units (pumps, compressor) for testing and operation of the tubement and its fabrication, binding and placing). of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixture should be placed in position fitted and fixed with heavy type C.I. brackets, 12 mm dia C.P. bib cock, 40 mm dia C.P. chain plug, 40 mm dia. C.P. waste, 32 mm dia PVC waste pipe wi					
	Total No. of test on water: 11 types of test x 1 test bore x one set sample (3 specimen) = 11 Nos. test (each specimen 1.5 liter of water)					
	Sieve analysis: min 9 Nos. Sample x one test x One bore = 9 Nos. test (Samples are of 1 kg dry wt.					
	There are about 55 (fifty-five) tests for potable water quality standard according to Bangladesh Environment Conservation Rules-12 (Schedule-3), 1997, under ECA 1995 of Ministry of Environment and Forest. Therefore, additional test/ tests on water or sieve analysis of soil if required, other than the above specified 12 (twelve) tests, may be carried out for public interest as per direction of the design engineer on actual payment including profit, VAT and all other charges.					
27.5.1	Furnishing design considering 1 No. test bore	LS	Tk. 37,670.00	Tk. 37,670.00	Tk. 37,670.00	Tk. 37,670.00
27.5.2	Furnishing design considering 2 Nos. test bores	LS	Tk. 73,267.00	Tk. 73,267.00	Tk. 73,267.00	Tk. 73,267.00
27.5.3	Furnishing design considering 3 Nos. test bores	LS	Tk. 109,901.00	Tk. 109,901.00	Tk. 109,901.00	Tk. 109,901.00
27.6	Disinfections of the well by using minimum 3 kg of bleaching powder of 33% strength or any other disinfectant as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 454.00	Tk. 454.00	Tk. 454.00	Tk. 454.00
	PRODUCTION WELL					
27.7	Mobilization: Preparation for installation of tube-well and transportation of complete boring equipments, labour and materials to the work site and remove the materials after completion of the works. Installation of drilling rig and accessories, making arrangements for electricity, water, labour shed, site office and stores, digging mud pit etc, leveling, dressing and clearing of the site as per original condition and a testing for discharge using minimum 1000 liter water tub etc. all complete as per specifications and accepted by the Engineer-in-charge.					
27.7.1	For Tube-wells up to 100 meter depth	per set	Tk. 47,977.00	Tk. 47,977.00	Tk. 47,977.00	Tk. 47,977.00
27.7.2	For Tube-wells up to 200 meter depth	per set	Tk. 51,404.00	Tk. 51,404.00	Tk. 51,404.00	Tk. 51,404.00
27.7.3	For Tube-wells beyond 200 meter depth	per set	Tk. 54,831.00	Tk. 54,831.00	Tk. 54,831.00	Tk. 54,831.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.8	Preparation and making gravel pack around the tube well fixtures with supply of designed graded pea gravels free from any substance harmful to pipe and health confirmed by test (Passing through #10 mesh and retained on #40 mesh) including sieving, washing etc. complete as per standard specification and accepted by the Engineer-in-charge. (The rate is inclusive of the cost of extra amount required for caving and extra depth below the tube well fixtures, shrouding should not be more than 15 m above the strainer and measurement should be allowed from bottom of the tube-well fixture to top of the gravel pack)	cum	Tk. 5,484.00	Tk. 5,468.00	Tk. 4,987.00	Tk. 4,987.00
27.9	Making a sanitary seal up to a minimum depth of 6 meter from G.L. or as specified including the supply of approved quality of cement, sand and khoa (12 mm down graded) in a ratio of (1:1:5:3) as per standard specification and accepted by the Engineer-in-charge.	cum	Tk. 9,527.00	Tk. 9,479.00	Tk. 9,366.00	Tk. 9,294.00
INSTALLATION OF 50 mm x 125 mm DIA SHROUDED						
PRODUCTION WELL WITH PVC PIPE						
27.10	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and with drawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.10.1	From 0.0 m to 50 m = 50 m	meter	Tk. 957.00	Tk. 957.00	Tk. 957.00	Tk. 957.00
27.10.2	From 50 m to 100 m = 50 m	meter	Tk. 1,101.00	Tk. 1,101.00	Tk. 1,101.00	Tk. 1,101.00
27.10.3	From 100 m to 152 m = 52 m	meter	Tk. 1,266.00	Tk. 1,266.00	Tk. 1,266.00	Tk. 1,266.00
27.10.4	From 152 m to 200 m = 48 m	meter	Tk. 1,456.00	Tk. 1,456.00	Tk. 1,456.00	Tk. 1,456.00
27.10.5	From 200 m to 250 m = 50 m	meter	Tk. 1,674.00	Tk. 1,674.00	Tk. 1,674.00	Tk. 1,674.00
27.10.6	Beyond 250 m	meter	Tk. 1,925.00	Tk. 1,925.00	Tk. 1,925.00	Tk. 1,925.00
27.11	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge. Note : Pipe size (Wall Thickness) will be chosen as per table page no:)					
27.11.1	Best quality 50 mm dia uPVC cap	each	Tk. 177.00	Tk. 176.00	Tk. 172.00	Tk. 172.00
27.11.2.1	50 mm dia water grade (Class D) uPVC blind pipe/sand trap of wall thickness 3.1 mm to 3.7 mm	meter	Tk. 263.00	Tk. 263.00	Tk. 259.00	Tk. 259.00
27.11.2.2	50 mm dia water grade (Class E) uPVC blind pipe/sand trap of wall thickness 3.9 mm to 4.5 mm	meter	Tk. 331.00	Tk. 330.00	Tk. 327.00	Tk. 327.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
27.11.3.1	50 mm dia strainer of any slot as per design made with grade(Class D) uPVC pipe of wall thickness 3.1 mm to 3.7 mm	meter	Tk. 353.00	Tk. 351.00	Tk. 341.00	Tk. 341.00
27.11.3.2	50 mm dia strainer of any slot as per design made with grade(Class E) uPVC pipe of wall thickness 3.9 mm to 4.5 mm	meter	Tk. 421.00	Tk. 418.00	Tk. 409.00	Tk. 409.00
27.11.4	Best quality 50 mm x 125 mm dia uPVC Reducer	meter	Tk. 1,096.00	Tk. 1,095.00	Tk. 1,091.00	Tk. 1,091.00
27.11.5.1	125mm dia water grade (Class D) uPVC housing pipe of wall thickness 7.3 to 8.4mm	meter	Tk. 1,283.00	Tk. 1,282.00	Tk. 1,279.00	Tk. 1,279.00
27.11.5.2	125mm dia water grade (Class E) uPVC housing pipe of wall thickness 9.0 to 10.4mm	meter	Tk. 1,517.00	Tk. 1,516.00	Tk. 1,512.00	Tk. 1,512.00
27.11.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.12	Complete installation of 50 mm dia uPVC tube well fixtures such as expanded top or furnishing pipe, reducer, tube well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and PVC tape, sockets and placing in position with proper size M.S. centralizer @ 3.0 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 105.00	Tk. 103.00	Tk. 99.00	Tk. 99.00
27.13	Complete development of the tube well by air compressor and pump of suitable capacity by alternate surging and pumping or any specified method until satisfactory yield is achieved in sand and turbid free water confirmed by laboratory test using necessary quantity of cologne and conducting step drawn-down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.13.1	Wells up to 200 m depth	each	Tk. 31,289.00	Tk. 31,289.00	Tk. 31,289.00	Tk. 31,289.00
27.13.2	Wells beyond 200 m depth	each	Tk. 39,633.00	Tk. 39,633.00	Tk. 39,633.00	Tk. 39,633.00
27.14	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	per hour	Tk. 873.00	Tk. 871.00	Tk. 859.00	Tk. 859.00
27.15	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) to obtain chlorinated water having 150 ppm free chlorine in the well complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 1,644.00	Tk. 1,644.00	Tk. 1,644.00	Tk. 1,644.00
27.16	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or by local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 45.00	Tk. 44.00	Tk. 41.00	Tk. 41.00
27.17	Protective top cover: Supplying and fitting fixing of best quality 150 mm dia 4 mm thick MS. Pipe 1.0 m (3'-4") long one end blocked with 200 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0") embedded in sanitary seal for protection of uPVC Housing Pipe as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 5,325.00	Tk. 5,313.00	Tk. 5,264.00	Tk. 5,264.00
INSTALLATION OF 75 mm x 150 mm DIA SHROUDED						

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
PRODUCTION WELL WITH PVC PIPE						
27.18	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.18.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,043.00	Tk. 1,043.00	Tk. 1,043.00	Tk. 1,043.00
27.18.2	From 50 m to 100 m = 50 m	meter	Tk. 1,199.00	Tk. 1,199.00	Tk. 1,199.00	Tk. 1,199.00
27.18.3	From 100 m to 152 m = 52 m	meter	Tk. 1,379.00	Tk. 1,379.00	Tk. 1,379.00	Tk. 1,379.00
27.18.4	From 152 m to 200 m = 48 m	meter	Tk. 1,586.00	Tk. 1,586.00	Tk. 1,586.00	Tk. 1,586.00
27.18.5	From 200 m to 250 m = 50 m	meter	Tk. 1,824.00	Tk. 1,824.00	Tk. 1,824.00	Tk. 1,824.00
27.18.6	Beyond 250 m	meter	Tk. 2,098.00	Tk. 2,098.00	Tk. 2,098.00	Tk. 2,098.00
27.19	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
27.19.1	Best quality 75 mm dia uPVC cap	each	Tk. 238.00	Tk. 237.00	Tk. 233.00	Tk. 233.00
27.19.2.1	75 mm dia water grade(Class D) uPVC blind pipe/sand trap of wall thickness 4.6 mm to 5.3 mm	meter	Tk. 523.00	Tk. 522.00	Tk. 518.00	Tk. 518.00
27.19.2.2	75 mm dia water grade(Class E) uPVC blind pipe/sand trap of wall thickness 5.7 mm to 6.6 mm	meter	Tk. 659.00	Tk. 658.00	Tk. 654.00	Tk. 654.00
27.19.3.1	75 mm dia strainer of any slot as per design made with water grade (Class D) uPVC pipe of wall thickness 4.6 mm to 5.3 mm	meter	Tk. 604.00	Tk. 601.00	Tk. 591.00	Tk. 591.00
27.19.3.2	75 mm dia strainer of any slot as per design made with water grade (Class E) uPVC pipe of wall thickness 5.7 mm to 6.6 mm	meter	Tk. 740.00	Tk. 737.00	Tk. 728.00	Tk. 728.00
27.19.4	Best quality 75 mm x 150 mm dia uPVC Reducer	each	Tk. 1,571.00	Tk. 1,570.00	Tk. 1,566.00	Tk. 1,566.00
27.19.5.1	150 mm dia water grade(Class D) uPVC housing pipe having wall thickness 8.8 mm to 10.2 mm	meter	Tk. 2,114.00	Tk. 2,113.00	Tk. 2,109.00	Tk. 2,109.00
27.19.5.2	150 mm dia water grade(Class E) uPVC housing pipe having wall thickness 10.8 mm to 12.5 mm	meter	Tk. 2,576.00	Tk. 2,575.00	Tk. 2,571.00	Tk. 2,571.00
27.19.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	meter	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.20	Complete installation of 75 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c .in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 112.00	Tk. 110.00	Tk. 107.00	Tk. 107.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.21	Complete development of the well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.21.1	Wells up to 200 m depth	each	Tk. 41,474.00	Tk. 41,474.00	Tk. 41,474.00	Tk. 41,474.00
27.21.2	Wells beyond 200 m depth	each	Tk. 49,768.00	Tk. 49,768.00	Tk. 49,768.00	Tk. 49,768.00
27.22	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer.	hour	Tk. 1,070.00	Tk. 1,068.00	Tk. 1,055.00	Tk. 1,055.00
27.23	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 1,997.00	Tk. 1,997.00	Tk. 1,997.00	Tk. 1,997.00
27.24	Filling of the bore-hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 54.00	Tk. 53.00	Tk. 50.00	Tk. 50.00
27.25	Protective top cover: Supplying and fitting fixing best quality 200 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long, one end blocked with 250 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0") embedded in sanitary seal for protection of uPVC housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 7,147.00	Tk. 7,129.00	Tk. 7,055.00	Tk. 7,055.00
INSTALLATION OF 100 mm x 200 mm DIA SHROUDED						
PRODUCTION WELL WITH PVC PIPE						
27.26	Boring: Execution of 400 mm dia of boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) Boring for 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.26.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,092.00	Tk. 1,092.00	Tk. 1,092.00	Tk. 1,092.00
27.26.2	From 50 m to 100 m = 50 m	meter	Tk. 1,256.00	Tk. 1,256.00	Tk. 1,256.00	Tk. 1,256.00
27.26.3	From 100 m to 152 m = 52 m	meter	Tk. 1,444.00	Tk. 1,444.00	Tk. 1,444.00	Tk. 1,444.00
27.26.4	From 152 m to 200 m = 48 m	meter	Tk. 1,661.00	Tk. 1,661.00	Tk. 1,661.00	Tk. 1,661.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.26.5	From 200 m to 250 m = 50 m	meter	Tk. 1,910.00	Tk. 1,910.00	Tk. 1,910.00	Tk. 1,910.00
27.26.6	Beyond 250 m	meter	Tk. 2,197.00	Tk. 2,197.00	Tk. 2,197.00	Tk. 2,197.00
27.27	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
27.27.1	Best quality 100 mm dia uPVC cap	each	Tk. 545.00	Tk. 544.00	Tk. 540.00	Tk. 540.00
27.27.2.1	100 mm dia water grade (Class D) uPVC blind pipe/ sand trap having wall thickness 6.0 mm to 6.9 mm	meter	Tk. 706.00	Tk. 705.00	Tk. 701.00	Tk. 701.00
27.27.2.2	100 mm dia water grade (Class E) uPVC blind pipe/ sand trap having wall thickness 7.3 mm to 8.4 mm	meter	Tk. 1,025.00	Tk. 1,024.00	Tk. 1,020.00	Tk. 1,020.00
27.27.3.1	100 mm dia strainer of any slot as per design made with water grade(Class D) uPVC pipe having wall thickness 6.0 mm to 6.9 mm	meter	Tk. 787.00	Tk. 784.00	Tk. 774.00	Tk. 774.00
27.27.3.2	100 mm dia strainer of any slot as per design made with water grade(Class E) uPVC pipe having wall thickness 7.3 mm to 8.4 mm	meter	Tk. 1,106.00	Tk. 1,103.00	Tk. 1,093.00	Tk. 1,093.00
27.27.4	Best quality 100 mm x 200 mm dia uPVC reducer	each	Tk. 2,324.00	Tk. 2,323.00	Tk. 2,319.00	Tk. 2,319.00
27.27.5.1	200 mm dia water grade (Class D) uPVC housing pipe having wall thickness 10.3 mm to 11.9 mm	meter	Tk. 3,180.00	Tk. 3,179.00	Tk. 3,176.00	Tk. 3,176.00
27.27.5.2	200 mm dia water grade(Class E) uPVC housing pipe having wall thickness 12.6 mm to 14.8 mm	meter	Tk. 3,826.00	Tk. 3,825.00	Tk. 3,821.00	Tk. 3,821.00
27.27.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.28	Complete installation of 100 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c. in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 133.00	Tk. 131.00	Tk. 126.00	Tk. 126.00
27.29	Complete development of the tube-well by air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield of sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.29.1	Wells up to 200 m depth	each	Tk. 50,922.00	Tk. 50,922.00	Tk. 50,922.00	Tk. 50,922.00
27.29.2	Wells beyond 200 m depth	each	Tk. 61,106.00	Tk. 61,106.00	Tk. 61,106.00	Tk. 61,106.00
27.30	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	Tk. 1,123.00	Tk. 1,120.00	Tk. 1,107.00	Tk. 1,107.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.31	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 2,349.00	Tk. 2,349.00	Tk. 2,349.00	Tk. 2,349.00
27.32	Filling of the borehole around the tube-well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 61.00	Tk. 60.00	Tk. 56.00	Tk. 56.00
27.33	Protective top cover: Supplying and fitting fixing best quality 250 mm dia 4 mm thick M.S. pipe, 1.0 m (3'-4") long one, end blocked with 300 mm dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 11,741.00	Tk. 11,711.00	Tk. 11,588.00	Tk. 11,588.00
INSTALLATION OF 150 mm x 200 mm & 150 mm x 250 mm DIA SHROUDED PRODUCTION WELL WITH uPVC PIPE						
27.34	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
27.34.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,374.00	Tk. 1,374.00	Tk. 1,374.00	Tk. 1,374.00
27.34.2	From 50 m to 100 m = 50 m	meter	Tk. 1,580.00	Tk. 1,580.00	Tk. 1,580.00	Tk. 1,580.00
27.34.3	From 100 m to 152 m = 52 m	meter	Tk. 1,817.00	Tk. 1,817.00	Tk. 1,817.00	Tk. 1,817.00
27.34.4	From 152 m to 200 m = 48 m	meter	Tk. 2,090.00	Tk. 2,090.00	Tk. 2,090.00	Tk. 2,090.00
27.34.5	From 200 m to 250 m = 50 m	meter	Tk. 2,404.00	Tk. 2,404.00	Tk. 2,404.00	Tk. 2,404.00
27.34.6	Beyond 250 m	meter	Tk. 2,764.00	Tk. 2,764.00	Tk. 2,764.00	Tk. 2,764.00
27.35	Supplying the following tube well fixtures and pipes having density 1350 kg/m ³ , opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
27.35.1	Best quality 150 mm dia uPVC cap for blind pipe/ sand trap.	each	Tk. 1,144.00	Tk. 1,143.00	Tk. 1,139.00	Tk. 1,139.00
27.35.2.1	150 mm dia water grade(Class D) uPVC blind pipe/ sand trap having wall thickness 8.8 mm to 10.2 mm	meter	Tk. 1,816.00	Tk. 1,815.00	Tk. 1,811.00	Tk. 1,811.00
27.35.2.2	150 mm dia water grade(Class E) uPVC blind pipe/ sand trap having wall thickness 10.8 mm to 12.5 mm	meter	Tk. 2,212.00	Tk. 2,211.00	Tk. 2,207.00	Tk. 2,207.00
27.35.3.1	150 mm dia strainer of any slot as per design, made with water grade(Class D) uPVC pipe of wall thickness 8.8 to 10.2 mm	meter	Tk. 1,917.00	Tk. 1,914.00	Tk. 1,903.00	Tk. 1,903.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
27.35.3.2	150 mm dia strainer of any slot as per design made with water grade(Class E) uPVC pipe of wall thickness 10.8 to 12.5 mm	meter	Tk. 2,314.00	Tk. 2,311.00	Tk. 2,299.00	Tk. 2,299.00
27.35.4.1	Best quality 150 mm x 200 mm dia uPVC Reducer	each	Tk. 2,531.00	Tk. 2,530.00	Tk. 2,525.00	Tk. 2,525.00
27.35.4.2	Best quality 150 mm x 250 mm dia uPVC Reducer	each	Tk. 3,749.00	Tk. 3,747.00	Tk. 3,742.00	Tk. 3,742.00
27.35.5.1	200 mm dia water grade(Class D) uPVC housing pipe of wall thickness 10.3 mm to 11.9 mm	meter	Tk. 3,180.00	Tk. 3,179.00	Tk. 3,176.00	Tk. 3,176.00
27.35.5.2	200 mm dia water grade(Class E) uPVC housing pipe of wall thickness 12.6 mm to 14.8 mm	meter	Tk. 3,826.00	Tk. 3,825.00	Tk. 3,821.00	Tk. 3,821.00
27.35.5.3	250 mm dia water grade(Class D) uPVC housing pipe of wall thickness 12.8 mm to 14.8 mm	meter	Tk. 4,410.00	Tk. 4,409.00	Tk. 4,405.00	Tk. 4,405.00
27.35.5.4	250 mm dia water grade(Class E) uPVC housing pipe of wall thickness 15.7 mm to 18.1 mm	meter	Tk. 5,870.00	Tk. 5,869.00	Tk. 5,865.00	Tk. 5,865.00
27.35.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design	meter	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.36	Complete installation of 150 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 129.00	Tk. 127.00	Tk. 124.00	Tk. 124.00
27.37	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.37.1	Wells up to 200 m depth	each	Tk. 60,861.00	Tk. 60,861.00	Tk. 60,861.00	Tk. 60,861.00
27.37.2	Wells beyond 200 m depth	each	Tk. 68,975.00	Tk. 68,975.00	Tk. 68,975.00	Tk. 68,975.00
27.38	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	Tk. 1,275.00	Tk. 1,272.00	Tk. 1,259.00	Tk. 1,259.00
27.39	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 2,819.00	Tk. 2,819.00	Tk. 2,819.00	Tk. 2,819.00
27.40	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay as free from any substances harmful to pipes and health per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 85.00	Tk. 83.00	Tk. 78.00	Tk. 78.00
27.41	Protective top cover: Supplying fitting and fixing of best quality 250 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long one end blocked with 300 dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 10,956.00	Tk. 10,925.00	Tk. 10,803.00	Tk. 10,803.00
	INSTALLATION OF 150 mm x 300 mm DIA SHROUDED					

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
	PRODUCTION WELL WITH G.I. PIPE					
27.42	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.42.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,374.00	Tk. 1,374.00	Tk. 1,374.00	Tk. 1,374.00
27.42.2	From 50 m to 100 m = 50 m	meter	Tk. 1,580.00	Tk. 1,580.00	Tk. 1,580.00	Tk. 1,580.00
27.42.3	From 100 m to 152 m = 52 m	meter	Tk. 1,817.00	Tk. 1,817.00	Tk. 1,817.00	Tk. 1,817.00
27.42.4	From 152 m to 200 m = 48 m	meter	Tk. 2,090.00	Tk. 2,090.00	Tk. 2,090.00	Tk. 2,090.00
27.42.5	From 200 m to 250 m = 50 m	meter	Tk. 2,404.00	Tk. 2,404.00	Tk. 2,404.00	Tk. 2,404.00
27.42.6	Beyond 250 m	meter	Tk. 2,764.00	Tk. 2,764.00	Tk. 2,764.00	Tk. 2,764.00
27.43	Supplying the following tube well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.43.1	150 mm dia M.S. cap 6 mm thick for blind pipe/sand trap	each	Tk. 1,551.00	Tk. 1,550.00	Tk. 1,546.00	Tk. 1,546.00
27.43.2	150 mm dia G.I. Pipe having wall thickness 5.4 mm, weight 21.2 kg/m can withstand 50 kg/ cm2 hydraulic pressure for blind pipe/sand trap	meter	Tk. 3,788.00	Tk. 3,785.00	Tk. 3,773.00	Tk. 3,773.00
27.43.3	150 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
27.43.3.1	Stainless steel strainer of continuous slot having weight 28.84 kg per meter.	meter	Tk. 18,358.00	Tk. 18,356.00	Tk. 18,346.00	Tk. 18,346.00
27.43.3.2	2.50 mm thick stainless steel Bridge type strainer.	meter	Tk. 13,947.00	Tk. 13,944.00	Tk. 13,935.00	Tk. 13,935.00
27.43.4	150 mm x 300 mm dia M.S. reducer of minimum thickness of 6 mm.	each	Tk. 3,307.00	Tk. 3,301.00	Tk. 3,276.00	Tk. 3,276.00
27.43.5	300 mm dia 6 mm minimum thick M.S. housing pipe (Seamless)	meter	Tk. 10,460.00	Tk. 10,454.00	Tk. 10,430.00	Tk. 10,430.00
27.43.6	Centralizer made with 12 mm dia M.S. rod of approved design.	each	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.43.7	350 mm dia M.S. cap having 6 mm thick for housing pipe covering.	each	Tk. 3,509.00	Tk. 3,495.00	Tk. 3,436.00	Tk. 3,436.00
27.44	Complete installation of 150 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 805.00	Tk. 790.00	Tk. 732.00	Tk. 732.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.45	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
27.45.1	Wells up to 200 m depth	each	Tk. 60,861.00	Tk. 60,861.00	Tk. 60,861.00	Tk. 60,861.00
27.45.2	Wells beyond 200 m depth	each	Tk. 68,975.00	Tk. 68,975.00	Tk. 68,975.00	Tk. 68,975.00
27.46	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	Tk. 1,316.00	Tk. 1,313.00	Tk. 1,300.00	Tk. 1,300.00
27.47	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 2,877.00	Tk. 2,877.00	Tk. 2,877.00	Tk. 2,877.00
27.48	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 85.00	Tk. 83.00	Tk. 78.00	Tk. 78.00
INSTALLATION OF 200 mm x 400 mm DIA SHROUDED						
PRODUCTION WELL WITH G.I. PIPE						
27.49	Boring: Execution of 800 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). For boring 800 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is required for caving and siltation)					
27.49.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,546.00	Tk. 1,546.00	Tk. 1,546.00	Tk. 1,546.00
27.49.2	From 50 m to 100 m = 50 m	meter	Tk. 1,778.00	Tk. 1,778.00	Tk. 1,778.00	Tk. 1,778.00
27.49.3	From 100 m to 152 m = 52 m	meter	Tk. 2,045.00	Tk. 2,045.00	Tk. 2,045.00	Tk. 2,045.00
27.49.4	From 152 m to 200 m = 48 m	meter	Tk. 2,351.00	Tk. 2,351.00	Tk. 2,351.00	Tk. 2,351.00
27.49.5	From 200 m to 250 m = 50 m	meter	Tk. 2,704.00	Tk. 2,704.00	Tk. 2,704.00	Tk. 2,704.00
27.49.6	Beyond 250 m	meter	Tk. 3,110.00	Tk. 3,110.00	Tk. 3,110.00	Tk. 3,110.00

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.50	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.50.1	200 mm dia M.S. cap 6mm thick for blind pipe/ sand strap	each	Tk. 1,968.00	Tk. 1,967.00	Tk. 1,963.00	Tk. 1,963.00
27.50.2	200 mm dia 6 mm thick tube well pipe and blank G.I. pipe of wt. 33.45 kg per meter can withstand minimum 700 psi hydraulic pressure.	meter	Tk. 7,776.00	Tk. 7,773.00	Tk. 7,761.00	Tk. 7,761.00
27.50.3	200 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	meter				
27.50.3.1	200 mm dia stainless steel strainer of continuous slot having 38.36 kg per meter.	meter	Tk. 21,948.00	Tk. 21,945.00	Tk. 21,933.00	Tk. 21,933.00
27.50.3.2	200 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	Tk. 14,587.00	Tk. 14,584.00	Tk. 14,572.00	Tk. 14,572.00
27.50.4	200 mm x 400 mm dia 6 mm thick M.S. reducer.	each	Tk. 3,374.00	Tk. 3,369.00	Tk. 3,350.00	Tk. 3,350.00
27.50.5	400 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	Tk. 14,510.00	Tk. 14,503.00	Tk. 14,479.00	Tk. 14,479.00
27.50.6	Centralizer made with 12 mm dia M.S. rod of approved design	each	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.50.7	450 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	Tk. 785.00	Tk. 773.00	Tk. 724.00	Tk. 724.00
27.51	Complete installation of 200 mm dia deep tube well fixtures such as expanded top pipes, reducer, and tube well pipes, strainer, blind pipe. pipe cap etc. Fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer position including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	Tk. 879.00	Tk. 863.00	Tk. 799.00	Tk. 799.00
27.52	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding).					
27.52.1	Wells up to 200 m depth	each	Tk. 57,793.00	Tk. 57,793.00	Tk. 57,793.00	Tk. 57,793.00
27.52.2	Wells beyond 200 m depth	each	Tk. 64,592.00	Tk. 64,592.00	Tk. 64,592.00	Tk. 64,592.00
27.53	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	Tk. 1,361.00	Tk. 1,359.00	Tk. 1,346.00	Tk. 1,346.00
27.54	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 3,288.00	Tk. 3,288.00	Tk. 3,288.00	Tk. 3,288.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.55	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 85.00	Tk. 83.00	Tk. 78.00	Tk. 78.00
	INSTALLATION OF 50 mm x 150 mm DIA SHROUDED PRODUCTION WELL WITH G.I. PIPE					
27.56	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.56.1	From 0.0 m to 50 m = 50 m	meter	Tk. 957.00	Tk. 957.00	Tk. 957.00	Tk. 957.00
27.56.2	From 50 m to 100 m = 50 m	meter	Tk. 1,101.00	Tk. 1,101.00	Tk. 1,101.00	Tk. 1,101.00
27.56.3	From 100 m to 152 m = 52 m	meter	Tk. 1,266.00	Tk. 1,266.00	Tk. 1,266.00	Tk. 1,266.00
27.56.4	From 152 m to 200 m = 48 m	meter	Tk. 1,456.00	Tk. 1,456.00	Tk. 1,456.00	Tk. 1,456.00
27.56.5	From 200 m to 250 m = 50 m	meter	Tk. 1,674.00	Tk. 1,674.00	Tk. 1,674.00	Tk. 1,674.00
27.56.6	Beyond 250 m	meter	Tk. 1,925.00	Tk. 1,925.00	Tk. 1,925.00	Tk. 1,925.00
27.57	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.57.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap.	each	Tk. 1,551.00	Tk. 1,550.00	Tk. 1,546.00	Tk. 1,546.00
27.57.2	50 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe	meter	Tk. 1,175.00	Tk. 1,172.00	Tk. 1,160.00	Tk. 1,160.00
27.57.3	50 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	meter				
27.57.3.1	50 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	Tk. 7,388.00	Tk. 7,386.00	Tk. 7,376.00	Tk. 7,376.00
27.57.3.2	50 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	Tk. 7,388.00	Tk. 7,386.00	Tk. 7,376.00	Tk. 7,376.00
27.57.4	50 mm x 150 mm dia 6 mm thick M.S. reducer.	each	Tk. 1,350.00	Tk. 1,344.00	Tk. 1,319.00	Tk. 1,319.00
27.57.5	150 mm dia 6 mm thick M.S. housing pipe (Seamless).	meter	Tk. 5,061.00	Tk. 5,055.00	Tk. 5,031.00	Tk. 5,031.00
27.57.6	Centralizer made with 12 mm dia M.S. rod of approved design.	each	Tk. 500.00	Tk. 497.00	Tk. 487.00	Tk. 487.00
27.57.7	150 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	Tk. 2,307.00	Tk. 2,292.00	Tk. 2,233.00	Tk. 2,233.00

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.58	Complete installation of 50 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including, blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge	meter	Tk. 805.00	Tk. 790.00	Tk. 732.00	Tk. 732.00
27.59	Compete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
27.59.1	Wells up to 200 m depth	each	Tk. 31,289.00	Tk. 31,289.00	Tk. 31,289.00	Tk. 31,289.00
27.59.2	Wells beyond 200 m depth	each	Tk. 35,461.00	Tk. 35,461.00	Tk. 35,461.00	Tk. 35,461.00
27.60	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	Tk. 1,078.00	Tk. 1,076.00	Tk. 1,064.00	Tk. 1,064.00
27.61	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	Tk. 1,644.00	Tk. 1,644.00	Tk. 1,644.00	Tk. 1,644.00
27.62	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 48.00	Tk. 47.00	Tk. 44.00	Tk. 44.00
INSTALLATION OF 75 mm x 150 mm DIA SHROUDED						
PRODUCTION WELL WITH G.I. PIPE						
27.63	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.63.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,043.00	Tk. 1,043.00	Tk. 1,043.00	Tk. 1,043.00
27.63.2	From 50 m to 100 m = 50 m	meter	Tk. 1,199.00	Tk. 1,199.00	Tk. 1,199.00	Tk. 1,199.00
27.63.3	From 100 m to 152 m = 52 m	meter	Tk. 1,379.00	Tk. 1,379.00	Tk. 1,379.00	Tk. 1,379.00
27.63.4	From 152 m to 200 m = 48 m	meter	Tk. 1,586.00	Tk. 1,586.00	Tk. 1,586.00	Tk. 1,586.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Gopalganj) (Khulna, Barisal, Rangpur)
27.63.5	From 200 m to 250 m = 50 m	meter	TK. 1,824.00	TK. 1,824.00	TK. 1,824.00
27.63.6	Beyond 250 m	meter	TK. 2,098.00	TK. 2,098.00	TK. 2,098.00
27.64	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorus 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.				
27.64.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap.	each	TK. 1,398.00	TK. 1,397.00	TK. 1,394.00
27.64.2	75 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe	meter	TK. 1,729.00	TK. 1,728.00	TK. 1,724.00
27.64.3	75 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	meter			
27.64.3.1	75 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	TK. 9,966.00	TK. 9,963.00	TK. 9,951.00
27.64.3.2	75 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	TK. 9,900.00	TK. 9,897.00	TK. 9,885.00
27.64.4	75 mm x 150 mm dia 6 mm thick M.S. reducer.	meter	TK. 1,350.00	TK. 1,344.00	TK. 1,319.00
27.64.6	150 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	TK. 5,061.00	TK. 5,055.00	TK. 5,031.00
27.64.7	Centralizer made with 12 mm dia M.S. rod of approved design	each	TK. 500.00	TK. 497.00	TK. 487.00
27.64.8	150 mm dia M.S. cap of 6 mm thick for housing pipe covering.	meter	TK. 2,307.00	TK. 2,292.00	TK. 2,233.00
27.65	Complete installation of 75 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge.	meter	TK. 771.00	TK. 758.00	TK. 702.00
27.66	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of caisson and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding).				
27.66.1	Wells up to 200 m depth	each	TK. 41,474.00	TK. 41,474.00	TK. 41,474.00
27.66.2	Wells beyond 200 m depth	each	TK. 47,003.00	TK. 47,003.00	TK. 47,003.00
27.67	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge.	hour	TK. 1,202.00	TK. 1,199.00	TK. 1,186.00
27.68	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge.	each	TK. 1,997.00	TK. 1,997.00	TK. 1,997.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.69	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge.	meter	Tk. 56.00	Tk. 54.00	Tk. 51.00	Tk. 51.00
	INSTALLATION OF 100 mm x 200 mm DIA SHROUDED					
	PRODUCTION WELL WITH G.I. PIPE					
27.70	Boring: Execution of 400 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
27.70.1	From 0.0 m to 50 m = 50 m	meter	Tk. 1,092.00	Tk. 1,092.00	Tk. 1,092.00	Tk. 1,092.00
27.70.2	From 50 m to 100 m = 50 m	meter	Tk. 1,256.00	Tk. 1,256.00	Tk. 1,256.00	Tk. 1,256.00
27.70.3	From 100 m to 152 m = 52 m	meter	Tk. 1,444.00	Tk. 1,444.00	Tk. 1,444.00	Tk. 1,444.00
27.70.4	From 152 m to 200 m = 48 m	meter	Tk. 1,661.00	Tk. 1,661.00	Tk. 1,661.00	Tk. 1,661.00
27.70.5	From 200 m to 250 m = 50 m	meter	Tk. 1,910.00	Tk. 1,910.00	Tk. 1,910.00	Tk. 1,910.00
27.70.6	Beyond 250 m	meter	Tk. 2,197.00	Tk. 2,197.00	Tk. 2,197.00	Tk. 2,197.00
27.71	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: minimum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
27.71.1	Supplying 150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap.	each	Tk. 1,551.00	Tk. 1,550.00	Tk. 1,546.00	Tk. 1,546.00
27.71.2	Supplying 100 mm dia 6 mm thick tube well pipe and blank G.I. pipe	meter	Tk. 2,596.00	Tk. 2,593.00	Tk. 2,581.00	Tk. 2,581.00
27.71.3	100 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	meter				
27.71.3.1	Supplying 100 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter.	meter	Tk. 11,042.00	Tk. 11,042.00	Tk. 11,041.00	Tk. 11,041.00
27.71.3.2	Supplying 100 mm dia 2.5 mm thick stainless steel bridge type strainer	meter	Tk. 8,550.00	Tk. 8,547.00	Tk. 8,535.00	Tk. 8,535.00
27.71.4	Supplying 100 mm x 200 mm dia 6 mm thick M.S. reducer.	each	Tk. 1,620.00	Tk. 1,615.00	Tk. 1,595.00	Tk. 1,595.00
27.71.5	Supplying 200 mm dia 6 mm thick M.S. housing pipe (Seamless)	meter	Tk. 5,258.00	Tk. 5,252.00	Tk. 5,227.00	Tk. 5,227.00
27.71.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design	each	Tk. 316.00	Tk. 313.00	Tk. 303.00	Tk. 303.00
27.71.7	Supplying 200 mm dia M.S. cap of 6 mm thick for housing pipe covering.	each	Tk. 2,773.00	Tk. 2,773.00	Tk. 2,712.00	Tk. 2,712.00

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Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalgonj)	Unit Rate (Rajshahi, Rangpur)
27.72	Complete installation of 100 mm dia deep tube-well fixtures such as expanded top pipes, reducer, and tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge	meter	Tk. 742.00	Tk. 732.00	Tk. 692.00	Tk. 692.00
27.73	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
27.73.1	Wells up to 200 m depth	each	Tk. 50,922.00	Tk. 50,922.00	Tk. 50,922.00	Tk. 50,922.00
27.73.2	Wells beyond 200 m depth	each	Tk. 57,711.00	Tk. 57,711.00	Tk. 57,711.00	Tk. 57,711.00
27.74	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge	hour	Tk. 1,248.00	Tk. 1,245.00	Tk. 1,232.00	Tk. 1,232.00
27.75	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge	each	Tk. 2,349.00	Tk. 2,349.00	Tk. 2,349.00	Tk. 2,349.00
27.76	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge	meter	Tk. 63.00	Tk. 61.00	Tk. 58.00	Tk. 58.00
	INSTALLATION OF 40 MM DIA uPVC HAND TUBE WEL					
27.77	Supplying and sinking of 40 mm dia water grade uPVC tube well pipe having wall thickness 2.5 mm to 3.0 mm including trial boring and with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
27.77.1	40 mm dia pipe up to 60 m depth	meter	Tk. 278.00	Tk. 274.00	Tk. 258.00	Tk. 258.00
27.77.2	40 mm dia pipe beyond 60 m depth	meter	Tk. 493.00	Tk. 487.00	Tk. 463.00	Tk. 463.00
27.78	Supplying and sinking of 3 m long uPVC strainer with all necessary fittings as required etc. complete and accepted by the Engineer-in-charge.	each	Tk. 702.00	Tk. 698.00	Tk. 683.00	Tk. 683.00
27.79	Supplying, fitting and fixing of No. 6 pump for 40 mm dia tube well with all necessary fittings including 0.61 m long 40 mm dia G.I. Pipe etc. all complete as per accepted by the Engineer-in-charge.	each	Tk. 4,167.00	Tk. 4,167.00	Tk. 4,167.00	Tk. 4,167.00

Item No.	Description of Item	Unit	Unit Rate (Dhaka, Mymensingh)	Unit Rate (Chattogram, Sylhet)	Unit Rate (Khulna, Barisal, Gopalganj)	Unit Rate (Rajshahi, Rangpur)
27.80	Construction of platform of size 1.4 m x 1.0 m and outlet drain up to 1 meter long, as per drawing with 75 mm thick cement concrete of f _c min 17 MPa with brick chips and cement content relates to 1:2:4, over a brick flat soling and providing 125 mm x 75mm brick band in 1:6 all around, including finished with 12 mm thick cement plaster in 1:4 followed by neat cement finishing all complete and accepted by the Engineer-in-charge.	each	Tk. 6,160.00	Tk. 6,139.00	Tk. 5,944.00	Tk. 5,894.00
DEEP SET HAND OPERATED TUBE WELL						
27.81	Supplying and sinking uPVC, tube well pipe, uPVC strainer including trial boring with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
27.81.1	50 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm	meter	Tk. 584.00	Tk. 580.00	Tk. 564.00	Tk. 564.00
27.81.2	40 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm	meter	Tk. 382.00	Tk. 378.00	Tk. 362.00	Tk. 362.00
27.81.3	40 mm dia uPVC strainer 3.0 m long	each	Tk. 702.00	Tk. 698.00	Tk. 683.00	Tk. 683.00
27.82	Supplying, fitting and fixing of deep set tube well pump (Hand set) with all necessary fittings as required such as No. 6 pump, 50 mm dia G.I. pipe 0.61 m long, 50 mm x 40 mm reducing socket, 40 mm dia pipe Nipple 1.22 m long cylinder, tie foot ball, tie plunger, 3 Nos. 10 mm dia sockets, 4 Nos. 10mm dia nuts, 5 Nos. end threaded 10 mm dia M.S. rod 3 m long, necessary quantity of solution and tape etc. complete and accepted by the Engineer-in-charge.	each	Tk. 8,248.00	Tk. 8,224.00	Tk. 8,126.00	Tk. 8,126.00
..... END OF CHAPTER TWENTY SEVEN						

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